

GORDIAN[®]

Job Order Contract Construction Task Catalog[®]

CSI Divisions 01-50 2024

**County of Monterey
Roads and Bridges**



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **County of Monterey**, priced locally using current labor, material and equipment costs, and published in May 2024.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of Monterey**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



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The Unit Prices Include:

LABOR COSTS:

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

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

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

General Rules:

- Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the Task as described in the CTC.
- All labor, material, equipment, spare parts, and documents required by a Technical Specification shall be considered included in the unit price, unless the Task description states otherwise.
- If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or

other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the Contractor will be paid for such crane or lifting equipment as a separate Task.

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

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and

transporting the demolished items up or down 2 stories into a truck, dumpster, or to an Owner designated area, located within 125' of the project site.

- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a separate demolition Task, unless the component must be demolished separately to accomplish the work (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the work; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).
- ☑ The word "replace" includes removal of the existing item and installation of the new item.
- ☑ The words "remove and relocate" or "remove and reinstall" include removal, cleaning, and installation of the existing item in either the same location or another location.
- ☑ Salvageable materials are the property of the Owner and shall, if directed, be turned over to the Owner.

WORKING HEIGHT:

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

FIELD ENGINEERING:

- ☑ Surveying Tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the

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Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate Tasks.

ASSEMBLIES:

- ☑ Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot or Gross Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** - Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** –

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170
Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

BULK FACTORS FOR DEMOLITION:

- The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.
 - Asphalt** = 1.25
 - Concrete** = 1.40

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

Using The Construction Task Catalog®

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

- Job Order Contracting Advanced, Job Order Contracting Complete, Job Order Contracting



General Requirements	01	10
Summary	01 10	
Summary Of Work	01 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 10 Summary ⁽⁰¹⁾

01 11 Summary Of Work ^(01 10)

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

Note: For specification publishing. Review specifications for requirements.

01 11 13 00-001 NTE Work Covered by Contract Documents 0.00

Note: For specification publishing. Review specifications for requirements.

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-001 Negotiated Travel Costs ^(01 22 16)

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

01 22 16 00-002 EA Negotiated Travel Costs 1.00

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

01 22 16 00-003 Reimbursable Fees ^(01 22 16)

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

01 22 16 00-004 EA Reimbursable Fees 1.00

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

01 22 20 Wage Rates ^(01 22)

01 22 20 00-001 Local Labor/Wage Rates ^(01 22 20)

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

01 22 20 00-002 HR Asbestos Removal Worker 91.93

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

For Foreperson, Add 4.60

For Apprentice, Deduct -18.39

01 22 20 00-003 HR Brick Layer 108.51

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

For Foreperson, Add 5.43

For Apprentice, Deduct -21.70

01 22 20 00-004 HR Carpenter 125.96

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

For Foreperson, Add 6.30

For Apprentice, Deduct -25.19

01 22 20 00-005 HR Carpenter, Bridge Builder 141.38

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

For Foreperson, Add 7.07

For Apprentice, Deduct -28.28

01 22 20 00-006 HR Cement Mason 95.77

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

For Foreperson, Add 4.79

For Apprentice, Deduct -19.15

01 22 20 00-007 HR Electrician, (Inside Wireman) 121.54

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

For Foreperson, Add 6.08

For Apprentice, Deduct -24.31

01 22 20 00-008 HR Electrician, Cable Splicer 133.28

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

For Foreperson, Add 6.66

For Apprentice, Deduct -26.66

01 22 20 00-009 HR Electrical Groundman 133.28

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

For Foreperson, Add 6.66

For Apprentice, Deduct -26.66

01 22 20 00-010 HR High Voltage Electrician, (Utility Lineman) 134.11

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

For Foreperson, Add 6.71

For Apprentice, Deduct -26.82

01 22 20 00-011 HR Communication And System Technician 113.95

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

For Foreperson, Add 6.66

For Apprentice, Deduct -22.79

01 22 20 00-012 HR Equipment Operator, Crane (Group 1-A) 126.31

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0013 HR Equipment Operator, Crane (Group 2-A).....	123.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.19	
01 22 20 00-0014 HR Equipment Operator, Crane (Group 3-A).....	121.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0015 HR Equipment Operator, Medium (Group 3).....	120.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.05	
<i>For Apprentice, Deduct</i>	-24.20	
01 22 20 00-0016 HR Equipment Operator, Medium (Group 4).....	119.07	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017 HR Equipment Operator, Medium (Group 5).....	117.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0018 HR Equipment Operator, Light (Group 6).....	115.51	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.78	
<i>For Apprentice, Deduct</i>	-23.10	
01 22 20 00-0019 HR Equipment Operator, Light (Group 7).....	113.94	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Equipment Operator, Light (Group 8).....	112.39	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021 HR Laborer.....	89.23	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Landscape Maintenance Laborer.....	89.23	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0023 HR Millwright.....	122.86	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.14	
<i>For Apprentice, Deduct</i>	-24.57	
01 22 20 00-0024 HR Mold Removal Worker.....	91.58	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	4.58	
<i>For Apprentice, Deduct</i>	-18.32	
01 22 20 00-0025 HR Painter, Ordinary.....	104.05	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.20	
<i>For Apprentice, Deduct</i>	-20.81	
01 22 20 00-0026 HR Painter, Structural Steel.....	107.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.40	
<i>For Apprentice, Deduct</i>	-21.58	
01 22 20 00-0027 HR Pile Drivers.....	135.87	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.79	
<i>For Apprentice, Deduct</i>	-27.17	
01 22 20 00-0028 HR Plasterer.....	114.98	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.75	
<i>For Apprentice, Deduct</i>	-23.00	
01 22 20 00-0029 HR Plumber.....	121.87	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.09	
<i>For Apprentice, Deduct</i>	-24.37	
01 22 20 00-0030 HR Powderman.....	93.66	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	4.68	
<i>For Apprentice, Deduct</i>	-18.73	
01 22 20 00-0031 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	103.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.20	
<i>For Apprentice, Deduct</i>	-20.80	
01 22 20 00-0032 HR Sheet Metal Worker.....	135.72	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	6.79	
<i>For Apprentice, Deduct</i>	-27.14	
01 22 20 00-0033 HR Stone Mason.....	108.51	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.43	
<i>For Apprentice, Deduct</i>	-21.70	
01 22 20 00-0034 HR Iron Worker (Structural).....	107.14	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.36	
<i>For Apprentice, Deduct</i>	-21.43	
01 22 20 00-0035 HR Tile Layer.....	106.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.32	
<i>For Apprentice, Deduct</i>	-21.29	
01 22 20 00-0036 HR Terrazzo Worker.....	115.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	5.76	
<i>For Apprentice, Deduct</i>	-23.03	
01 22 20 00-0037 HR Truck Driver, Light (Group 1).....	94.49	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>	4.72	
<i>For Apprentice, Deduct</i>	-18.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0038 HR Truck Driver, Medium (Group 2).....	94.93	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy (Group 3).....	95.37	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<i>For Foreperson, Add</i>		4.77
<i>For Apprentice, Deduct</i>		-19.07
01 22 20 00-0040 HR Truck Driver, Heavy (Group 4).....	95.89	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR D1 Certified Welder.....	124.61	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0042 Rates For Services (01 22 20)		
01 22 20 00-0043 HR Watch/Guard Person, Unarmed.....	32.53	
01 22 20 00-0044 HR Watch/Guard Person, Armed.....	41.12	
01 22 20 00-0045 HR Senior Surveyor (Party Chief).....	127.05	
01 22 20 00-0046 HR Surveyor (Instrument person).....	119.70	
01 22 20 00-0047 HR Surveyor (Rod Person).....	115.08	
01 22 20 00-0048 HR On-Site Certified Materials Testing Technician.....	91.05	
01 22 20 00-0049 HR Certified Industrial Hygienist.....	122.90	
01 22 20 00-0050 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.67	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0051 EA Security Badge, Processing Fee.....	90.28	
01 22 20 00-0052 HR Biologist.....	132.00	
01 22 20 00-0053 HR Ecologist.....	145.00	
01 22 20 00-0054 HR Fire Watch Laborer.....	89.23	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0055 Rates For Project Management Services (01 22 20)		
01 22 20 00-0056 HR Project Manager.....	156.25	
01 22 20 00-0057 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0058 HR Principal Architect.....	237.50	
01 22 20 00-0059 HR Senior Architect.....	175.00	
01 22 20 00-0060 HR Architect.....	137.50	
01 22 20 00-0061 HR Principal Engineer.....	205.00	
01 22 20 00-0062 HR Senior Engineer.....	170.00	
01 22 20 00-0063 HR Engineer.....	133.75	
01 22 20 00-0064 HR Draft Person.....	70.00	
01 22 20 00-0065 Rates For Traffic Control (01 22 20)		
01 22 20 00-0066 HR Flagperson For Traffic Control.....	87.63	
01 22 20 00-0067 DAY Pilot Vehicle With Driver.....	1,103.90	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0068 HR California Highway Patrol Officer With Car.....	50.70	
<i>For Each Mile, Add</i>		0.67
01 22 20 00-0069 HR California Highway Patrol Officer With Motorcycle.....	51.22	
<i>For Each Mile, Add</i>		0.67
01 22 20 00-0070 HR California Highway Patrol Sergeant Officer With Car.....	62.13	
<i>For Each Mile, Add</i>		0.67
01 22 20 00-0071 HR California Highway Patrol Sergeant Officer With Motorcycle.....	62.28	
<i>For Each Mile, Add</i>		0.67
01 22 20 00-0072 Mobilize Equipment (01 22 20)		
01 22 20 00-0073 HR Escort Vehicle With Driver.....	101.24	
01 22 20 00-0074 HR Transport Vehicle With Driver.....	137.68	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. Excludes mobilization unless otherwise stated. See CSI section 01 22 20 00-0065 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Man Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	474.55	106.77
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,194.02	268.65
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	2,678.90	602.75 -107.16
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	696.51	156.71
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,660.92	373.71
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	3,635.65	818.02 -145.43
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,354.76	304.82
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,283.57	738.80
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	6,888.60	1,549.94 -275.54
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,928.81	433.98
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	4,644.45	1,045.00
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	11,572.85	2,603.89 -462.91
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	2,349.78	528.70
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	5,993.08	1,348.44
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	13,624.12	3,065.43 -544.96
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	441.87	-106.69
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,108.69	
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	2,667.29	-106.69
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	562.38	
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,229.20	
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	3,051.31	-122.05
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	723.06	
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,671.07	
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	3,735.81	-149.43
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,261.34	
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,972.58	
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	7,228.99	-289.16
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,450.37	
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,784.48	
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	14,139.84	-565.59
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: For use on paved surfaces.		
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	441.87	
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,108.69	
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform..... <i>For >6 Months (>26 Weeks), Deduct</i>	2,667.29	-106.69
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	441.87	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,108.69	
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform..... <i>For >6 Months (>26 Weeks), Deduct</i>	2,667.29	-106.69
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	546.31	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,181.00	
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform..... <i>For >6 Months (>26 Weeks), Deduct</i>	2,932.41	-117.30
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	546.31	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,181.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks) , Deduct</i>	2,932.41 -117.30	
01 22 23 00-0050 Platform Lifts (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050) Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	178.97	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	357.94	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	732.15 -29.29	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	195.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	390.48	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	780.96 -31.24	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	252.18	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	504.37	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	1,081.96 -43.28	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	325.40	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	642.66	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	1,423.62 -56.94	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	349.80	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	683.34	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	1,545.65 -61.83	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift	455.56	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift	1,130.76	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	3,148.24 -125.93	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	455.36 91.07	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	890.47 178.09	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	2,175.58 435.12 -87.02	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	465.47 93.09	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	1,062.50 212.50	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	2,327.37 465.47 -93.09	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	516.07 103.21	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	1,183.92 236.78	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	2,630.94 526.19 -105.24	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	546.43 109.29	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	1,274.99 255.00	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	3,136.89 627.38 -125.48	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	1,022.02 204.40	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i>	2,246.42 449.28	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift <i>For Four-Wheel Drive, Add</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	5,524.97 1,104.99 -221.00	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001) Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift	135.75	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift	384.62	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	776.77 -31.07	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift	188.54	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift	399.70	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0092	MO	30'	Push-Type, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	1,357.47 -54.30	
01 22 23 00-0093	DAY	36'	Push-Type, Electric Single Man Personnel Lift	316.74	
01 22 23 00-0094	WK	36'	Push-Type, Electric Single Man Personnel Lift	769.23	
01 22 23 00-0095	MO	36'	Push-Type, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	2,247.37 -89.89	
01 22 23 00-0096	DAY	40'	Push-Type, Electric Single Man Personnel Lift	339.37	
01 22 23 00-0097	WK	40'	Push-Type, Electric Single Man Personnel Lift	844.65	
01 22 23 00-0098	MO	40'	Push-Type, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	2,541.49 -101.66	
01 22 23 00-0099	DAY	15'	Self-Propelled, Electric Single Man Personnel Lift	181.00	
01 22 23 00-0100	WK	15'	Self-Propelled, Electric Single Man Personnel Lift	361.99	
01 22 23 00-0101	MO	15'	Self-Propelled, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	723.98 -28.96	
01 22 23 00-0102	DAY	20'	Self-Propelled, Electric Single Man Personnel Lift	181.00	
01 22 23 00-0103	WK	20'	Self-Propelled, Electric Single Man Personnel Lift	361.99	
01 22 23 00-0104	MO	20'	Self-Propelled, Electric Single Man Personnel Lift <i>For >6 Months (>26 Weeks) , Deduct</i>	752.64 -30.11	
01 22 23 00-0105			Bucket Trucks <small>(01 22 23 00-0001)</small> Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106	DAY	29' To 33'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,461.91 -762.97	
01 22 23 00-0107	WK	29' To 33'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,911.69 -3,814.87	
01 22 23 00-0108	MO	29' To 33'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	21,868.47 -16,531.11 -213.49	
01 22 23 00-0109	DAY	38' To 41'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,550.87 -762.97	
01 22 23 00-0110	WK	38' To 41'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,197.62 -3,814.87	
01 22 23 00-0111	MO	38' To 41'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	22,630.95 -16,531.11 -243.99	
01 22 23 00-0112	DAY	45' To 48'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,779.61 -762.97	
01 22 23 00-0113	WK	45' To 48'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,610.63 -3,814.87	
01 22 23 00-0114	MO	45' To 48'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	23,520.51 -16,531.11 -279.58	
01 22 23 00-0115	DAY	62'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,287.93 -762.97	
01 22 23 00-0116	WK	62'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,262.67 -3,814.87	
01 22 23 00-0117	MO	62'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	27,968.31 -16,531.11 -457.49	
01 22 23 00-0118	DAY	85'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,542.09 -762.97	
01 22 23 00-0119	WK	85'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,152.23 -3,814.87	
01 22 23 00-0120	MO	85'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	31,145.31 -16,531.11 -584.57	
01 22 23 00-0121	Day	105'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,669.17 -762.97	
01 22 23 00-0122	WK	105'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,533.47 -3,814.87	
01 22 23 00-0123	MO	105'	Bucket Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	31,450.30 -16,531.11 -596.77	
01 22 23 00-0124			Air Equipment <small>(01 22 23)</small>		
01 22 23 00-0125			Air Compressors <small>(01 22 23 00-0124)</small> Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126	DAY	100 CFM	Diesel Powered Portable Air Compressor	177.31	
01 22 23 00-0127	WK	100 CFM	Diesel Powered Portable Air Compressor	531.92	
01 22 23 00-0128	MO	100 CFM	Diesel Powered Portable Air Compressor <i>For >6 Months (>26 Weeks) , Deduct</i>	1,477.56 -59.10	
01 22 23 00-0129	DAY	130 CFM	Diesel Powered Portable Air Compressor	212.77	
01 22 23 00-0130	WK	130 CFM	Diesel Powered Portable Air Compressor	626.49	
01 22 23 00-0131	MO	130 CFM	Diesel Powered Portable Air Compressor <i>For >6 Months (>26 Weeks) , Deduct</i>	1,773.08 -70.92	
01 22 23 00-0132	DAY	185 CFM	Diesel Powered Portable Air Compressor	283.69	
01 22 23 00-0133	WK	185 CFM	Diesel Powered Portable Air Compressor	638.31	
01 22 23 00-0134	MO	185 CFM	Diesel Powered Portable Air Compressor <i>For >6 Months (>26 Weeks) , Deduct</i>	1,406.64 -56.27	
01 22 23 00-0135	DAY	375 CFM	Diesel Powered Portable Air Compressor	401.90	
01 22 23 00-0136	WK	375 CFM	Diesel Powered Portable Air Compressor	1,016.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23	00-0137	MO	375 CFM Diesel Powered Portable Air Compressor.....	2,423.20	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-96.93	
01 22 23	00-0138	DAY	600 CFM Diesel Powered Portable Air Compressor.....	893.63	
01 22 23	00-0139	WK	600 CFM Diesel Powered Portable Air Compressor.....	2,151.33	
01 22 23	00-0140	MO	600 CFM Diesel Powered Portable Air Compressor.....	5,361.78	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-214.47	
01 22 23	00-0141	DAY	750 CFM Diesel Powered Portable Air Compressor.....	1,075.67	
01 22 23	00-0142	WK	750 CFM Diesel Powered Portable Air Compressor.....	2,647.79	
01 22 23	00-0143	MO	750 CFM Diesel Powered Portable Air Compressor.....	6,501.28	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-260.05	
01 22 23	00-0144	DAY	825 CFM Diesel Powered Portable Air Compressor.....	1,075.67	
01 22 23	00-0145	WK	825 CFM Diesel Powered Portable Air Compressor.....	2,647.79	
01 22 23	00-0146	MO	825 CFM Diesel Powered Portable Air Compressor.....	6,501.28	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-260.05	
01 22 23	00-0147	DAY	1,300 CFM Diesel Powered Portable Air Compressor.....	1,252.97	
01 22 23	00-0148	WK	1,300 CFM Diesel Powered Portable Air Compressor.....	2,808.55	
01 22 23	00-0149	MO	1,300 CFM Diesel Powered Portable Air Compressor.....	7,489.47	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-299.58	
01 22 23	00-0150	DAY	1,600 CFM Diesel Powered Portable Air Compressor.....	1,560.31	
01 22 23	00-0151	WK	1,600 CFM Diesel Powered Portable Air Compressor.....	3,510.69	
01 22 23	00-0152	MO	1,600 CFM Diesel Powered Portable Air Compressor.....	9,361.84	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-374.47	
01 22 23 00-0153 Portable Negative Air Machines (01 22 23 00-0124)					
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.					
01 22 23	00-0154	DAY	Up To 2,000 CFM, Portable Negative Air Machine.....	70.90	
01 22 23	00-0155	WK	Up To 2,000 CFM, Portable Negative Air Machine.....	291.20	
01 22 23	00-0156	MO	Up To 2,000 CFM, Portable Negative Air Machine.....	879.94	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-35.20	
01 22 23	00-0157	EA	First Stage Pre-Filter For Portable Negative Air Machines.....	14.68	
01 22 23	00-0158	EA	Second Stage Pre-Filter For Portable Negative Air Machines.....	32.68	
01 22 23	00-0159	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines.....	165.32	
01 22 23	00-0160	LF	Flexible Exhaust Duct For Portable Negative Air Machines.....	2.52	
01 22 23 00-0161 Compaction And Paving Equipment (01 22 23)					
01 22 23 00-0162 Pavers And Rollers (01 22 23 00-0161)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0163 Pavers (01 22 23 00-0162)					
01 22 23	00-0164	DAY	10' Wide Paving Machine With Full-Time Operator.....	4,066.40	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23	00-0165	WK	10' Wide Paving Machine With Full-Time Operator.....	17,233.49	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23	00-0166	MO	10' Wide Paving Machine With Full-Time Operator.....	65,236.16	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,770.60	
01 22 23 00-0167 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0162)					
01 22 23	00-0168	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,343.73	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23	00-0169	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,976.20	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23	00-0170	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	24,056.84	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-123.43	
01 22 23	00-0171	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,488.79	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23	00-0172	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	7,054.90	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23	00-0173	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	25,685.43	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-188.57	
01 22 23	00-0174	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,495.38	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23	00-0175	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	6,626.32	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23	00-0176	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	26,001.92	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-201.23	
01 22 23 00-0177 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0162)					
01 22 23	00-0178	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator.....	1,403.07	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23	00-0179	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator.....	6,046.09	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0180	MO		5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,459.04	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-139.52	
01 22 23 00-0181	DAY		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,680.00	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0182	WK		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,606.54	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0183	MO		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,226.10	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-210.20	
01 22 23 00-0184	DAY		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,745.93	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0185	WK		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,021.93	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0186	MO		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	27,386.56	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-256.62	
01 22 23 00-0187			Towed, Padfoot Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0188	DAY		48" Wide, 40" Diameter, Towed Padfoot Roller	125.28	
01 22 23 00-0189	WK		48" Wide, 40" Diameter, Towed Padfoot Roller	362.64	
01 22 23 00-0190	MO		48" Wide, 40" Diameter, Towed Padfoot Roller	1,068.15	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-42.73	
01 22 23 00-0191	DAY		60" Wide, 60" Diameter, Towed Padfoot Roller	158.24	
01 22 23 00-0192	WK		60" Wide, 60" Diameter, Towed Padfoot Roller	441.76	
01 22 23 00-0193	MO		60" Wide, 60" Diameter, Towed Padfoot Roller	1,879.15	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-75.17	
01 22 23 00-0194			Static Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0195	DAY		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,436.04	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0196	WK		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,329.61	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0197	MO		5 Ton, 2 Drum Articulated Roller With Full-Time Operator	25,388.72	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-176.71	
01 22 23 00-0198	DAY		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,581.10	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0199	WK		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,725.22	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0200	MO		8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	26,483.25	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-220.49	
01 22 23 00-0201			Ride-On Self-Propelled, Smooth Drum Vibratory Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0202	DAY		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,225.05	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0203	WK		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,591.14	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0204	MO		1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,949.13	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-79.12	
01 22 23 00-0205	DAY		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,323.95	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0206	WK		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,887.85	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0207	MO		3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,740.35	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-110.77	
01 22 23 00-0208	DAY		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,389.88	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0209	WK		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,085.65	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0210	MO		5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,267.83	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-131.87	
01 22 23 00-0211	DAY		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,475.60	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0212	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,336.20	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0213	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,920.59	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-157.98	
01 22 23 00-0214	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,647.03	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0215	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,837.31	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0216	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,245.88	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-210.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0217

Steel Roadway Plates (01 22 23 00-0161)

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

01 22 23 00-0218	EA	Placement And Removal Of Steel Roadway Plates.....	57.73
01 22 23 00-0219	DAY	1" x 4' x 8' Steel Plate	44.12
01 22 23 00-0220	WK	1" x 4' x 8' Steel Plate	104.18
01 22 23 00-0221	MO	1" x 4' x 8' Steel Plate	137.10
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-5.48
01 22 23 00-0222	DAY	1" x 4' x 10' Steel Plate	58.83
01 22 23 00-0223	WK	1" x 4' x 10' Steel Plate	132.36
01 22 23 00-0224	MO	1" x 4' x 10' Steel Plate	161.78
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-6.47
01 22 23 00-0225	DAY	1" x 5' x 10' Steel Plate	61.28
01 22 23 00-0226	WK	1" x 5' x 10' Steel Plate	138.49
01 22 23 00-0227	MO	1" x 5' x 10' Steel Plate	367.68
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-14.71
01 22 23 00-0228	DAY	1" x 6' x 8' Steel Plate	39.22
01 22 23 00-0229	WK	1" x 6' x 8' Steel Plate	88.24
01 22 23 00-0230	MO	1" x 6' x 8' Steel Plate	235.32
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-9.41
01 22 23 00-0231	DAY	1" x 6' x 10' Steel Plate	73.54
01 22 23 00-0232	WK	1" x 6' x 10' Steel Plate	96.82
01 22 23 00-0233	MO	1" x 6' x 10' Steel Plate	258.60
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-10.34
01 22 23 00-0234	DAY	1" x 6' x 12' Steel Plate	102.95
01 22 23 00-0235	WK	1" x 6' x 12' Steel Plate	131.75
01 22 23 00-0236	MO	1" x 6' x 12' Steel Plate	356.65
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-14.27
01 22 23 00-0237	DAY	1" x 8' x 10' Steel Plate	64.96
01 22 23 00-0238	WK	1" x 8' x 10' Steel Plate	145.85
01 22 23 00-0239	MO	1" x 8' x 10' Steel Plate	388.52
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-15.54
01 22 23 00-0240	DAY	1" x 8' x 12' Steel Plate	117.66
01 22 23 00-0241	WK	1" x 8' x 12' Steel Plate	145.85
01 22 23 00-0242	MO	1" x 8' x 12' Steel Plate	705.95
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-28.24
01 22 23 00-0243	DAY	1" x 8' x 16' Steel Plate	156.88
01 22 23 00-0244	WK	1" x 8' x 16' Steel Plate	352.97
01 22 23 00-0245	MO	1" x 8' x 16' Steel Plate	941.26
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-37.65
01 22 23 00-0246	DAY	1-1/4" x 8' x 10' Steel Plate	77.95
01 22 23 00-0247	WK	1-1/4" x 8' x 10' Steel Plate	175.02
01 22 23 00-0248	MO	1-1/4" x 8' x 10' Steel Plate	466.22
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-18.65
01 22 23 00-0249	DAY	1-1/2" x 8' x 15' Steel Plate	180.41
01 22 23 00-0250	WK	1-1/2" x 8' x 15' Steel Plate	405.92
01 22 23 00-0251	MO	1-1/2" x 8' x 15' Steel Plate	1,082.45
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-43.30
01 22 23 00-0252	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate	2.55
01 22 23 00-0253	EA	Removal And Resetting Of Steel Roadway Plate	32.07

1.11

01 22 23 00-0254

Street Sweepers (01 22 23 00-0161)

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

01 22 23 00-0255	DAY	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	1,140.20
		<i>For Equipment Without Operator, Deduct</i>	-924.06
01 22 23 00-0256	WK	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	5,476.79
		<i>For Equipment Without Operator, Deduct</i>	-4,620.31
01 22 23 00-0257	MO	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	23,072.78
		<i>For Equipment Without Operator, Deduct</i>	-20,021.35
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-122.06
01 22 23 00-0258	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	2,007.13
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	
		<i>For Equipment Without Operator, Deduct</i>	-924.06
01 22 23 00-0259	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	8,958.57
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	
		<i>For Equipment Without Operator, Deduct</i>	-4,620.31
01 22 23 00-0260	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	35,503.56
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.	
		<i>For Equipment Without Operator, Deduct</i>	-20,021.35
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-619.29

01 22 23 00-0261

Earthmoving Equipment (01 22 23)

01 22 23 00-0262

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

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

01 22 23 00-0263	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,280.96
		<i>For Equipment Without Operator, Deduct</i>	-924.06

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0264	WK		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	5,556.61	
			<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0265	MO		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	22,276.23	
			<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-90.20	
01 22 23 00-0266	DAY		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,375.04	
			<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0267	WK		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	5,726.85	
			<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0268	MO		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	22,649.56	
			<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-105.13	
01 22 23 00-0269	DAY		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,401.92	
			<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0270	WK		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	5,971.75	
			<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0271	MO		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	23,299.14	
			<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-131.11	
01 22 23 00-0272	DAY		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,506.45	
			<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0273	WK		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,315.21	
			<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0274	MO		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	24,434.05	
			<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-176.51	
01 22 23 00-0275	DAY		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,685.64	
			<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0276	WK		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,994.66	
			<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0277	MO		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	26,106.55	
			<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-243.41	
01 22 23 00-0278	DAY		Hydraulic Hammer Attachment For Skid-Steer Loaders	298.66	
01 22 23 00-0279	WK		Hydraulic Hammer Attachment For Skid-Steer Loaders	993.04	
01 22 23 00-0280	MO		Hydraulic Hammer Attachment For Skid-Steer Loaders	2,643.14	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-105.73	
01 22 23 00-0281	DAY		Forklift Attachment For Skid-Steer Loaders	64.21	
01 22 23 00-0282	WK		Forklift Attachment For Skid-Steer Loaders	171.73	
01 22 23 00-0283	MO		Forklift Attachment For Skid-Steer Loaders	485.32	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-19.41	
01 22 23 00-0284	DAY		Backhoe Attachment For Skid-Steer Loaders	141.86	
01 22 23 00-0285	WK		Backhoe Attachment For Skid-Steer Loaders	340.47	
01 22 23 00-0286	MO		Backhoe Attachment For Skid-Steer Loaders	846.70	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-33.87	
01 22 23 00-0287	DAY		Broom Attachment For Skid-Steer Loaders	140.37	
01 22 23 00-0288	WK		Broom Attachment For Skid-Steer Loaders	380.79	
01 22 23 00-0289	MO		Broom Attachment For Skid-Steer Loaders	1,007.98	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-40.32	
01 22 23 00-0290	DAY		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	122.45	
01 22 23 00-0291	WK		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	337.49	
01 22 23 00-0292	MO		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	921.37	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-36.85	
01 22 23 00-0293	DAY		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	33.75	
01 22 23 00-0294	WK		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	88.30	
01 22 23 00-0295	MO		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	259.70	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-10.39	
01 22 23 00-0296	DAY		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	45.44	
01 22 23 00-0297	WK		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	112.97	
01 22 23 00-0298	MO		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	337.62	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-13.50	
01 22 23 00-0299	DAY		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	66.21	
01 22 23 00-0300	WK		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	201.28	
01 22 23 00-0301	MO		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	597.32	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-23.89	
01 22 23 00-0302	DAY		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	13.44	
01 22 23 00-0303	WK		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	31.36	
01 22 23 00-0304	MO		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	83.62	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-3.34	

01 22 23 00-0305 Bulldozers (01 22 23 00-0261)

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

01 22 23 00-0306	DAY		70 HP, D3 Bulldozer With Full-Time Operator	1,406.00	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0307	WK		70 HP, D3 Bulldozer With Full-Time Operator	6,567.07	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0308	MO		70 HP, D3 Bulldozer With Full-Time Operator	26,096.00	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-205.00	
01 22 23 00-0309	DAY		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,612.65	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0310	WK		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	7,401.94	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0311 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	28,658.46 -20,971.08 -307.50	
01 22 23 00-0312 DAY 140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,199.53 -967.90	
01 22 23 00-0313 WK 140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,749.48 -4,839.48	
01 22 23 00-0314 MO 140 HP, D6 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	35,684.56 -20,971.08 -588.54	
01 22 23 00-0315 DAY 200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,720.29 -967.90	
01 22 23 00-0316 WK 200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,840.78 -4,839.48	
01 22 23 00-0317 MO 200 HP, D7 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	41,966.72 -20,971.08 -839.83	
01 22 23 00-0318 DAY 335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,340.24 -967.90	
01 22 23 00-0319 WK 335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,320.58 -4,839.48	
01 22 23 00-0320 MO 335 HP, D8 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	49,406.12 -20,971.08 -1,137.40	
01 22 23 00-0321 DAY 460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,687.41 -967.90	
01 22 23 00-0322 WK 460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,701.00 -4,839.48	
01 22 23 00-0323 MO 460 HP, D9 Bulldozer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	53,539.12 -20,971.08 -1,302.72	
01 22 23 00-0324 Motor Scraper <small>(01 22 23 00-0261)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0325 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,284.53 -967.90	
01 22 23 00-0326 WK 11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,105.99 -4,839.48	
01 22 23 00-0327 MO 11 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	36,752.58 -20,971.08 -631.26	
01 22 23 00-0328 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,816.59 -967.90	
01 22 23 00-0329 WK 18 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,234.24 -4,839.48	
01 22 23 00-0330 MO 18 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	43,155.36 -20,971.08 -887.37	
01 22 23 00-0331 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,330.62 -967.90	
01 22 23 00-0332 WK 24 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,281.33 -4,839.48	
01 22 23 00-0333 MO 24 CY Motor Scraper-Hauler With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	49,287.60 -20,971.08 -1,132.66	
01 22 23 00-0334 Hydraulic Excavators <small>(01 22 23 00-0261)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0335 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,339.15 -967.90	
01 22 23 00-0336 WK 3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,152.60 -4,839.48	
01 22 23 00-0337 MO 3/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	25,371.08 -20,971.08 -176.00	
01 22 23 00-0338 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,443.65 -967.90	
01 22 23 00-0339 WK 1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,613.23 -4,839.48	
01 22 23 00-0340 MO 1/2 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	27,213.58 -20,971.08 -249.70	
01 22 23 00-0341 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,476.65 -967.90	
01 22 23 00-0342 WK 5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,785.10 -4,839.48	
01 22 23 00-0343 MO 5/8 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	27,516.08 -20,971.08 -261.80	
01 22 23 00-0344 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,511.02 -967.90	
01 22 23 00-0345 WK 3/4 CY Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,943.23 -4,839.48	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0346 MO 3/4 CY Hydraulic Excavator With Full-Time Operator.....	27,818.58	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-273.90	
01 22 23 00-0347 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	1,538.52	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0348 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	7,108.23	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0349 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	28,121.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-286.00	
01 22 23 00-0350 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,909.78	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0351 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	8,586.36	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0352 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	32,211.70	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-449.62	
01 22 23 00-0353 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,964.78	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0354 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	8,826.98	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0355 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	32,933.58	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-478.50	
01 22 23 00-0356 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	2,067.90	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0357 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	9,239.48	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0358 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	34,171.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-528.00	
01 22 23 00-0359 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	2,184.78	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0360 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	9,700.10	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0361 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	35,546.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-583.00	
01 22 23 00-0362 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,219.15	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0363 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	9,837.60	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0364 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	35,958.58	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-599.50	
01 22 23 00-0365 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,549.15	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0366 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,164.48	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0367 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	39,946.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-759.00	
01 22 23 00-0368 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	3,023.52	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0369 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	13,048.23	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0370 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	45,583.58	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-984.50	
01 22 23 00-0371 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,607.90	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0372 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	15,385.73	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0373 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	52,596.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-1,265.00	
01 22 23 00-0374 DAY Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	2,095.40	
For Equipment Without Operator, Deduct	-967.90	
01 22 23 00-0375 WK Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	9,335.73	
For Equipment Without Operator, Deduct	-4,839.48	
01 22 23 00-0376 MO Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	34,446.08	
For Equipment Without Operator, Deduct	-20,971.08	
For >6 Months (>26 Weeks) , Deduct	-539.00	
01 22 23 00-0377 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	96.25	
01 22 23 00-0378 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	371.25	
01 22 23 00-0379 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,100.00	
For >6 Months (>26 Weeks) , Deduct	-44.00	
01 22 23 00-0380 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	426.25	
01 22 23 00-0381 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,127.50	
01 22 23 00-0382 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,155.62	
For >6 Months (>26 Weeks) , Deduct	-126.22	
01 22 23 00-0383 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	660.00	
01 22 23 00-0384 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,684.38	
01 22 23 00-0385 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,379.38	
For >6 Months (>26 Weeks) , Deduct	-175.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0386 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	921.25	
01 22 23 00-0387 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	2,481.88	
01 22 23 00-0388 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	6,957.50	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-278.30	
01 22 23 00-0389 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	192.50	
01 22 23 00-0390 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	770.00	
01 22 23 00-0391 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,310.00	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-92.40	
01 22 23 00-0392 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	275.00	
01 22 23 00-0393 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,100.00	
01 22 23 00-0394 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,300.00	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-132.00	
01 22 23 00-0395 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	302.50	
01 22 23 00-0396 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,196.25	
01 22 23 00-0397 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,575.00	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-143.00	
01 22 23 00-0398 Mini-Excavators <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0399 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,256.65	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0400 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	5,657.60	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0401 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	22,772.33	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-72.05	
01 22 23 00-0402 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,263.52	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0403 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	5,678.23	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0404 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	23,205.46	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-89.38	
01 22 23 00-0405 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,297.90	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0406 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	5,774.48	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0407 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	23,267.33	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-91.85	
01 22 23 00-0408 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,311.65	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0409 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	5,822.60	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0410 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	23,294.83	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-92.95	
01 22 23 00-0411 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,394.15	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0412 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	5,891.36	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0413 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	24,092.33	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-124.85	
01 22 23 00-0414 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,401.02	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0415 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	6,235.10	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0416 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	24,126.70	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-126.22	
01 22 23 00-0417 Telescopic Hydraulic Excavators (Gradall) <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0418 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	4,390.14	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0419 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	12,882.83	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0420 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	49,678.95	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,148.31	
01 22 23 00-0421 Road Graders <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0422 DAY 50 To 60 HP Road Grader With Full-Time Operator.....	2,320.60	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0423 WK 50 To 60 HP Road Grader With Full-Time Operator.....	8,356.50	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0424 MO 50 To 60 HP Road Grader With Full-Time Operator.....	30,439.98	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-378.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0425	DAY		80 To 100 HP Road Grader With Full-Time Operator.....	2,987.93	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0426	WK		80 To 100 HP Road Grader With Full-Time Operator.....	9,835.45	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0427	MO		80 To 100 HP Road Grader With Full-Time Operator.....	34,948.98	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-559.12	
01 22 23 00-0428	DAY		130 To 140 HP Road Grader With Full-Time Operator.....	3,485.42	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0429	WK		130 To 140 HP Road Grader With Full-Time Operator.....	11,308.99	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0430	MO		130 To 140 HP Road Grader With Full-Time Operator.....	40,382.32	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-776.45	
01 22 23 00-0431	DAY		170 To 185 HP Road Grader With Full-Time Operator.....	4,241.43	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0432	WK		170 To 185 HP Road Grader With Full-Time Operator.....	17,933.62	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0433	MO		170 To 185 HP Road Grader With Full-Time Operator.....	66,800.53	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.05	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,833.18	
01 22 23 00-0434 Loader-Backhoes With Standard Bucket (01 22 23 00-0261)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0435	DAY		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,432.39	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0436	WK		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	5,942.65	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0437	MO		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	23,567.26	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-103.85	
01 22 23 00-0438	DAY		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,482.16	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0439	WK		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	6,116.83	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0440	MO		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	24,628.95	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-146.31	
01 22 23 00-0441	DAY		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,558.88	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0442	WK		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	6,307.61	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0443	MO		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	25,176.39	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-168.21	
01 22 23 00-0444	DAY		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,901.03	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0445	WK		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	7,327.83	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0446	MO		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	28,096.06	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-285.00	
01 22 23 00-0447 Heavy Duty Construction Loaders (01 22 23 00-0261)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0448	DAY		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,439.80	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0449	WK		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,705.30	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0450	MO		2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	26,561.28	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-223.61	
01 22 23 00-0451	DAY		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,831.84	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0452	WK		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,133.64	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0453	MO		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	26,779.08	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-232.32	
01 22 23 00-0454	DAY		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,918.96	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0455	WK		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,365.96	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0456	MO		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	27,359.88	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-255.55	
01 22 23 00-0457	DAY		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	2,158.54	
			<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0458	WK		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,997.58	
			<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0459	MO		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	28,957.08	
			<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-319.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0460 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator.....	2,775.64	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0461 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator.....	12,055.92	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0462 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator.....	42,605.88	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-865.39	
01 22 23 00-0463 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,841.17	
<i>For Equipment Without Operator, Deduct</i>	-967.90	
01 22 23 00-0464 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,911.30	
<i>For Equipment Without Operator, Deduct</i>	-4,839.48	
01 22 23 00-0465 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator.....	72,946.94	
<i>For Equipment Without Operator, Deduct</i>	-20,971.08	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-2,079.03	
01 22 23 00-0466 Tractors <small>(01 22 23 00-0261)</small>		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0467 DAY 20 To 29 HP Tractor.....	562.01	
01 22 23 00-0468 WK 20 To 29 HP Tractor.....	1,352.99	
01 22 23 00-0469 MO 20 To 29 HP Tractor.....	3,653.07	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-146.12	
01 22 23 00-0470 DAY 30 To 35 HP Tractor.....	582.33	
01 22 23 00-0471 WK 30 To 35 HP Tractor.....	1,499.19	
01 22 23 00-0472 MO 30 To 35 HP Tractor.....	4,150.65	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-166.03	
01 22 23 00-0473 DAY 40 To 45 HP Tractor.....	594.72	
01 22 23 00-0474 WK 40 To 45 HP Tractor.....	1,598.31	
01 22 23 00-0475 MO 40 To 45 HP Tractor.....	4,386.06	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-175.44	
01 22 23 00-0476 DAY 80 To 89 HP Tractor.....	765.70	
01 22 23 00-0477 WK 80 To 89 HP Tractor.....	2,171.47	
01 22 23 00-0478 MO 80 To 89 HP Tractor.....	6,217.55	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-248.70	
01 22 23 00-0479 DAY 60" Rotary Mower Attachment For Tractors.....	240.37	
01 22 23 00-0480 WK 60" Rotary Mower Attachment For Tractors.....	743.40	
01 22 23 00-0481 DAY 84" Rotary Mower Attachment For Tractors.....	262.67	
01 22 23 00-0482 WK 84" Rotary Mower Attachment For Tractors.....	805.35	
01 22 23 00-0483 DAY Under Deck Rotary Mower Attachment For Tractors.....	40.18	
01 22 23 00-0484 WK Under Deck Rotary Mower Attachment For Tractors.....	160.73	
01 22 23 00-0485 Shoring <small>(01 22 23 00-0261)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0486 Aluminum Hydraulic Shoring <small>(01 22 23 00-0485)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0487 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring.....	120.17	
Note: Up to 88" spread width.		
01 22 23 00-0488 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring.....	354.46	
Note: Up to 88" spread width.		
<i>For >6 Months (>26 Weeks) , Deduct</i>	-14.18	
01 22 23 00-0489 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	161.21	
Note: Up to 88" spread width.		
01 22 23 00-0490 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	475.49	
Note: Up to 88" spread width.		
<i>For >6 Months (>26 Weeks) , Deduct</i>	-19.02	
01 22 23 00-0491 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	298.93	
Note: Up to 88" spread width.		
01 22 23 00-0492 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	881.83	
Note: Up to 88" spread width.		
<i>For >6 Months (>26 Weeks) , Deduct</i>	-35.27	
01 22 23 00-0493 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	28.13	
01 22 23 00-0494 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	45.01	
01 22 23 00-0495 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	75.00	
01 22 23 00-0496 Trench Boxes/Trench Shields <small>(01 22 23 00-0261)</small>		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0497 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	256.08	
01 22 23 00-0498 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	768.23	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-30.73	
01 22 23 00-0499 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	289.12	
01 22 23 00-0500 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	867.35	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-34.69	
01 22 23 00-0501 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	305.64	
01 22 23 00-0502 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	916.92	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-36.68	
01 22 23 00-0503 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	280.86	
01 22 23 00-0504 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	842.57	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-33.70	
01 22 23 00-0505 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	330.42	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0506	MO 6' x 8' Trench Box With Up To 48" Spreaders.....	991.26	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-39.65	
01 22 23 00-0507	WK 8' x 8' Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0508	MO 8' x 8' Trench Box With Up To 48" Spreaders.....	1,115.17	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-44.61	
01 22 23 00-0509	WK 4' x 10' Trench Box With Up To 48" Spreaders.....	313.90	
01 22 23 00-0510	MO 4' x 10' Trench Box With Up To 48" Spreaders.....	941.70	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-37.67	
01 22 23 00-0511	WK 6' x 10' Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0512	MO 6' x 10' Trench Box With Up To 48" Spreaders.....	1,115.17	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-44.61	
01 22 23 00-0513	WK 8' x 10' Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0514	MO 8' x 10' Trench Box With Up To 48" Spreaders.....	1,354.72	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-54.19	
01 22 23 00-0515	WK 4' x 12' Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0516	MO 4' x 12' Trench Box With Up To 48" Spreaders.....	1,115.17	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-44.61	
01 22 23 00-0517	WK 6' x 12' Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0518	MO 6' x 12' Trench Box With Up To 48" Spreaders.....	1,362.98	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-54.52	
01 22 23 00-0519	WK 8' x 12' Trench Box With Up To 48" Spreaders.....	578.24	
01 22 23 00-0520	MO 8' x 12' Trench Box With Up To 48" Spreaders.....	1,734.70	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-69.39	
01 22 23 00-0521	WK 4' x 14' Trench Box With Up To 48" Spreaders.....	413.02	
01 22 23 00-0522	MO 4' x 14' Trench Box With Up To 48" Spreaders.....	1,239.08	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-49.56	
01 22 23 00-0523	WK 6' x 14' Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0524	MO 6' x 14' Trench Box With Up To 48" Spreaders.....	1,610.80	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-64.43	
01 22 23 00-0525	WK 8' x 14' Trench Box With Up To 48" Spreaders.....	660.84	
01 22 23 00-0526	MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,982.52	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-79.30	
01 22 23 00-0527	WK 4' x 16' Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0528	MO 4' x 16' Trench Box With Up To 48" Spreaders.....	1,362.98	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-54.52	
01 22 23 00-0529	WK 6' x 16' Trench Box With Up To 48" Spreaders.....	619.54	
01 22 23 00-0530	MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,858.61	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-74.34	
01 22 23 00-0531	WK 8' x 16' Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0532	MO 8' x 16' Trench Box With Up To 48" Spreaders.....	2,230.34	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-89.21	
01 22 23 00-0533	WK 4' x 20' Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0534	MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,610.80	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-64.43	
01 22 23 00-0535	WK 6' x 20' Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0536	MO 6' x 20' Trench Box With Up To 48" Spreaders.....	2,230.34	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-89.21	
01 22 23 00-0537	WK 8' x 20' Trench Box With Up To 48" Spreaders.....	867.35	
01 22 23 00-0538	MO 8' x 20' Trench Box With Up To 48" Spreaders.....	2,602.06	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-104.08	
01 22 23 00-0539	WK 4' x 24' Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0540	MO 4' x 24' Trench Box With Up To 48" Spreaders.....	2,230.34	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-89.21	
01 22 23 00-0541	WK 6' x 24' Trench Box With Up To 48" Spreaders.....	908.66	
01 22 23 00-0542	MO 6' x 24' Trench Box With Up To 48" Spreaders.....	2,725.96	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-109.04	
01 22 23 00-0543	WK 8' x 24' Trench Box With Up To 48" Spreaders.....	991.26	
01 22 23 00-0544	MO 8' x 24' Trench Box With Up To 48" Spreaders.....	2,973.78	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-118.95	
01 22 23 00-0545	WK For Spreaders >48" To 84", Add.....	24.78	
01 22 23 00-0546	MO For Spreaders >48" To 84", Add.....	74.34	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-2.97	
01 22 23 00-0547	WK For Spreaders >84" To 120", Add.....	148.69	
01 22 23 00-0548	MO For Spreaders >84" To 120", Add.....	446.07	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-17.84	
01 22 23 00-0549	WK For Spreaders >120", Add.....	313.90	
01 22 23 00-0550	MO For Spreaders >120", Add.....	941.70	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-37.67	
01 22 23 00-0551	WK 8' x 4' Manhole Box.....	390.31	
01 22 23 00-0552	MO 8' x 4' Manhole Box.....	1,170.93	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-46.84	
01 22 23 00-0553	WK 8' x 8' Manhole Box.....	557.58	
01 22 23 00-0554	MO 8' x 8' Manhole Box.....	1,672.75	
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-66.91	

01 22 23 00-0555 Trenchers (01 22 23 00-0261)

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

01 22 23 00-0556	DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,320.54	
	<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0557	WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	5,970.82	
	<i>For Equipment Without Operator, Deduct</i>	-4,620.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0558 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	23,738.35 -20,021.35 -148.68	
01 22 23 00-0559 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,989.60 -924.06	
01 22 23 00-0560 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,225.80 -4,620.31	
01 22 23 00-0561 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	29,933.35 -20,021.35 -396.48	
01 22 23 00-0562 Portable Sediment Tank <small>(01 22 23 00-0261)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0563 WK Portable Sediment Tank	200.92	
01 22 23 00-0564 MO Portable Sediment Tank <i>For >6 Months (>26 Weeks) , Deduct</i>	589.36 -23.57	
01 22 23 00-0565 Heavy Equipment (Ground Protection) Mats <small>(01 22 23 00-0261)</small> Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0261 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0566 DAY 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	21.42	
01 22 23 00-0567 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	51.00	
01 22 23 00-0568 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	107.09 -4.28	
01 22 23 00-0569 DAY 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	22.49	
01 22 23 00-0570 WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	53.54	
01 22 23 00-0571 MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	112.44 -4.50	
01 22 23 00-0572 Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	18.21	
01 22 23 00-0573 WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	42.84	
01 22 23 00-0574 MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	91.03 -3.64	
01 22 23 00-0575 Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	20.35	
01 22 23 00-0576 WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	48.19	
01 22 23 00-0577 MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	101.74 -4.07	
01 22 23 00-0578 Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	22.49	
01 22 23 00-0579 WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	53.54	
01 22 23 00-0580 MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	112.44 -4.50	
01 22 23 00-0581 Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	24.63	
01 22 23 00-0582 WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	58.64	
01 22 23 00-0583 MO 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	123.15 -4.93	
01 22 23 00-0584 Day 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	19.28	
01 22 23 00-0585 WK 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	53.54	
01 22 23 00-0586 MO 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	96.38 -3.86	
01 22 23 00-0587 Day 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	22.49	
01 22 23 00-0588 WK 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	53.54	
01 22 23 00-0589 MO 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	112.44 -4.50	
01 22 23 00-0590 Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	26.77	
01 22 23 00-0591 WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	58.90	
01 22 23 00-0592 MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	133.86 -5.35	
01 22 23 00-0593 Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	28.91	
01 22 23 00-0594 WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	68.84	
01 22 23 00-0595 MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	144.57 -5.78	
01 22 23 00-0596 Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	31.06	
01 22 23 00-0597 WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	73.94	
01 22 23 00-0598 MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	155.28 -6.21	
01 22 23 00-0599 Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	32.13	
01 22 23 00-0600 WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	76.49	
01 22 23 00-0601 MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat <i>For >6 Months (>26 Weeks) , Deduct</i>	160.64 -6.43	
01 22 23 00-0602 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	10.30	
01 22 23 00-0603 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	25.76	
01 22 23 00-0604 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) <i>For >6 Months (>26 Weeks) , Deduct</i>	77.27 -3.09	
01 22 23 00-0605 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	12.32	
01 22 23 00-0606 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	30.79	
01 22 23 00-0607 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) <i>For >6 Months (>26 Weeks) , Deduct</i>	92.37 -3.69	
01 22 23 00-0608 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.06	
01 22 23 00-0609 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	35.16	
01 22 23 00-0610 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) <i>For >6 Months (>26 Weeks) , Deduct</i>	105.48 -4.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0611	Day	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.99	
01 22 23 00-0612	WK	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	37.48	
01 22 23 00-0613	MO	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	112.44	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-4.50	
01 22 23 00-0614	Day	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.13	
01 22 23 00-0615	WK	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	42.84	
01 22 23 00-0616	MO	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	128.51	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-5.14	
01 22 23 00-0617	Day	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.69	
01 22 23 00-0618	WK	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	49.23	
01 22 23 00-0619	MO	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	147.68	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-5.91	
01 22 23 00-0620	Day	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	15.15	
01 22 23 00-0621	WK	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	37.87	
01 22 23 00-0622	MO	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	113.62	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-4.54	
01 22 23 00-0623	Day	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	20.51	
01 22 23 00-0624	WK	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	51.28	
01 22 23 00-0625	MO	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	153.83	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-6.15	
01 22 23 00-0626	Day	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.73	
01 22 23 00-0627	WK	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	44.34	
01 22 23 00-0628	MO	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	133.01	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-5.32	
01 22 23 00-0629	Day	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.58	
01 22 23 00-0630	WK	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	73.94	
01 22 23 00-0631	MO	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	221.83	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-8.87	
01 22 23 00-0632	Day	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	31.53	
01 22 23 00-0633	WK	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	78.82	
01 22 23 00-0634	MO	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	236.45	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-9.46	

01 22 23 00-0635 Electrical Equipment (01 22 23)

01 22 23 00-0636 Tripod Mounted Floodlights (01 22 23 00-0635)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0637	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	71.41	
01 22 23 00-0638	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	168.95	
01 22 23 00-0639	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	357.07	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-14.28	
01 22 23 00-0640	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	71.41	
01 22 23 00-0641	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	209.02	
01 22 23 00-0642	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	618.34	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-24.73	
01 22 23 00-0643	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	80.12	
01 22 23 00-0644	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	217.72	
01 22 23 00-0645	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	531.25	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-21.25	

01 22 23 00-0646 Trailer Mounted Floodlights (01 22 23 00-0635)

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0647	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	200.31	
01 22 23 00-0648	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	444.16	
01 22 23 00-0649	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	957.99	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-38.32	

01 22 23 00-0650 Generator Sets (01 22 23 00-0635)

01 22 23 00-0651 Portable, Gas Powered Generator Sets (01 22 23 00-0650)

Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0768 for reimbursable fuel fees.

01 22 23 00-0652	DAY	3.6 KW, 8 HP Gas Powered Generator Set	54.36	
		Note: Fuel consumption: 100% load – 0.54 gallons per hour		
		<i>For LP Or NG Gas, Add</i>	6.80	
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	27.18	
01 22 23 00-0653	WK	3.6 KW, 8 HP Gas Powered Generator Set	195.97	
		Note: Fuel consumption: 100% load – 0.54 gallons per hour		
		<i>For LP Or NG Gas, Add</i>	24.50	
01 22 23 00-0654	MO	3.6 KW, 8 HP Gas Powered Generator Set	543.65	
		Note: Fuel consumption: 100% load – 0.54 gallons per hour		
		<i>For LP Or NG Gas, Add</i>	67.96	
		<i>For >6 Months (>26 Weeks) , Deduct</i>	-21.75	
01 22 23 00-0655	DAY	5 KW, 11 HP Gas Powered Generator Set	77.12	
		Note: Fuel consumption: 100% load – 0.75 gallons per hour		
		<i>For LP Or NG Gas, Add</i>	9.64	
01 22 23 00-0656	WK	5 KW, 11 HP Gas Powered Generator Set	246.54	
		Note: Fuel consumption: 100% load – 0.75 gallons per hour		
		<i>For LP Or NG Gas, Add</i>	30.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0657 MO 5 KW, 11 HP Gas Powered Generator Set.....	562.61	
Note: Fuel consumption: 100% load – 0.75 gallons per hour		
For LP Or NG Gas, Add	70.33	
For >6 Months (>26 Weeks) , Deduct	-22.50	
01 22 23 00-0658 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	98.62	
Note: Fuel consumption: 100% load – 0.975 gallons per hour		
For LP Or NG Gas, Add	12.33	
01 22 23 00-0659 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	265.50	
Note: Fuel consumption: 100% load – 0.975 gallons per hour		
For LP Or NG Gas, Add	33.19	
01 22 23 00-0660 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	733.29	
Note: Fuel consumption: 100% load – 0.975 gallons per hour		
For LP Or NG Gas, Add	91.66	
For >6 Months (>26 Weeks) , Deduct	-29.33	
01 22 23 00-0661 DAY 10 KW, 18 HP Gas Powered Generator Set.....	109.99	
Note: Fuel consumption: 100% load – 1.5 gallons per hour		
For LP Or NG Gas, Add	13.75	
01 22 23 00-0662 WK 10 KW, 18 HP Gas Powered Generator Set.....	297.11	
Note: Fuel consumption: 100% load – 1.5 gallons per hour		
For LP Or NG Gas, Add	37.14	
01 22 23 00-0663 MO 10 KW, 18 HP Gas Powered Generator Set.....	853.40	
Note: Fuel consumption: 100% load – 1.5 gallons per hour		
For LP Or NG Gas, Add	106.68	
For >6 Months (>26 Weeks) , Deduct	-34.14	
01 22 23 00-0664 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0650)</small>		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0768 for reimbursable fuel fees.		
01 22 23 00-0665 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set	226.31	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	113.16	
For >16 To 24 Hours Usage Per Day, Add	226.31	
01 22 23 00-0666 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set	591.69	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	295.85	
For >80 Hours Usage Per Week, Add	591.69	
01 22 23 00-0667 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set	1,611.98	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	805.99	
For >320 Hours Usage Per Month, Add	1,611.98	
For >6 Months (>26 Weeks) , Deduct	-64.48	
01 22 23 00-0668 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set	365.92	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	182.96	
For >16 To 24 Hours Usage Per Day, Add	365.92	
01 22 23 00-0669 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set	1,085.97	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	542.99	
For >80 Hours Usage Per Week, Add	1,085.97	
01 22 23 00-0670 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set	2,242.76	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,121.38	
For >320 Hours Usage Per Month, Add	2,242.76	
For >6 Months (>26 Weeks) , Deduct	-89.71	
01 22 23 00-0671 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	401.34	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	200.67	
For >16 To 24 Hours Usage Per Day, Add	401.34	
01 22 23 00-0672 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,121.38	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	560.69	
For >80 Hours Usage Per Week, Add	1,121.38	
01 22 23 00-0673 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,478.84	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,239.42	
For >320 Hours Usage Per Month, Add	2,478.84	
For >6 Months (>26 Weeks) , Deduct	-99.15	
01 22 23 00-0674 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set	430.85	
Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	215.43	
For >16 To 24 Hours Usage Per Day, Add	430.85	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0675	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,180.40	
			Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	590.20	
			For >80 Hours Usage Per Week, Add	1,180.40	
01 22 23 00-0676	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,832.96	
			Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,416.48	
			For >320 Hours Usage Per Month, Add	2,832.96	
			For >6 Months (>26 Weeks) , Deduct	-113.32	
01 22 23 00-0677	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	472.16	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	236.08	
			For >16 To 24 Hours Usage Per Day, Add	472.16	
01 22 23 00-0678	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,339.75	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	669.88	
			For >80 Hours Usage Per Week, Add	1,339.75	
01 22 23 00-0679	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,187.08	
			Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,593.54	
			For >320 Hours Usage Per Month, Add	3,187.08	
			For >6 Months (>26 Weeks) , Deduct	-127.48	
01 22 23 00-0680	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	531.18	
			Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	265.59	
			For >16 To 24 Hours Usage Per Day, Add	531.18	
01 22 23 00-0681	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,416.48	
			Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	708.24	
			For >80 Hours Usage Per Week, Add	1,416.48	
01 22 23 00-0682	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,541.20	
			Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	1,770.60	
			For >320 Hours Usage Per Month, Add	3,541.20	
			For >6 Months (>26 Weeks) , Deduct	-141.65	
01 22 23 00-0683	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	548.89	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	274.45	
			For >16 To 24 Hours Usage Per Day, Add	548.89	
01 22 23 00-0684	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,475.50	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	737.75	
			For >80 Hours Usage Per Week, Add	1,475.50	
01 22 23 00-0685	MO		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,013.36	
			Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,006.68	
			For >320 Hours Usage Per Month, Add	4,013.36	
			For >6 Months (>26 Weeks) , Deduct	-160.53	
01 22 23 00-0686	DAY		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	619.71	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	309.86	
			For >16 To 24 Hours Usage Per Day, Add	619.71	
01 22 23 00-0687	WK		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,711.58	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	855.79	
			For >80 Hours Usage Per Week, Add	1,711.58	
01 22 23 00-0688	MO		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,603.56	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,301.78	
			For >320 Hours Usage Per Month, Add	4,603.56	
			For >6 Months (>26 Weeks) , Deduct	-184.14	
01 22 23 00-0689	DAY		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.22	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	324.61	
			For >16 To 24 Hours Usage Per Day, Add	649.22	
01 22 23 00-0690	WK		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,800.11	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	900.06	
			For >80 Hours Usage Per Week, Add	1,800.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0691 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,075.72 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 2,537.86 <i>For >320 Hours Usage Per Month, Add</i> 5,075.72 <i>For >6 Months (>26 Weeks) , Deduct</i> -203.03		
01 22 23 00-0692 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....678.73 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 339.37 <i>For >16 To 24 Hours Usage Per Day, Add</i> 678.73		
01 22 23 00-0693 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,947.66 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 973.83 <i>For >80 Hours Usage Per Week, Add</i> 1,947.66		
01 22 23 00-0694 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,311.80 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 2,655.90 <i>For >320 Hours Usage Per Month, Add</i> 5,311.80 <i>For >6 Months (>26 Weeks) , Deduct</i> -212.47		
01 22 23 00-0695 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....708.24 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 354.12 <i>For >16 To 24 Hours Usage Per Day, Add</i> 708.24		
01 22 23 00-0696 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,065.70 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,032.85 <i>For >80 Hours Usage Per Week, Add</i> 2,065.70		
01 22 23 00-0697 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,547.88 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 2,773.94 <i>For >320 Hours Usage Per Month, Add</i> 5,547.88 <i>For >6 Months (>26 Weeks) , Deduct</i> -221.92		
01 22 23 00-0698 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....708.24 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 354.12 <i>For >16 To 24 Hours Usage Per Day, Add</i> 708.24		
01 22 23 00-0699 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,065.70 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,032.85 <i>For >80 Hours Usage Per Week, Add</i> 2,065.70		
01 22 23 00-0700 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,547.88 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 2,773.94 <i>For >320 Hours Usage Per Month, Add</i> 5,547.88 <i>For >6 Months (>26 Weeks) , Deduct</i> -221.92		
01 22 23 00-0701 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....973.83 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 486.92 <i>For >16 To 24 Hours Usage Per Day, Add</i> 973.83		
01 22 23 00-0702 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,419.82 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,209.91 <i>For >80 Hours Usage Per Week, Add</i> 2,419.82		
01 22 23 00-0703 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,082.40 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,541.20 <i>For >320 Hours Usage Per Month, Add</i> 7,082.40 <i>For >6 Months (>26 Weeks) , Deduct</i> -283.30		
01 22 23 00-0704 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,032.85 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 516.43 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,032.85		
01 22 23 00-0705 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,478.84 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,239.42 <i>For >80 Hours Usage Per Week, Add</i> 2,478.84		
01 22 23 00-0706 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set7,318.48 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,659.24 <i>For >320 Hours Usage Per Month, Add</i> 7,318.48 <i>For >6 Months (>26 Weeks) , Deduct</i> -292.74		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0707	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,091.87	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	545.94	
			For >16 To 24 Hours Usage Per Day, Add	1,091.87	
01 22 23 00-0708	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,537.86	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,268.93	
			For >80 Hours Usage Per Week, Add	2,537.86	
01 22 23 00-0709	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,554.56	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,777.28	
			For >320 Hours Usage Per Month, Add	7,554.56	
			For >6 Months (>26 Weeks) , Deduct	-302.18	
01 22 23 00-0710	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,127.28	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	563.64	
			For >16 To 24 Hours Usage Per Day, Add	1,127.28	
01 22 23 00-0711	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,714.92	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,357.46	
			For >80 Hours Usage Per Week, Add	2,714.92	
01 22 23 00-0712	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	8,026.72	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	4,013.36	
			For >320 Hours Usage Per Month, Add	8,026.72	
			For >6 Months (>26 Weeks) , Deduct	-321.07	
01 22 23 00-0713	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,180.40	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	590.20	
			For >16 To 24 Hours Usage Per Day, Add	1,180.40	
01 22 23 00-0714	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,069.04	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,534.52	
			For >80 Hours Usage Per Week, Add	3,069.04	
01 22 23 00-0715	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	8,853.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	4,426.50	
			For >320 Hours Usage Per Month, Add	8,853.00	
			For >6 Months (>26 Weeks) , Deduct	-354.12	
01 22 23 00-0716	DAY		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,188.13	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,094.07	
			For >16 To 24 Hours Usage Per Day, Add	2,188.13	
01 22 23 00-0717	WK		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,657.36	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	2,828.68	
			For >80 Hours Usage Per Week, Add	5,657.36	
01 22 23 00-0718	MO		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	14,961.60	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	7,480.80	
			For >320 Hours Usage Per Month, Add	14,961.60	
			For >6 Months (>26 Weeks) , Deduct	-598.46	
01 22 23 00-0719	DAY		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,805.30	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,402.65	
			For >16 To 24 Hours Usage Per Day, Add	2,805.30	
01 22 23 00-0720	WK		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,293.78	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	3,646.89	
			For >80 Hours Usage Per Week, Add	7,293.78	
01 22 23 00-0721	MO		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,831.80	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	8,415.90	
			For >320 Hours Usage Per Month, Add	16,831.80	
			For >6 Months (>26 Weeks) , Deduct	-673.27	
01 22 23 00-0722	DAY		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,469.22	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,734.61	
			For >16 To 24 Hours Usage Per Day, Add	3,469.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0723 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set .....9,163.98 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 4,581.99 For >80 Hours Usage Per Week, Add 9,163.98	9,163.98	
01 22 23 00-0724 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set .....22,442.40 Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 11,221.20 For >320 Hours Usage Per Month, Add 22,442.40 For >6 Months (>26 Weeks) , Deduct -897.70	22,442.40	
01 22 23 00-0725 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set .....3,749.75 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 1,874.88 For >16 To 24 Hours Usage Per Day, Add 3,749.75	3,749.75	
01 22 23 00-0726 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set .....8,640.32 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 4,320.16 For >80 Hours Usage Per Week, Add 8,640.32	8,640.32	
01 22 23 00-0727 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set .....25,920.97 Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 12,960.49 For >320 Hours Usage Per Month, Add 25,920.97 For >6 Months (>26 Weeks) , Deduct -1,036.64	25,920.97	
01 22 23 00-0728 DAY 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....4,254.70 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.	4,254.70	
01 22 23 00-0729 WK 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....11,118.34 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.	11,118.34	
01 22 23 00-0730 MO 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....30,456.21 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour. For >6 Months (>26 Weeks) , Deduct -1,218.25	30,456.21	
01 22 23 00-0731 DAY 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....5,610.60 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.	5,610.60	
01 22 23 00-0732 WK 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....16,831.80 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.	16,831.80	
01 22 23 00-0733 MO 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....48,260.51 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour. For >6 Months (>26 Weeks) , Deduct -1,930.42	48,260.51	
01 22 23 00-0734 DAY 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....7,396.64 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.	7,396.64	
01 22 23 00-0735 WK 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....18,496.28 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.	18,496.28	
01 22 23 00-0736 MO 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....50,495.40 Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour. For >6 Months (>26 Weeks) , Deduct -2,019.82	50,495.40	
01 22 23 00-0737 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....967.67	967.67	
01 22 23 00-0738 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up .....1,581.22	1,581.22	
01 22 23 00-0739 EA 1,000 To 2,000 KW Generator Set Delivery, Set-Up, Testing And Pick-up .....2,690.28	2,690.28	
01 22 23 00-0740 Cabling For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0741 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set .....25.97	25.97	
01 22 23 00-0742 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set .....45.45	45.45	
01 22 23 00-0743 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set .....136.34 For >6 Months (>26 Weeks) , Deduct -5.45	136.34	
01 22 23 00-0744 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....12.98	12.98	
01 22 23 00-0745 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....37.77	37.77	
01 22 23 00-0746 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....105.06 For >6 Months (>26 Weeks) , Deduct -4.20	105.06	
01 22 23 00-0747 Resistive Loadbanks For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0768 for reimbursable fuel fees.		
01 22 23 00-0748 DAY 100 KW A/C Resistive Loadbank.....360.70	360.70	
01 22 23 00-0749 WK 100 KW A/C Resistive Loadbank.....686.03	686.03	
01 22 23 00-0750 MO 100 KW A/C Resistive Loadbank.....1,874.20 For >6 Months (>26 Weeks) , Deduct -74.97	1,874.20	
01 22 23 00-0751 DAY 650 KW A/C Resistive Loadbank.....758.73	758.73	
01 22 23 00-0752 WK 650 KW A/C Resistive Loadbank.....2,029.02	2,029.02	
01 22 23 00-0753 MO 650 KW A/C Resistive Loadbank.....5,173.15 For >6 Months (>26 Weeks) , Deduct -206.93	5,173.15	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0754	Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0650)</small>	
	Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-0755	DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	63.74
01 22 23 00-0756	WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	165.26
01 22 23 00-0757	MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	466.26
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-18.65</i>

01 22 23 00-0758	Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0650)</small>	
	Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-0759	DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	141.65
01 22 23 00-0760	WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	383.63
01 22 23 00-0761	MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	1,074.16
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-42.97</i>
01 22 23 00-0762	DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	115.68
01 22 23 00-0763	WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	301.00
01 22 23 00-0764	MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	855.79
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-34.23</i>
01 22 23 00-0765	DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	147.55
01 22 23 00-0766	WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	371.83
01 22 23 00-0767	MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	1,009.24
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-40.37</i>

01 22 23 00-0768	Fuel Reimbursement For Generators <small>(01 22 23 00-0650)</small>	
01 22 23 00-0769	EA Fuel Reimbursement For Generators	1.00
	Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.	

01 22 23 00-0770 **Generator Accessories** (01 22 23 00-0650)
Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0771	Step Down Transformer <small>(01 22 23 00-0770)</small>	
01 22 23 00-0772	WK 75 KVA, 480-208 Volt, Step Down Transformer	348.22
01 22 23 00-0773	MO 75 KVA, 480-208 Volt, Step Down Transformer	973.83
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-38.95</i>
01 22 23 00-0774	WK 150 KVA, 480-208 Volt, Step Down Transformer	558.33
01 22 23 00-0775	MO 150 KVA, 480-208 Volt, Step Down Transformer	1,673.81
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-66.95</i>
01 22 23 00-0776	WK 225 KVA, 480-208 Volt, Step Down Transformer	743.65
01 22 23 00-0777	MO 225 KVA, 480-208 Volt, Step Down Transformer	2,230.96
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-89.24</i>
01 22 23 00-0778	WK 500 KVA, 480-208 Volt, Step Down Transformer	885.30
01 22 23 00-0779	MO 500 KVA, 480-208 Volt, Step Down Transformer	2,655.90
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-106.24</i>
01 22 23 00-0780	WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer	1,322.05
01 22 23 00-0781	MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer	3,948.44
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-157.94</i>
01 22 23 00-0782	WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer	2,148.33
01 22 23 00-0783	MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer	6,439.08
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-257.56</i>
01 22 23 00-0784	WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	2,478.84
01 22 23 00-0785	MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	7,436.52
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-297.46</i>

01 22 23 00-0786	Portable Panel <small>(01 22 23 00-0770)</small>	
01 22 23 00-0787	WK 100 Amperes, Portable Panel	277.39
01 22 23 00-0788	MO 100 Amperes, Portable Panel	708.24
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-28.33</i>
01 22 23 00-0789	WK 200 Amperes, Portable Panel	331.69
01 22 23 00-0790	MO 200 Amperes, Portable Panel	885.30
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-35.41</i>
01 22 23 00-0791	WK 400 Amperes, Portable Panel	354.12
01 22 23 00-0792	MO 400 Amperes, Portable Panel	1,062.36
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-42.49</i>

01 22 23 00-0793	Portable Fusible Disconnect <small>(01 22 23 00-0770)</small>	
01 22 23 00-0794	WK 100 - 200 Amperes, Portable Fusible Disconnect	123.94
01 22 23 00-0795	MO 100 - 200 Amperes, Portable Fusible Disconnect	371.83
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-14.87</i>
01 22 23 00-0796	WK 300 - 400 Amperes, Portable Fusible Disconnect	247.88
01 22 23 00-0797	MO 300 - 400 Amperes, Portable Fusible Disconnect	743.65
	<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-29.75</i>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0798 Portable Transfer Switch <small>(01 22 23 00-0770)</small>		
01 22 23 00-0799 WK 100 Amperes, 480 Volt, Portable Transfer Switch	371.83	
01 22 23 00-0800 MO 100 Amperes, 480 Volt, Portable Transfer Switch	1,115.48	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-44.62	
01 22 23 00-0801 WK 200 Amperes, 480 Volt, Portable Transfer Switch	495.77	
01 22 23 00-0802 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,487.30	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-59.49	
01 22 23 00-0803 WK 400 Amperes, 480 Volt, Portable Transfer Switch	619.71	
01 22 23 00-0804 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,859.13	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-74.37	
01 22 23 00-0805 Welding Machines <small>(01 22 23 00-0635)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0806 CC/CV Inverter Welder <small>(01 22 23 00-0805)</small>		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0768 for reimbursable fuel fees.		
01 22 23 00-0807 DAY 250 Amperes, CC Inverter Welder.....	46.42	
01 22 23 00-0808 WK 250 Amperes, CC Inverter Welder.....	101.13	
01 22 23 00-0809 MO 250 Amperes, CC Inverter Welder.....	306.71	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-12.27	
01 22 23 00-0810 DAY 300 Amperes, CC/CV Inverter Welder.....	53.05	
01 22 23 00-0811 WK 300 Amperes, CC/CV Inverter Welder.....	140.92	
01 22 23 00-0812 MO 300 Amperes, CC/CV Inverter Welder.....	373.03	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-14.92	
01 22 23 00-0813 DAY 350 Amperes, CC/CV Inverter Welder.....	54.71	
01 22 23 00-0814 WK 350 Amperes, CC/CV Inverter Welder.....	144.24	
01 22 23 00-0815 MO 350 Amperes, CC/CV Inverter Welder.....	406.19	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-16.25	
01 22 23 00-0816 MIG Welder <small>(01 22 23 00-0805)</small>		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0768 for reimbursable fuel fees.		
01 22 23 00-0817 DAY 115 Volt MIG Welder	79.58	
01 22 23 00-0818 WK 115 Volt MIG Welder	207.24	
01 22 23 00-0819 MO 115 Volt MIG Welder	563.69	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-22.55	
01 22 23 00-0820 Diesel Powered Towable Welding Machines <small>(01 22 23 00-0805)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0821 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine	149.21	
01 22 23 00-0822 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine	364.74	
01 22 23 00-0823 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine	870.40	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-34.82	
01 22 23 00-0824 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine	198.95	
01 22 23 00-0825 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	389.61	
01 22 23 00-0826 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	910.19	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-36.41	
01 22 23 00-0827 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	207.24	
01 22 23 00-0828 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	414.48	
01 22 23 00-0829 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	1,011.32	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-40.45	
01 22 23 00-0830 General Equipment <small>(01 22 23)</small>		
01 22 23 00-0831 Jacks And Bracing <small>(01 22 23 00-0830)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0832 Manual Hydraulic Jacks <small>(01 22 23 00-0831)</small>		
01 22 23 00-0833 DAY 12 Ton Manual Hydraulic Bottle Jack	1.67	
01 22 23 00-0834 WK 12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0835 MO 12 Ton Manual Hydraulic Bottle Jack	28.50	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-1.14	
01 22 23 00-0836 DAY 20 Ton Manual Hydraulic Bottle Jack	2.92	
01 22 23 00-0837 WK 20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0838 MO 20 Ton Manual Hydraulic Bottle Jack	34.76	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-1.39	
01 22 23 00-0839 DAY 50 Ton Manual Hydraulic Bottle Jack	10.43	
01 22 23 00-0840 WK 50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0841 MO 50 Ton Manual Hydraulic Bottle Jack	145.66	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-5.83	
01 22 23 00-0842 DAY 100 Ton Manual Hydraulic Bottle Jack	14.61	
01 22 23 00-0843 WK 100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0844 MO 100 Ton Manual Hydraulic Bottle Jack	210.46	
<i>For >6 Months (>26 Weeks) , Deduct</i>		
	-8.42	
01 22 23 00-0845 Manual Screw Jacks <small>(01 22 23 00-0831)</small>		
01 22 23 00-0846 DAY 10 To 20 Ton Manual Screw Jack	17.75	
01 22 23 00-0847 WK 10 To 20 Ton Manual Screw Jack	46.99	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0848 MO 10 To 20 Ton Manual Screw Jack <i>For >6 Months (>26 Weeks) , Deduct</i>	140.97 -5.64	
01 22 23 00-0849 Pressure Washers <small>(01 22 23 00-0830)</small> Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0850 DAY 2,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	828.80 -713.86	
01 22 23 00-0851 WK 2,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,861.07 -3,569.30	
01 22 23 00-0852 MO 2,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,209.66 -15,466.97 -29.71	
01 22 23 00-0853 DAY 2,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	828.80 -713.86	
01 22 23 00-0854 WK 2,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,861.07 -3,569.30	
01 22 23 00-0855 MO 2,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,209.66 -15,466.97 -29.71	
01 22 23 00-0856 DAY 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	828.80 -713.86	
01 22 23 00-0857 WK 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,861.07 -3,569.30	
01 22 23 00-0858 MO 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,209.66 -15,466.97 -29.71	
01 22 23 00-0859 DAY 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	837.64 -713.86	
01 22 23 00-0860 WK 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,887.59 -3,569.30	
01 22 23 00-0861 MO 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,280.39 -15,466.97 -32.54	
01 22 23 00-0862 DAY 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	873.01 -713.86	
01 22 23 00-0863 WK 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,002.53 -3,569.30	
01 22 23 00-0864 MO 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,678.26 -15,466.97 -48.45	
01 22 23 00-0865 DAY 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	890.69 -713.86	
01 22 23 00-0866 WK 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,046.74 -3,569.30	
01 22 23 00-0867 MO 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	16,810.88 -15,466.97 -53.76	
01 22 23 00-0868 Confined Space Entry Equipment <small>(01 22 23 00-0830)</small> Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0869 DAY Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	46.36	
01 22 23 00-0870 WK Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	139.07	
01 22 23 00-0871 MO Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	414.99 -16.60	
01 22 23 00-0872 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	64.20	
01 22 23 00-0873 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	192.60	
01 22 23 00-0874 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly <i>For >6 Months (>26 Weeks) , Deduct</i>	577.80 -23.11	
01 22 23 00-0875 DAY Confined Space Air Monitor Personnel Note: Per person day.	924.06	
01 22 23 00-0876 Mowers <small>(01 22 23 00-0830)</small> Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0877 DAY 21" Walk Behind Lawn Mower	93.91	
01 22 23 00-0878 WK 21" Walk Behind Lawn Mower	270.00	
01 22 23 00-0879 MO 21" Walk Behind Lawn Mower <i>For >6 Months (>26 Weeks) , Deduct</i>	551.73 -22.07	
01 22 23 00-0880 DAY 32" Walk Behind Lawn Mower	117.39	
01 22 23 00-0881 WK 32" Walk Behind Lawn Mower	281.74	
01 22 23 00-0882 MO 32" Walk Behind Lawn Mower <i>For >6 Months (>26 Weeks) , Deduct</i>	586.95 -23.48	
01 22 23 00-0883 DAY 36" To 48" Walk Behind Deck Mower	211.30	
01 22 23 00-0884 WK 36" To 48" Walk Behind Deck Mower	586.95	
01 22 23 00-0885 MO 36" To 48" Walk Behind Deck Mower <i>For >6 Months (>26 Weeks) , Deduct</i>	1,702.16 -68.09	
01 22 23 00-0886 DAY 61" To 72" Walk Behind Deck Mower	211.30	
01 22 23 00-0887 WK 61" To 72" Walk Behind Deck Mower	586.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0888	MO		61" To 72" Walk Behind Deck Mower <i>For >6 Months (>26 Weeks) , Deduct</i>	1,702.16 -68.09	
01 22 23 00-0889			Trailer Mounted Brush Chipper (01 22 23 00-0830) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0890	DAY		4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	238.26	
01 22 23 00-0891	WK		4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	569.74	
01 22 23 00-0892	MO		4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up <i>For >6 Months (>26 Weeks) , Deduct</i>	1,750.67 -70.03	
01 22 23 00-0893	DAY		6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	310.77	
01 22 23 00-0894	WK		6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	700.27	
01 22 23 00-0895	MO		6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up <i>For >6 Months (>26 Weeks) , Deduct</i>	1,864.62 -74.58	
01 22 23 00-0896	DAY		9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	580.10	
01 22 23 00-0897	WK		9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,305.23	
01 22 23 00-0898	MO		9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up <i>For >6 Months (>26 Weeks) , Deduct</i>	3,480.62 -139.22	
01 22 23 00-0899	DAY		12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	522.72	
01 22 23 00-0900	WK		12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,176.12	
01 22 23 00-0901	MO		12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up <i>For >6 Months (>26 Weeks) , Deduct</i>	3,136.32 -125.45	
01 22 23 00-0902			Material Handling Equipment (01 22 23)		
01 22 23 00-0903			Truck Mounted Hydraulic Cranes (01 22 23 00-0902) Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0904	DAY		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,432.27 -991.02	
01 22 23 00-0905	WK		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,291.83 -4,955.10	
01 22 23 00-0906	MO		6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	25,495.28 -21,472.10 -160.93	
01 22 23 00-0907	DAY		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,549.07 -991.02	
01 22 23 00-0908	WK		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,639.00 -4,955.10	
01 22 23 00-0909	MO		8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	26,533.52 -21,472.10 -202.46	
01 22 23 00-0910	DAY		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,665.88 -991.02	
01 22 23 00-0911	WK		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,986.16 -4,955.10	
01 22 23 00-0912	MO		14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	27,571.76 -21,472.10 -243.99	
01 22 23 00-0913	DAY		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,821.61 -991.02	
01 22 23 00-0914	WK		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,453.36 -4,955.10	
01 22 23 00-0915	MO		20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	28,966.90 -21,472.10 -299.79	
01 22 23 00-0916	DAY		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,964.37 -991.02	
01 22 23 00-0917	WK		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,420.23 -4,955.10	
01 22 23 00-0918	MO		30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	31,864.88 -21,472.10 -415.71	
01 22 23 00-0919	DAY		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,301.80 -991.02	
01 22 23 00-0920	WK		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,627.18 -4,955.10	
01 22 23 00-0921	MO		40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	35,488.34 -21,472.10 -560.65	
01 22 23 00-0922	DAY		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,515.94 -991.02	
01 22 23 00-0923	WK		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,379.90 -4,955.10	
01 22 23 00-0924	MO		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	37,751.70 -21,472.10 -651.18	
01 22 23 00-0925	DAY		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,684.65 -991.02	
01 22 23 00-0926	WK		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,989.87 -4,955.10	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0927	MO		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	39,579.01 -21,472.10 -724.28	
01 22 23 00-0928	DAY		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,853.36 -991.02	
01 22 23 00-0929	WK		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,599.84 -4,955.10	
01 22 23 00-0930	MO		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	41,406.31 -21,472.10 -797.37	
01 22 23 00-0931	DAY		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,963.68 -991.02	
01 22 23 00-0932	WK		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,976.20 -4,955.10	
01 22 23 00-0933	MO		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	42,548.37 -21,472.10 -843.05	
01 22 23 00-0934	DAY		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,112.92 -991.02	
01 22 23 00-0935	WK		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,534.25 -4,955.10	
01 22 23 00-0936	MO		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	44,209.56 -21,472.10 -909.50	
01 22 23 00-0937	DAY		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,593.11 -991.02 -1,040.84	
01 22 23 00-0938	WK		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,062.41 -4,955.10	
01 22 23 00-0939	MO		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	48,794.03 -21,472.10 -1,092.88	
01 22 23 00-0940	DAY		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,924.05 -991.02 -1,173.21	
01 22 23 00-0941	WK		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,220.70 -4,955.10	
01 22 23 00-0942	MO		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	52,268.89 -21,472.10 -1,231.87	
01 22 23 00-0943	DAY		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,521.04 -991.02 -1,412.01	
01 22 23 00-0944	WK		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,310.16 -4,955.10	
01 22 23 00-0945	MO		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	58,537.27 -21,472.10 -1,482.61	
01 22 23 00-0946	DAY		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,936.33 -991.02 -1,578.12	
01 22 23 00-0947	WK		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,763.69 -4,955.10	
01 22 23 00-0948	MO		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	62,897.88 -21,472.10 -1,657.03	
01 22 23 00-0949			Cable Controlled Lattice Boom, Mechanical Cranes <small>(01 22 23 00-0902)</small> Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0950	DAY		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,548.38 -991.02	
01 22 23 00-0951	WK		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	10,509.68 -4,955.10	
01 22 23 00-0952	MO		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	38,135.85 -21,472.10 -666.55	
01 22 23 00-0953	DAY		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	3,748.84 -991.02	
01 22 23 00-0954	WK		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	12,508.30 -4,955.10	
01 22 23 00-0955	MO		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	44,131.69 -21,472.10 -906.38	
01 22 23 00-0956	DAY		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,943.52 -991.02	
01 22 23 00-0957	WK		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,929.39 -4,955.10	
01 22 23 00-0958	MO		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks) , Deduct</i>	48,393.66 -21,472.10 -1,076.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0959 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,332.86	
<i>For Equipment Without Operator, Deduct</i>	-991.02	
01 22 23 00-0960 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	15,350.48	
<i>For Equipment Without Operator, Deduct</i>	-4,955.10	
01 22 23 00-0961 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	52,650.45	
<i>For Equipment Without Operator, Deduct</i>	-21,472.10	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,247.13	
01 22 23 00-0962 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,517.79	
<i>For Equipment Without Operator, Deduct</i>	-991.02	
01 22 23 00-0963 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,771.57	
<i>For Equipment Without Operator, Deduct</i>	-4,955.10	
01 22 23 00-0964 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	56,917.61	
<i>For Equipment Without Operator, Deduct</i>	-21,472.10	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,417.82	
01 22 23 00-0965 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,702.73	
<i>For Equipment Without Operator, Deduct</i>	-991.02	
01 22 23 00-0966 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	18,192.66	
<i>For Equipment Without Operator, Deduct</i>	-4,955.10	
01 22 23 00-0967 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	61,184.78	
<i>For Equipment Without Operator, Deduct</i>	-21,472.10	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,588.51	
01 22 23 00-0968 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,312.69	
<i>For Equipment Without Operator, Deduct</i>	-991.02	
01 22 23 00-0969 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	20,379.45	
<i>For Equipment Without Operator, Deduct</i>	-4,955.10	
01 22 23 00-0970 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	67,736.07	
<i>For Equipment Without Operator, Deduct</i>	-21,472.10	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-1,850.56	
01 22 23 00-0971 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	9,063.34	
<i>For Equipment Without Operator, Deduct</i>	-991.02	
01 22 23 00-0972 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	33,746.79	
<i>For Equipment Without Operator, Deduct</i>	-4,955.10	
01 22 23 00-0973 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	107,853.67	
<i>For Equipment Without Operator, Deduct</i>	-21,472.10	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-3,455.26	
01 22 23 00-0974 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts <small>(01 22 23 00-0902)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0975 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,579.37	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0976 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,224.09	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0977 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	23,470.35	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-137.96	
01 22 23 00-0978 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,648.35	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0979 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,379.30	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0980 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	23,815.25	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-151.76	
01 22 23 00-0981 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,631.10	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0982 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,456.90	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0983 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	24,332.60	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-172.45	
01 22 23 00-0984 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,829.42	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
01 22 23 00-0985 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,974.25	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
01 22 23 00-0986 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,539.75	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-220.74	
01 22 23 00-0987 Straight Mast, Rough Terrain Construction Forklifts <small>(01 22 23 00-0902)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0988 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,350.01	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	85.19	
01 22 23 00-0989 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	5,783.49	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	232.64	
01 22 23 00-0990 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	22,683.55	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	532.44	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-106.49	

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01 22 23 00-0991 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,372.43	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	89.67	
01 22 23 00-0992 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,844.71	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	244.88	
01 22 23 00-0993 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	22,823.66	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	560.46	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-112.09	
01 22 23 00-0994 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,493.14	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.82	
01 22 23 00-0995 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	6,180.98	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	312.13	
01 22 23 00-0996 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	23,599.69	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	715.67	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-143.13	
01 22 23 00-0997 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,559.62	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	127.11	
01 22 23 00-0998 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	6,152.18	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	306.37	
01 22 23 00-0999 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	23,834.74	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	762.68	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-152.54	
01 22 23 00-1000 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0902)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-1001 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,286.20	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	72.43	
01 22 23 00-1002 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,448.07	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	165.55	
01 22 23 00-1003 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,004.53	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	396.64	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-79.33	
01 22 23 00-1004 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,294.83	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	74.15	
01 22 23 00-1005 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,473.94	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	170.73	
01 22 23 00-1006 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,064.88	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	408.71	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-81.74	
01 22 23 00-1007 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,475.90	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	110.37	
01 22 23 00-1008 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,870.57	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	250.05	
01 22 23 00-1009 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	23,039.23	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	603.58	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-120.72	
01 22 23 00-1010 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,493.14	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.82	
01 22 23 00-1011 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	6,017.15	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	279.37	
01 22 23 00-1012 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	23,556.57	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	707.04	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-141.41	
01 22 23 00-1013 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,648.35	
<i>For Equipment Without Operator, Deduct</i>	-924.06	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	144.86	
01 22 23 00-1014 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	6,267.21	
<i>For Equipment Without Operator, Deduct</i>	-4,620.31	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	329.38	
01 22 23 00-1015 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	23,987.70	
<i>For Equipment Without Operator, Deduct</i>	-20,021.35	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	793.27	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-158.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1016	Chain Hoists <small>(01 22 23 00-0902)</small> Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-1017	DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52
01 22 23 00-1018	WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55
01 22 23 00-1019	MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-3.86
01 22 23 00-1020	DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06
01 22 23 00-1021	WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63
01 22 23 00-1022	MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-9.26
01 22 23 00-1023	DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07
01 22 23 00-1024	WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44
01 22 23 00-1025	MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-13.52
01 22 23 00-1026	DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89
01 22 23 00-1027	WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62
01 22 23 00-1028	MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-25.04
01 22 23 00-1029	DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14
01 22 23 00-1030	WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01
01 22 23 00-1031	MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-26.29
01 22 23 00-1032	DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65
01 22 23 00-1033	WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79
01 22 23 00-1034	MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-28.80

01 22 23 00-1035	Roof Swing Hoist <small>(01 22 23 00-0902)</small> Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-1036	DAY Up To 400 Lbs, Manual Swing Roof Hoist	100.36
01 22 23 00-1037	WK Up To 400 Lbs, Manual Swing Roof Hoist	351.26
01 22 23 00-1038	MO Up To 400 Lbs, Manual Swing Roof Hoist	1,204.32
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-48.17

01 22 23 00-1039	Truck Mounted Digger Derrick <small>(01 22 23 00-0902)</small> Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.	
01 22 23 00-1040	DAY Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,605.37
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-991.02
01 22 23 00-1041	WK Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	6,798.15
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,955.10
01 22 23 00-1042	MO Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	26,386.91
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-21,472.10
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-196.59
01 22 23 00-1043	DAY Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,731.65
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-991.02
01 22 23 00-1044	WK Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	7,176.98
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,955.10
01 22 23 00-1045	MO Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	27,397.11
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-21,472.10
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-237.00
01 22 23 00-1046	DAY Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	2,511.95
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-991.02
01 22 23 00-1047	WK Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	9,517.90
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,955.10
01 22 23 00-1048	MO Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	33,639.56
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-21,472.10
	<i>For >6 Months (>26 Weeks) , Deduct</i>	-486.70

01 22 23 00-1049	Pumping Equipment <small>(01 22 23)</small>	
01 22 23 00-1050	Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-1049)</small> Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1074 for larger diameter pumps.	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1051	DAY	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	72.53
01 22 23 00-1052	WK	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	163.20
01 22 23 00-1053	MO	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	435.19
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-17.41</i>
01 22 23 00-1054	DAY	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	87.04
01 22 23 00-1055	WK	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	195.84
01 22 23 00-1056	MO	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	522.23
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-20.89</i>

01 22 23 00-1057 Gas Powered Portable Diaphragm Pumps (01 22 23 00-1049)

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

01 22 23 00-1058	DAY	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	83.41
01 22 23 00-1059	WK	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	235.73
01 22 23 00-1060	MO	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	598.39
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-23.94</i>
01 22 23 00-1061	DAY	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	101.54
01 22 23 00-1062	WK	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	272.00
01 22 23 00-1063	MO	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	770.65
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-30.83</i>

01 22 23 00-1064 Gas Powered Portable Trash Pumps (01 22 23 00-1049)

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

01 22 23 00-1065	DAY	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	105.17
01 22 23 00-1066	WK	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	217.60
01 22 23 00-1067	MO	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	652.79
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-26.11</i>
01 22 23 00-1068	DAY	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	105.17
01 22 23 00-1069	WK	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	281.06
01 22 23 00-1070	MO	25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	770.65
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-30.83</i>
01 22 23 00-1071	DAY	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	166.82
01 22 23 00-1072	WK	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	471.46
01 22 23 00-1073	MO	35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,369.04
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-54.76</i>

01 22 23 00-1074 Diesel Powered Portable Trash Pumps (01 22 23 00-1049)

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

01 22 23 00-1075	DAY	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	326.39
01 22 23 00-1076	WK	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	888.52
01 22 23 00-1077	MO	63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,871.40
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-154.86</i>
01 22 23 00-1078	DAY	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	498.66
01 22 23 00-1079	WK	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,305.58
01 22 23 00-1080	MO	156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,472.47
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-138.90</i>
01 22 23 00-1081	DAY	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	678.17
01 22 23 00-1082	WK	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,815.11
01 22 23 00-1083	MO	246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,856.02
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-194.24</i>
01 22 23 00-1084	DAY	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	877.64
01 22 23 00-1085	WK	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,241.24
01 22 23 00-1086	MO	379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	6,582.28
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-263.29</i>

01 22 23 00-1087 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1049)

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

01 22 23 00-1088	DAY	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	466.02
01 22 23 00-1089	WK	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,060.78
01 22 23 00-1090	MO	90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,307.46
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-132.30</i>
01 22 23 00-1091	DAY	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	571.19
01 22 23 00-1092	WK	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,423.44
01 22 23 00-1093	MO	136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,871.40
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-154.86</i>
01 22 23 00-1094	DAY	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	689.05
01 22 23 00-1095	WK	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,038.15
01 22 23 00-1096	MO	246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,684.70
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-227.39</i>
01 22 23 00-1097	DAY	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,037.21
01 22 23 00-1098	WK	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,649.23
01 22 23 00-1099	MO	510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,779.06
		<i>For >6 Months (>26 Weeks) , Deduct</i>	<i>-311.16</i>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1100 3 Phase Electric Submersible Pumps (01 22 23 00-1049)
 Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1101	DAY	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	181.33
01 22 23 00-1102	WK	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	453.32
01 22 23 00-1103	MO	24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,359.98
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-54.40</i>
01 22 23 00-1104	DAY	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	239.36
01 22 23 00-1105	WK	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	598.39
01 22 23 00-1106	MO	49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,795.17
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-71.81</i>

01 22 23 00-1107 Suction Hose With Couplings (01 22 23 00-1049)
 Note: Includes delivery, set-up, and removal.

01 22 23 00-1108	DAY	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	5.76
01 22 23 00-1109	WK	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	14.40
01 22 23 00-1110	MO	Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	44.16
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-1.77</i>
01 22 23 00-1111	DAY	3" Inside Diameter, 20' Length, Suction Hose With Couplings	15.36
01 22 23 00-1112	WK	3" Inside Diameter, 20' Length, Suction Hose With Couplings	39.36
01 22 23 00-1113	MO	3" Inside Diameter, 20' Length, Suction Hose With Couplings	120.00
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-4.80</i>
01 22 23 00-1114	DAY	4" Inside Diameter, 20' Length, Suction Hose With Couplings	23.04
01 22 23 00-1115	WK	4" Inside Diameter, 20' Length, Suction Hose With Couplings	58.56
01 22 23 00-1116	MO	4" Inside Diameter, 20' Length, Suction Hose With Couplings	177.60
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-7.10</i>
01 22 23 00-1117	DAY	6" Inside Diameter, 20' Length, Suction Hose With Couplings	28.80
01 22 23 00-1118	WK	6" Inside Diameter, 20' Length, Suction Hose With Couplings	72.00
01 22 23 00-1119	MO	6" Inside Diameter, 20' Length, Suction Hose With Couplings	211.20
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-8.45</i>
01 22 23 00-1120	DAY	10" Inside Diameter, 20' Length, Suction Hose With Couplings	67.20
01 22 23 00-1121	WK	10" Inside Diameter, 20' Length, Suction Hose With Couplings	172.80
01 22 23 00-1122	MO	10" Inside Diameter, 20' Length, Suction Hose With Couplings	508.80
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-20.35</i>
01 22 23 00-1123	DAY	12" Inside Diameter, 20' Length, Suction Hose With Couplings	90.24
01 22 23 00-1124	WK	12" Inside Diameter, 20' Length, Suction Hose With Couplings	196.80
01 22 23 00-1125	MO	12" Inside Diameter, 20' Length, Suction Hose With Couplings	590.40
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-23.62</i>

01 22 23 00-1126 Discharge Hose With Couplings (01 22 23 00-1049)
 Note: Includes delivery, set-up, and removal.

01 22 23 00-1127	DAY	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.76
01 22 23 00-1128	WK	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	14.40
01 22 23 00-1129	MO	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	44.16
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-1.77</i>
01 22 23 00-1130	DAY	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.72
01 22 23 00-1131	WK	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	16.32
01 22 23 00-1132	MO	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	50.88
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-2.04</i>
01 22 23 00-1133	DAY	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.68
01 22 23 00-1134	WK	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	19.20
01 22 23 00-1135	MO	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	58.56
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-2.34</i>
01 22 23 00-1136	DAY	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.16
01 22 23 00-1137	WK	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	51.84
01 22 23 00-1138	MO	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	148.80
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-5.95</i>
01 22 23 00-1139	DAY	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	24.96
01 22 23 00-1140	WK	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	68.16
01 22 23 00-1141	MO	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	187.20
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-7.49</i>
01 22 23 00-1142	DAY	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	19.20
01 22 23 00-1143	WK	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	48.00
01 22 23 00-1144	MO	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	144.00
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-5.76</i>
01 22 23 00-1145	DAY	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	48.96
01 22 23 00-1146	WK	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	124.80
01 22 23 00-1147	MO	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	369.60
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-14.78</i>

01 22 23 00-1148 Hydraulic Submersible Pumps (01 22 23 00-1049)
 Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1149 Hydraulic Submersible Pumps (01 22 23 00-1148)
 Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1150	DAY	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	119.68
01 22 23 00-1151	WK	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	320.95
01 22 23 00-1152	MO	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	897.58
<i>For >6 Months (>26 Weeks) , Deduct</i>			<i>-35.90</i>

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1153	DAY	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	152.32
01 22 23 00-1154	WK	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	391.67
01 22 23 00-1155	MO	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,196.78
<i>For >6 Months (>26 Weeks) , Deduct</i>			-47.87

01 22 23 00-1156 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1148)

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

01 22 23 00-1157	DAY	100 HP, Hydraulic Submersible Pump Diesel Power Pack	276.53
01 22 23 00-1158	WK	100 HP, Hydraulic Submersible Pump Diesel Power Pack	825.05
01 22 23 00-1159	MO	100 HP, Hydraulic Submersible Pump Diesel Power Pack	2,175.96
<i>For >6 Months (>26 Weeks) , Deduct</i>			-87.04

01 22 23 00-1160 HDPE Pipe With Couplings (01 22 23 00-1049)

Note: Includes delivery, set-up, and removal.

01 22 23 00-1161	DAY	4" x 50' HDPE Pipe With Couplings	12.10
01 22 23 00-1162	WK	4" x 50' HDPE Pipe With Couplings	29.03
01 22 23 00-1163	MO	4" x 50' HDPE Pipe With Couplings	89.52
<i>For >6 Months (>26 Weeks) , Deduct</i>			-3.58
01 22 23 00-1164	DAY	6" x 50' HDPE Pipe With Couplings	19.36
01 22 23 00-1165	WK	6" x 50' HDPE Pipe With Couplings	48.39
01 22 23 00-1166	MO	6" x 50' HDPE Pipe With Couplings	147.58
<i>For >6 Months (>26 Weeks) , Deduct</i>			-5.90
01 22 23 00-1167	DAY	8" x 50' HDPE Pipe With Couplings	31.45
01 22 23 00-1168	WK	8" x 50' HDPE Pipe With Couplings	82.26
01 22 23 00-1169	MO	8" x 50' HDPE Pipe With Couplings	244.36
<i>For >6 Months (>26 Weeks) , Deduct</i>			-9.77
01 22 23 00-1170	DAY	10" x 50' HDPE Pipe With Couplings	38.71
01 22 23 00-1171	WK	10" x 50' HDPE Pipe With Couplings	99.20
01 22 23 00-1172	MO	10" x 50' HDPE Pipe With Couplings	302.42
<i>For >6 Months (>26 Weeks) , Deduct</i>			-12.10
01 22 23 00-1173	DAY	12" x 20' HDPE Pipe With Couplings	29.03
01 22 23 00-1174	WK	12" x 20' HDPE Pipe With Couplings	79.84
01 22 23 00-1175	MO	12" x 20' HDPE Pipe With Couplings	241.94
<i>For >6 Months (>26 Weeks) , Deduct</i>			-9.68
01 22 23 00-1176	DAY	4" Elbow For HDPE Pipe, Quick Connect	29.03
01 22 23 00-1177	WK	4" Elbow For HDPE Pipe, Quick Connect	75.00
01 22 23 00-1178	MO	4" Elbow For HDPE Pipe, Quick Connect	222.58
<i>For >6 Months (>26 Weeks) , Deduct</i>			-8.90
01 22 23 00-1179	DAY	6" Elbow For HDPE Pipe, Quick Connect	33.87
01 22 23 00-1180	WK	6" Elbow For HDPE Pipe, Quick Connect	87.10
01 22 23 00-1181	MO	6" Elbow For HDPE Pipe, Quick Connect	266.13
<i>For >6 Months (>26 Weeks) , Deduct</i>			-10.65
01 22 23 00-1182	DAY	8" Elbow For HDPE Pipe, Quick Connect	38.71
01 22 23 00-1183	WK	8" Elbow For HDPE Pipe, Quick Connect	99.20
01 22 23 00-1184	MO	8" Elbow For HDPE Pipe, Quick Connect	302.42
<i>For >6 Months (>26 Weeks) , Deduct</i>			-12.10
01 22 23 00-1185	DAY	10" Elbow For HDPE Pipe, Quick Connect	48.39
01 22 23 00-1186	WK	10" Elbow For HDPE Pipe, Quick Connect	123.39
01 22 23 00-1187	MO	10" Elbow For HDPE Pipe, Quick Connect	375.01
<i>For >6 Months (>26 Weeks) , Deduct</i>			-15.00
01 22 23 00-1188	DAY	12" Elbow For HDPE Pipe, Quick Connect	48.39
01 22 23 00-1189	WK	12" Elbow For HDPE Pipe, Quick Connect	123.39
01 22 23 00-1190	MO	12" Elbow For HDPE Pipe, Quick Connect	375.01
<i>For >6 Months (>26 Weeks) , Deduct</i>			-15.00
01 22 23 00-1191	DAY	4" Tee For HDPE Pipe, Quick Connect	29.03
01 22 23 00-1192	WK	4" Tee For HDPE Pipe, Quick Connect	75.00
01 22 23 00-1193	MO	4" Tee For HDPE Pipe, Quick Connect	222.58
<i>For >6 Months (>26 Weeks) , Deduct</i>			-8.90
01 22 23 00-1194	DAY	6" Tee For HDPE Pipe, Quick Connect	38.71
01 22 23 00-1195	WK	6" Tee For HDPE Pipe, Quick Connect	99.20
01 22 23 00-1196	MO	6" Tee For HDPE Pipe, Quick Connect	302.42
<i>For >6 Months (>26 Weeks) , Deduct</i>			-12.10
01 22 23 00-1197	DAY	8" Tee For HDPE Pipe, Quick Connect	48.39
01 22 23 00-1198	WK	8" Tee For HDPE Pipe, Quick Connect	123.39
01 22 23 00-1199	MO	8" Tee For HDPE Pipe, Quick Connect	375.01
<i>For >6 Months (>26 Weeks) , Deduct</i>			-15.00
01 22 23 00-1200	DAY	10" Tee For HDPE Pipe, Quick Connect	58.07
01 22 23 00-1201	WK	10" Tee For HDPE Pipe, Quick Connect	147.58
01 22 23 00-1202	MO	10" Tee For HDPE Pipe, Quick Connect	447.59
<i>For >6 Months (>26 Weeks) , Deduct</i>			-17.90
01 22 23 00-1203	DAY	12" Tee For HDPE Pipe, Quick Connect	58.07
01 22 23 00-1204	WK	12" Tee For HDPE Pipe, Quick Connect	147.58
01 22 23 00-1205	MO	12" Tee For HDPE Pipe, Quick Connect	447.59
<i>For >6 Months (>26 Weeks) , Deduct</i>			-17.90
01 22 23 00-1206	DAY	4" Cap For HDPE Pipe, Quick Connect	4.84
01 22 23 00-1207	WK	4" Cap For HDPE Pipe, Quick Connect	14.52
01 22 23 00-1208	MO	4" Cap For HDPE Pipe, Quick Connect	43.55
<i>For >6 Months (>26 Weeks) , Deduct</i>			-1.74
01 22 23 00-1209	DAY	6" Cap For HDPE Pipe, Quick Connect	4.84
01 22 23 00-1210	WK	6" Cap For HDPE Pipe, Quick Connect	14.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1211 MO 6" Cap For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	43.55 -1.74	
01 22 23 00-1212 DAY 8" Cap For HDPE Pipe, Quick Connect.....	4.84	
01 22 23 00-1213 WK 8" Cap For HDPE Pipe, Quick Connect.....	14.52	
01 22 23 00-1214 MO 8" Cap For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	43.55 -1.74	
01 22 23 00-1215 DAY 10" Cap For HDPE Pipe, Quick Connect.....	4.84	
01 22 23 00-1216 WK 10" Cap For HDPE Pipe, Quick Connect.....	14.52	
01 22 23 00-1217 MO 10" Cap For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	43.55 -1.74	
01 22 23 00-1218 DAY 12" Cap For HDPE Pipe, Quick Connect.....	4.84	
01 22 23 00-1219 WK 12" Cap For HDPE Pipe, Quick Connect.....	14.52	
01 22 23 00-1220 MO 12" Cap For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	43.55 -1.74	
01 22 23 00-1221 DAY 4" Wye For HDPE Pipe, Quick Connect.....	14.52	
01 22 23 00-1222 WK 4" Wye For HDPE Pipe, Quick Connect.....	36.29	
01 22 23 00-1223 MO 4" Wye For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	111.29 -4.45	
01 22 23 00-1224 DAY 6" Wye For HDPE Pipe, Quick Connect.....	16.94	
01 22 23 00-1225 WK 6" Wye For HDPE Pipe, Quick Connect.....	43.55	
01 22 23 00-1226 MO 6" Wye For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	133.07 -5.32	
01 22 23 00-1227 DAY 8" Wye For HDPE Pipe, Quick Connect.....	29.03	
01 22 23 00-1228 WK 8" Wye For HDPE Pipe, Quick Connect.....	75.00	
01 22 23 00-1229 MO 8" Wye For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	222.58 -8.90	
01 22 23 00-1230 DAY 10" Wye For HDPE Pipe, Quick Connect.....	43.55	
01 22 23 00-1231 WK 10" Wye For HDPE Pipe, Quick Connect.....	111.29	
01 22 23 00-1232 MO 10" Wye For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	338.72 -13.55	
01 22 23 00-1233 DAY 12" Wye For HDPE Pipe, Quick Connect.....	43.55	
01 22 23 00-1234 WK 12" Wye For HDPE Pipe, Quick Connect.....	111.29	
01 22 23 00-1235 MO 12" Wye For HDPE Pipe, Quick Connect..... <i>For >6 Months (>26 Weeks) , Deduct</i>	338.72 -13.55	
01 22 23 00-1236 Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1237 Trucks (01 22 23 00-1236) Note: Includes driver, delivery, and removal.		
01 22 23 00-1238 Flat Bed Trucks (01 22 23 00-1237) Note: Includes hydraulic tilt bed.		
01 22 23 00-1239 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	793.01 -762.97	
01 22 23 00-1240 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	3,893.63 -3,814.87	
01 22 23 00-1241 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	16,730.05 -16,531.11	
01 22 23 00-1242 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	806.01 -762.97	
01 22 23 00-1243 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	3,926.93 -3,814.87	
01 22 23 00-1244 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	16,815.31 -16,531.11	
01 22 23 00-1245 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	815.33 -762.97	
01 22 23 00-1246 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	3,962.56 -3,814.87	
01 22 23 00-1247 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	16,950.91 -16,531.11	
01 22 23 00-1248 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1237)		
01 22 23 00-1249 DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	300.82	
01 22 23 00-1250 WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	695.64	
01 22 23 00-1251 MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle..... <i>For >6 Months (>26 Weeks) , Deduct</i>	1,504.08 -60.16	
01 22 23 00-1252 DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	310.22	
01 22 23 00-1253 WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	723.84	
01 22 23 00-1254 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle..... <i>For >6 Months (>26 Weeks) , Deduct</i>	1,598.08 -63.92	
01 22 23 00-1255 Light Duty Trucks (01 22 23 00-1237)		
01 22 23 00-1256 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	990.70 -755.88	
01 22 23 00-1257 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	4,549.91 -3,779.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1258	MO		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	17,991.83	
			<i>For Equipment Without Operator, Deduct</i>	-16,377.47	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-64.57	
01 22 23 00-1259	DAY		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	1,034.72	
			<i>For Equipment Without Operator, Deduct</i>	-755.88	
01 22 23 00-1260	WK		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	4,681.99	
			<i>For Equipment Without Operator, Deduct</i>	-3,779.42	
01 22 23 00-1261	MO		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	18,285.35	
			<i>For Equipment Without Operator, Deduct</i>	-16,377.47	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-76.32	
01 22 23 00-1262			Boom Trucks <small>(01 22 23 00-1237)</small>		
01 22 23 00-1263	DAY		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver.....	818.92	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1264	WK		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver.....	3,960.54	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1265	MO		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver.....	16,900.57	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-14.78	
01 22 23 00-1266			Rear Dump Trucks <small>(01 22 23 00-1237)</small>		
01 22 23 00-1267	DAY		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	1,166.13	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1268	WK		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	4,879.74	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1269	MO		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	19,791.47	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-130.41	
01 22 23 00-1270	DAY		4 CY Rear Dump Truck With Full-Time Truck Driver.....	1,299.79	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1271	WK		4 CY Rear Dump Truck With Full-Time Truck Driver.....	5,293.86	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1272	MO		4 CY Rear Dump Truck With Full-Time Truck Driver.....	20,365.53	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-153.38	
01 22 23 00-1273	DAY		6 CY Rear Dump Truck With Full-Time Truck Driver.....	1,376.48	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1274	WK		6 CY Rear Dump Truck With Full-Time Truck Driver.....	5,458.19	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1275	MO		6 CY Rear Dump Truck With Full-Time Truck Driver.....	20,475.09	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-157.76	
01 22 23 00-1276	DAY		13 CY Rear Dump Truck With Full-Time Truck Driver.....	2,285.78	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1277	WK		13 CY Rear Dump Truck With Full-Time Truck Driver.....	7,331.59	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1278	MO		13 CY Rear Dump Truck With Full-Time Truck Driver.....	25,733.73	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-368.10	
01 22 23 00-1279	DAY		18 CY Rear Dump Truck With Full-Time Truck Driver.....	2,438.07	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1280	WK		18 CY Rear Dump Truck With Full-Time Truck Driver.....	7,683.26	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1281	MO		18 CY Rear Dump Truck With Full-Time Truck Driver.....	26,653.99	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-404.92	
01 22 23 00-1282			Under-Bridge Inspection Trucks <small>(01 22 23 00-1237)</small>		
01 22 23 00-1283	DAY		40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	4,595.80	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1284	WK		40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	20,907.22	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1285	MO		40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	77,119.47	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-2,423.53	
01 22 23 00-1286	DAY		50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	5,113.75	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1287	WK		50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	21,943.12	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1288	MO		50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	81,028.39	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-2,579.89	
01 22 23 00-1289	DAY		60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	5,424.52	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1290	WK		60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	23,496.97	
			<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1291	MO		60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	84,937.33	
			<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
			<i>For >6 Months (>26 Weeks) , Deduct</i>	-2,736.25	
01 22 23 00-1292	DAY		75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	6,771.19	
			<i>For Equipment Without Operator, Deduct</i>	-762.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1293 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	29,712.37 -3,814.87	
01 22 23 00-1294 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	104,481.96 -16,531.11 -3,518.03	
01 22 23 00-1295 Vacuum Trucks <small>(01 22 23 00-1237)</small>		
01 22 23 00-1296 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,150.24 -762.97	
01 22 23 00-1297 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,969.08 -3,814.87	
01 22 23 00-1298 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	19,940.59 -16,531.11 -136.38	
01 22 23 00-1299 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,274.83 -762.97	
01 22 23 00-1300 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	8,367.98 -3,814.87	
01 22 23 00-1301 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	29,966.94 -16,531.11 -537.43	
01 22 23 00-1302 Water Trucks <small>(01 22 23 00-1237)</small> Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1126 for additional discharge hose, 01 22 23 00-1341 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1303 DAY 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	1,446.39 -762.97 14.51	
01 22 23 00-1304 WK 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	5,614.53 -3,814.87 14.51	
01 22 23 00-1305 MO 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add For >6 Months (>26 Weeks) , Deduct</i>	20,783.47 -16,531.11 14.51 -170.09	
01 22 23 00-1306 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	1,567.88 -762.97 14.51	
01 22 23 00-1307 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	6,457.41 -3,814.87 14.51	
01 22 23 00-1308 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add For >6 Months (>26 Weeks) , Deduct</i>	23,114.67 -16,531.11 14.51 -263.34	
01 22 23 00-1309 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	1,780.50 -762.97 14.51	
01 22 23 00-1310 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add</i>	6,616.87 -3,814.87 14.51	
01 22 23 00-1311 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add For >6 Months (>26 Weeks) , Deduct</i>	23,365.26 -16,531.11 14.51 -273.37	
01 22 23 00-1312 Asphalt Distribution Trucks <small>(01 22 23 00-1237)</small>		
01 22 23 00-1313 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	902.15 -762.97	
01 22 23 00-1314 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,230.61 -3,814.87	
01 22 23 00-1315 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	17,760.15 -16,531.11 -49.16	
01 22 23 00-1316 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1237)</small>		
01 22 23 00-1317 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,501.29 -755.88	
01 22 23 00-1318 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,979.34 -3,779.42	
01 22 23 00-1319 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct For >6 Months (>26 Weeks) , Deduct</i>	21,719.90 -16,377.47 -213.70	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1320 Vacuum Sweeper Trucks For Bridge Decks (01 22 23 00-1237)		
01 22 23 00-1321 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver	2,274.83	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1322 WK Vacuum Sweeper Truck, With Full-Time Truck Driver	8,367.98	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1323 MO Vacuum Sweeper Truck, With Full-Time Truck Driver	29,966.94	
<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-537.43	
01 22 23 00-1324 Combination Jet/Vacuum Trucks (01 22 23 00-1237)		
01 22 23 00-1325 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,232.56	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1326 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	15,375.51	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1327 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,663.49	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1328 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	17,882.39	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1329 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	4,077.85	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1330 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	20,389.27	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1331 Straight/Box Trucks (01 22 23 00-1237)		
01 22 23 00-1332 DAY 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	775.80	
<i>Note: Includes 2,500 LB lift gate.</i>		
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1333 WK 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	3,879.02	
<i>Note: Includes 2,500 LB lift gate.</i>		
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1334 MO 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	16,720.47	
<i>Note: Includes 2,500 LB lift gate.</i>		
<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-7.57	
01 22 23 00-1335 Truck Mounted Accessories (01 22 23 00-1236)		
<i>Note: Includes delivery to job site and pick-up when complete.</i>		
01 22 23 00-1336 Truck Mounted Arrow Boards (01 22 23 00-1335)		
01 22 23 00-1337 DAY Truck Mounted Arrow Board	55.92	
01 22 23 00-1338 WK Truck Mounted Arrow Board	222.39	
01 22 23 00-1339 MO Truck Mounted Arrow Board	792.98	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-31.72	
01 22 23 00-1340 Trailers (01 22 23 00-1236)		
<i>Note: Includes delivery to job site and pick-up when complete.</i>		
01 22 23 00-1341 Water Trailers With Pump (01 22 23 00-1340)		
01 22 23 00-1342 DAY 500 To 600 Gallon Water Trailer With Pump	174.65	
01 22 23 00-1343 WK 500 To 600 Gallon Water Trailer With Pump	448.02	
01 22 23 00-1344 MO 500 To 600 Gallon Water Trailer With Pump	1,199.77	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-47.99	
01 22 23 00-1345 Trailer Mounted Equipment (01 22 23 00-1236)		
01 22 23 00-1346 Trailer Mounted Under-Bridge Aerial Access Platform (01 22 23 00-1345)		
<i>Note: Includes full-time operator. Excludes truck.</i>		
01 22 23 00-1347 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	2,910.11	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1348 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	10,256.28	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1349 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	34,423.93	
<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-715.71	
01 22 23 00-1350 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	3,124.82	
<i>For Equipment Without Operator, Deduct</i>	-762.97	
01 22 23 00-1351 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	10,900.43	
<i>For Equipment Without Operator, Deduct</i>	-3,814.87	
01 22 23 00-1352 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	36,213.21	
<i>For Equipment Without Operator, Deduct</i>	-16,531.11	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-787.28	
01 22 23 00-1353 Trailer Mounted Bridge Stripping Buggy (01 22 23 00-1345)		
01 22 23 00-1354 DAY Trailer Mounted Bridge Overhang Stripping Buggy	243.64	
01 22 23 00-1355 WK Trailer Mounted Bridge Overhang Stripping Buggy	730.96	
01 22 23 00-1356 MO Trailer Mounted Bridge Overhang Stripping Buggy	2,030.36	
<i>For >6 Months (>26 Weeks) , Deduct</i>	-81.21	



General Requirements	01	10
Price and Payment Procedures	01 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1357	Portable Trailer Mounted, CCTV Camera Systems <small>(01 22 23 00-1345)</small> Note: Includes trailer. Excludes truck.	
01 22 23 00-1358	MO Portable Trailer Mounted, Single Camera, CCTV Camera System <i>For >6 Months (>26 Weeks) , Deduct</i>	2,820.15 -112.81
01 22 23 00-1359	MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System <i>For >6 Months (>26 Weeks) , Deduct</i>	4,888.26 -195.53

01 22 23 00-1360	CALTRANS Equipment Rental Rates <small>(01 22 23)</small> Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)	
01 22 23 00-1361	EA CALTRANS Equipment Rental Rates, Reimbursable Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2023.pdf (Or use most current dated PDF)	1.00

01 40 Quality Requirements (01)

01 41 Regulatory Requirements (01 40)

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

01 42 References (01 40)

01 42 13 Abbreviations and Acronyms (01 42)
Note: For specification publishing. Review specifications for requirements.
01 42 13 00-0001 NTE Abbreviations And Acronyms 0.00
Note: For specification publishing. Review specifications for requirements.

01 42 16 Definitions (01 42)
Note: For specification publishing. Review specifications for requirements.
01 42 16 00-0001 NTE Definitions 0.00
Note: For specification publishing. Review specifications for requirements.

01 42 19 Reference Standards (01 42)
Note: For specification publishing. Review specifications for requirements.
01 42 19 00-0001 NTE Reference Standards 0.00
Note: For specification publishing. Review specifications for requirements.

01 42 21 Construction Suppliers or Venor List (01 42)
Note: For specification publishing. Review specifications for requirements.
01 42 21 00-0001 NTE Construction Suppliers or Venor List 0.00
Note: For specification publishing. Review specifications for requirements.

01 45 Quality Control (01 40)

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

01 45 23 Testing and Inspecting Services (01 45)
Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001	Soils/Aggregate Testing <small>(01 45 23)</small>	
01 45 23 00-0002	Field Soils Tests <small>(01 45 23 00-0001)</small>	
01 45 23 00-0003	EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	343.56
01 45 23 00-0004	EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	487.63
01 45 23 00-0005	EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	554.12
01 45 23 00-0006	EA Resistance (R) Value Soils Test, CA 301, Field Soils Test	443.30
01 45 23 00-0007	EA Soils Classification Test, ASTM D-2487, Field Soils Test	664.95
01 45 23 00-0008	SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	1,329.47
01 45 23 00-0009	EA Moisture Content, Field Soils Test	49.86
01 45 23 00-0010	EA UBC Or Swell Test, Field Soils Test	132.99
01 45 23 00-0011	EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test	332.37
01 45 23 00-0012	EA Proctor Compaction 6" Standard Mold, Field Soils Test	415.46
01 45 23 00-0013	EA Density And Classification Test, Field Soils Test	101.23
01 45 23 00-0014	EA Percolation Test, Field Soils Test	253.08
01 45 23 00-0015	EA Infiltration Test, Field Soils Test	506.16

01 45 23 00-0016	Aggregate Testing <small>(01 45 23 00-0001)</small>	
01 45 23 00-0017	EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	110.82

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0018	EA		Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	199.48	
01 45 23 00-0019	EA		Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	277.06	
01 45 23 00-0020	EA		Sieve Analysis, Pit Run, ASTM C136	164.50	
			Note: Includes wash.		
01 45 23 00-0021	EA		Specific Special Gravity, Course, ASTM C127	176.08	
			Note: Includes absorption test.		
01 45 23 00-0022	EA		Special Gravity, Fine, ASTM C127	157.87	
			Note: Includes absorption test.		
01 45 23 00-0023	EA		Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	234.78	
01 45 23 00-0024	EA		Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	221.65	
01 45 23 00-0025	EA		Aggregate Cleanness Value, ASTM C-128, CA 227	221.65	
01 45 23 00-0026	EA		Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	166.24	
01 45 23 00-0027	EA		Fine Aggregate Durability Index, CA 229	177.32	
01 45 23 00-0028	EA		Sodium And Magnesium Soundness, ASTM C88	465.31	
01 45 23 00-0029	EA		Los Angeles Rattler, ASTM C-131, CA 211	354.64	
01 45 23 00-0030	EA		Los Angeles Rattler, ASTM C-535	354.64	
01 45 23 00-0031	EA		Unit Weight Of Aggregates, ASTM C29	99.74	
01 45 23 00-0032	EA		Organic Impurities In Sand, ASTM C40	99.71	
01 45 23 00-0033	EA		Crushed Particle, ASTM California Test Method	99.71	
01 45 23 00-0034	EA		Clay Lump And Friable Particles, ASTM C142	199.42	
01 45 23 00-0035			Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036			In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037	EA		Double Ring Infiltrometer Test, ASTM D3385.....	1,760.85	
01 45 23 00-0038	EA		Unconfined Compressive Strength (Pocket Penetrometer) Test	83.09	
01 45 23 00-0039			Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040	EA		Falling Head Rigid Wall Consolidometer Technique CAE.....	821.73	
01 45 23 00-0041	EA		Falling Head Permeability Test EPA-9100.....	821.73	
01 45 23 00-0042	EA		Constant Head Permeability Test For Granular Soils, ASTM D2432.....	469.56	
01 45 23 00-0043			Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044			Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045	EA		Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	25.37	
01 45 23 00-0046	EA		6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	70.43	
01 45 23 00-0047	EA		Concrete Cores Compression Test, ASTM C-42	144.07	
01 45 23 00-0048	EA		6 x 6 x 18 Concrete Flexural Test, ASTM C-78	210.57	
01 45 23 00-0049	EA		Unit Weight Of Concrete Cylinder, ASTM C-567	77.58	
01 45 23 00-0050	EA		Concrete Mix Design Review	421.14	
01 45 23 00-0051	EA		Trial Concrete Batch Prepared In Laboratory	997.42	
01 45 23 00-0052	EA		Concrete Shrinkage, ASTM C-157 Modified	775.78	
01 45 23 00-0053	EA		6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	119.69	
01 45 23 00-0054	EA		Concrete Slump Test, ASTM C143.....	55.41	
01 45 23 00-0055	EA		Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	55.41	
01 45 23 00-0056			Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057	EA		Cement Grab Sample (CCR Title 24)	55.41	
			Note: Includes sealing and storing 1 year.		
01 45 23 00-0058	EA		2" x 2" x 2" Cube Compression Test, All Type Materials.....	88.66	
01 45 23 00-0059			Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060	EA		Hveem Asphaltic Concrete Stability Test, CA 366	110.82	
01 45 23 00-0061	EA		Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	288.14	
01 45 23 00-0062	EA		Stability Tests, Premixed, ASTM D1559.....	110.82	
01 45 23 00-0063	EA		Stability Tests, Lab. Mixed, ASTM D1559	288.14	
01 45 23 00-0064	EA		Swell Test, CA 305	132.99	
			Note: Includes compaction.		
01 45 23 00-0065	EA		% Asphalt Extraction Test, ASTM D-2172 B.....	332.48	
01 45 23 00-0066	EA		Gradation On Extracted Sample, ASTM D-5444	221.65	
01 45 23 00-0067	EA		Maximum Theoretical Unit Weight, ASTM C2041.....	211.30	
01 45 23 00-0068	EA		Unit Weight Sample Requiring Compaction, California Test Method 308.....	44.33	
01 45 23 00-0069	EA		Asphalt Unit Weight On Core Test, CA 308C	44.33	
01 45 23 00-0070	HR		Nuclear Field Density Testing, 4 Hour Minimum	228.30	
01 45 23 00-0071	EA		Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	113.89	
01 45 23 00-0072	EA		Penetration, ASTM D5	160.10	
01 45 23 00-0073			Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0074			Masonry Testing (01 45 23 00-0073)		
01 45 23 00-0075	EA		2" x 4" Cylinder Mortar Compression Test.....	73.14	
01 45 23 00-0076	EA		4" x 4" x 8" Grout Prisms Compression Test.....	73.14	
01 45 23 00-0077	EA		Masonry Cores Compression Test	144.07	
01 45 23 00-0078	EA		Composite Grouted Prism Compression Test.....	277.06	



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0079 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0073)				
01 45 23 00-0080	EA	Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	177.32	
01 45 23 00-0081	EA	Absorption Test, Moisture Content And Unit Weight.....	121.91	
01 45 23 00-0082	EA	First Unit, Moisture Condition By Relative Humidity, ASTM C427	465.31	
01 45 23 00-0083	EA	Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	232.66	
01 45 23 00-0084 Metals Testing (01 45 23)				
01 45 23 00-0085 Tank Tightness Testing (01 45 23 00-0084)				
01 45 23 00-0086	GAL	Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	8.65	
01 45 23 00-0087	GAL	>20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	7.42	
01 45 23 00-0088	EA	Up To 12,000 Gallons, Tank Volumetric Tightness Testing	2,227.19	
01 45 23 00-0089	EA	>12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,721.25	
01 45 23 00-0090	EA	>29,999 Gallons, Tank Volumetric Tightness Testing	3,465.62	
01 45 23 00-0091 Tank Line Tightness Testing (01 45 23 00-0084)				
01 45 23 00-0092	EA	Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	469.95	
01 45 23 00-0093	EA	>12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	521.83	
01 45 23 00-0094	EA	>29,999 Gallons, Tank Line Volumetric Tightness Testing.....	573.53	
01 45 23 00-0095 Other Testing (01 45 23)				
01 45 23 00-0096 Special Testing (01 45 23 00-0095)				
01 45 23 00-0097	EA	Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	166.18	
01 45 23 00-0098	EA	Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	997.10	
01 45 23 00-0099	EA	Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	51.80	
01 45 23 00-0100	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	214.85	
01 45 23 00-0101	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	214.85	
01 45 23 00-0102	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	214.85	
01 45 23 00-0103	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	1,181.68	
01 45 23 00-0104	EA	Testing And Certification Of Backflow Valves	569.69	
01 45 23 00-0105 Non-destructive Field Testing Services (01 45 23 00-0095)				
01 45 23 00-0106 Infrared Thermography (01 45 23 00-0105)				
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.				
01 45 23 00-0107 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0106)				
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.				
01 45 23 00-0108	EA	Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	2,041.08	
01 45 23 00-0109	CSF	Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	6.45	
			<i>For Digital Or Analog Recording Of All Items, Add</i>	0.97
01 45 23 00-0110	CSF	>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.30	
			<i>For Digital Or Analog Recording Of All Items, Add</i>	0.65
01 45 23 00-0111 Other Non-destructive Field Testing Services (01 45 23 00-0105)				
01 45 23 00-0112	HR	ASNT Certified Level I NDT Consultant.....	90.22	
01 45 23 00-0113	HR	ASNT Certified Level II NDT Consultant.....	112.58	
01 45 23 00-0114	HR	ASNT Certified Level III NDT Consultant.....	129.25	
01 45 23 00-0115	HR	Certified Industrial Radiography Radiation Safety Personnel	111.95	
01 45 29 Testing Laboratory Services (01 45)				
Note: For application to existing materials/site conditions or additional testing over specifications stated tests.				
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)				
See CSI section 02 32 13 00-0000 for soil borings.				
01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	152.61	
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test.....	48.69	
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	117.39	
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test.....	821.73	
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test.....	128.83	
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test.....	35.22	
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	21.88	
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test.....	282.46	
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	98.48	
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	19.48	
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test.....	973.77	
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	196.96	
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test.....	243.44	
01 45 29 00-0015	EA	Los Angeles Abrasion, Soil Borings Laboratory Test.....	450.63	
01 45 29 00-0016	EA	Soil Bearing Ratio, ASTM D1883.....	498.71	

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



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
01 45 29 00-0017	EA	Compaction Test Subgrade, Soil Borings Laboratory Test.....	146.07	
01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test.....	162.29	
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	348.32	
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	74.66	

01 50 Temporary Facilities and Controls ⁽⁰¹⁾

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

01 51 Temporary Utilities ^(01 50)

01 51 13 Temporary Electricity ^(01 51)

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

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	920.83
01 51 13 00-0003	EA	Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	1,163.43
01 51 13 00-0004	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	1,560.75
01 51 13 00-0005	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	2,420.78
01 51 13 00-0006	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	4,442.70
01 51 13 00-0007	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	7,311.16
01 51 13 00-0008	EA	Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	10,048.14
01 51 13 00-0009	EA	Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	16,186.45
01 51 13 00-0010	EA	Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	22,519.14

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

Fuses ^(01 51 13)

Note: Includes mounting on wall and removal after use.

01 51 13 00-0012	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,621.93
01 51 13 00-0013	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,262.28
01 51 13 00-0014	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,540.27
01 51 13 00-0015	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,029.01

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

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

01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	11.83
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards.....	12.96

01 51 26 Temporary Lighting ^(01 51)

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

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	295.78
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	107.42
01 51 26 00-0004	EA	Temporary High Bay Light.....	404.51

01 52 Construction Facilities ^(01 50)

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

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

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

Note: Excludes furniture, utility connections and service. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	188.83
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	1,221.51
		<i>For Each Set-Up (Block And Level), Add</i>	440.31
		<i>For Each Anchoring Into Dirt, Add</i>	134.27
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	201.40
		<i>For Office Trailer Without Toilet, Deduct</i>	-37.77
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	214.01
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	1,221.51
		<i>For Each Set-Up (Block And Level), Add</i>	440.31
		<i>For Each Anchoring Into Dirt, Add</i>	134.27
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	201.40
		<i>For Office Trailer Without Toilet, Deduct</i>	-42.80
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	289.54
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	1,832.25
		<i>For Each Set-Up (Block And Level), Add</i>	718.39
		<i>For Each Anchoring Into Dirt, Add</i>	134.27
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	201.40
		<i>For Office Trailer Without Toilet, Deduct</i>	-57.91
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	308.43
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	1,832.25
		<i>For Each Set-Up (Block And Level), Add</i>	718.39
		<i>For Each Anchoring Into Dirt, Add</i>	134.27
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	201.40
		<i>For Office Trailer Without Toilet, Deduct</i>	-61.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	339.90	
For Each Delivery And Removal, Two Round Trips, Add	1,832.25	
For Each Set-Up (Block And Level), Add	718.39	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	358.78	
For Each Delivery And Removal, Two Round Trips, Add	1,832.25	
For Each Set-Up (Block And Level), Add	718.39	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	277.58	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
For Each Delivery And Removal, Two Round Trips, Add	729.21	
For Each Set-Up (Block And Level), Add	579.35	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	371.12	
For Each Delivery And Removal, Two Round Trips, Add	1,832.25	
For Each Set-Up (Block And Level), Add	718.39	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	421.72	
For Each Delivery And Removal, Two Round Trips, Add	1,832.25	
For Each Set-Up (Block And Level), Add	718.39	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	459.49	
For Each Delivery And Removal, Two Round Trips, Add	1,832.25	
For Each Set-Up (Block And Level), Add	718.39	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	1,007.10	
For Each Delivery And Removal, Two Round Trips, Add	3,664.51	
For Each Set-Up (Block And Level), Add	1,158.70	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,208.52	
For Each Delivery And Removal, Two Round Trips, Add	3,664.51	
For Each Set-Up (Block And Level), Add	1,158.70	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	574.36	
For Each Delivery And Removal, Two Round Trips, Add	3,664.51	
For Each Set-Up (Block And Level), Add	1,158.70	
For Each Anchoring Into Dirt, Add	134.27	
For Each Anchoring Into Asphalt Or Concrete, Add	201.40	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	57.18	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	35.74	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	42.88	
01 52 13 00-0019 MO Table For Field Office Trailer.....	28.59	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	13.54	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	157.24	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	100.06	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	180.17	
01 52 13 00-0024 LF Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	16.12	
01 52 13 00-0025 LF Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	38.17	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	47.00	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	71.47	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	114.36	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	175.49	
For Each Delivery And Removal, Two Round Trips, Add	130.18	
For >12 Months, Deduct	-52.65	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	183.47	
For Each Delivery And Removal, Two Round Trips, Add	143.20	
For >12 Months, Deduct	-55.04	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	216.97	
For Each Delivery And Removal, Two Round Trips, Add	288.40	
For >12 Months, Deduct	-65.09	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	69.09	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	39.95	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52	19 00-0003	MO	Portable Chemical Toilet.....	207.26	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery And Set-up, Add</i>	39.95	
01 52	19 00-0004	WK	Americans With Disabilities Act Compliant Portable Chemical Toilet	82.40	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery And Set-up, Add</i>	39.95	
01 52	19 00-0005	MO	Americans With Disabilities Act Compliant Portable Chemical Toilet	241.80	
			<i>For Each Additional Servicing Per Unit Per Week, Add</i>	25.00	
			<i>For Each Delivery And Set-up, Add</i>	39.95	
01 52	19 00-0006	WK	Two Station Portable Handwash.....	54.79	
			<i>For Each Delivery And Set-up, Add</i>	39.95	
01 52	19 00-0007	MO	Two Station Portable Handwash.....	166.19	
			<i>For Each Delivery And Set-up, Add</i>	39.95	
01 52	19 00-0008	MO	6 Station, Portable Toilets, Multi Trailer	4,685.40	
			Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing.		
			<i>For Each Delivery, Set-up And Removal, Two Round Trips, Add</i>	1,221.51	
01 52	19 00-0009	WK	Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,044.02	
			<i>For One Additional Service Per Week, Add</i>	681.34	
			Note: For one less service per week, UOM to be negative one (-1)		

01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)

Note: Includes removal after use.

01 53	16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	8.16	
01 53	16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	35.79	
01 53	16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	15.26	
01 53	16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	27.57	

01 53 23 Temporary Ramps (01 53)

01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)

Note: Includes removal after use.

01 53	23 00-0002	SF	Temporary Plywood For Wheel Barrow Access.....	1.71	0.55
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01 54 Construction Aids (01 50)

01 54 09 Personnel Protection Equipment (01 54)

01 54 09 00-0001 Personnel Protection Equipment (01 54 09)

Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.

01 54	09 00-0002	NTE	Personnel Protection Equipment	0.00	
			Note: For specification publishing. Review specifications for requirements.		

01 54 23 Temporary Scaffolding and Platforms (01 54)

01 54 23 00-0001 Scaffolding (01 54 23)

Note: Additional scaffolding rental for work above the normal working height.

01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54	23 00-0003	CCF	Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	31.45	
			<i>For Up To 25, Add</i>	12.58	
			<i>For >25 To 50, Add</i>	7.86	
			<i>For >50 To 150, Add</i>	3.15	
01 54	23 00-0004	CCF	Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	35.37	
			<i>For Up To 25, Add</i>	14.15	
			<i>For >25 To 50, Add</i>	8.84	
			<i>For >50 To 150, Add</i>	3.54	
01 54	23 00-0005	CCF	Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	47.18	
			<i>For Up To 25, Add</i>	18.87	
			<i>For >25 To 50, Add</i>	11.80	
			<i>For >50 To 150, Add</i>	4.72	

01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54	23 00-0007	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	49.48	
01 54	23 00-0008	CCF	>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	64.88	
01 54	23 00-0009	CCF	>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	86.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	95.23	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	109.66	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	69.26	
01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only <small>(01 54 23 00-0001)</small>		
<small>Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.</small>		
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	68.38	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	125.37	
01 54 23 00-0016 LF Aluminum Joists (LF / Month).....	11.12	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month).....	15.94	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	20.09	
01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only <small>(01 54 23 00-0001)</small>		
<small>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.</small>		
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	92.35	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	115.44	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	138.53	
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	150.06	
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	167.38	
01 54 23 00-0025 Scaffolding Accessories <small>(01 54 23 00-0001)</small>		
<small>See CSI section 01 54 23 00-0019 for erection.</small>		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding	41.92	
<small>Note: Includes removal after use.</small>		
01 54 23 00-0027 Rolling Scaffolding <small>(01 54 23)</small>		
<small>Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.</small>		
01 54 23 00-0028 DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	11.65	
01 54 23 00-0029 WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	46.69	
01 54 23 00-0030 MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	186.74	
01 54 23 00-0031 DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	19.50	
01 54 23 00-0032 WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	78.12	
01 54 23 00-0033 MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	312.52	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	112.43	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	140.54	
01 54 23 00-0036 Shoring Posts <small>(01 54 23)</small>		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	2.09	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	8.35	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	25.06	
01 54 23 00-0040 EA Initial Erection And Final Dismantling For Each Shoring Post	9.00	
<small>For >20 To 50, Deduct</small>		-1.35
<small>For >50 To 100, Deduct</small>		-3.15
<small>For >100, Deduct</small>		-4.95
01 54 23 00-0041 Temporary Lumber, Single Use <small>(01 54 23)</small>		
<small>Note: Includes removal after use.</small>		
01 54 23 00-0042 SF 5/16" CD Grade Plywood, Temporary Lumber	2.75	
01 54 23 00-0043 SF 1/2" CD Grade Plywood, Temporary Lumber	3.08	
01 54 23 00-0044 SF 5/8" CD Grade Plywood, Temporary Lumber	3.44	
01 54 23 00-0045 SF 3/4" CD Grade Plywood, Temporary Lumber	3.80	
01 54 23 00-0046 SF 1" CD Grade Plywood, Temporary Lumber	5.60	
01 54 23 00-0047 LF 2" x 4" Temporary Lumber	3.33	
01 54 23 00-0048 LF 2" x 6" Temporary Lumber	4.19	
01 54 23 00-0049 LF 2" x 8" Temporary Lumber	5.05	
01 54 23 00-0050 LF 2" x 10" Temporary Lumber	5.91	
01 54 23 00-0051 LF 2" x 12" Temporary Lumber	6.78	
01 54 23 00-0052 LF 3" x 8" Temporary Lumber	6.78	
01 54 23 00-0053 LF 3" x 10" Temporary Lumber	8.06	
01 54 23 00-0054 LF 3" x 12" Temporary Lumber	9.35	
01 54 23 00-0055 LF 4" x 4" Temporary Lumber	4.43	
01 54 23 00-0056 LF 4" x 6" Temporary Lumber	6.29	
01 54 23 00-0057 LF 6" x 6" Temporary Lumber	8.15	
01 54 23 00-0058 LF 6" x 8" Temporary Lumber	10.58	
01 54 23 00-0059 LF 12" x 12" Temporary Lumber	25.39	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 54 23 00-0060	Temporary Precast Concrete Blocks <small>(01 54 23)</small>		
	<small>Note: Includes removal after use.</small>		
01 54 23 00-0061	EA 2' x 2' x 2' Temporary Precast Concrete (Ecology) Block	121.80	
	<small>Note: Includes removal after use.</small>		
01 54 23 00-0062	EA 2' x 2' x 4' Temporary Precast Concrete (Ecology) Block	152.25	
	<small>Note: Includes removal after use.</small>		
01 54 23 00-0063	EA 2' x 2' x 8' Temporary Precast Concrete (Ecology) Block	199.49	
	<small>Note: Includes removal after use.</small>		

01 54 26 Temporary Swing Staging (01 54)
Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.

01 54 26 00-0001	Swing Stage <small>(01 54 26)</small>		
	<small>Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.</small>		
01 54 26 00-0002	MO 7' Swing Stage, Electric Operated	3,005.64	
01 54 26 00-0003	MO 10' Swing Stage, Electric Operated	3,155.92	
01 54 26 00-0004	MO 14' Swing Stage, Electric Operated	3,306.20	
01 54 26 00-0005	MO 20' Swing Stage, Electric Operated	3,456.49	
01 54 26 00-0006	MO 24' Swing Stage, Electric Operated	3,606.77	
01 54 26 00-0007	MO 30' Swing Stage, Electric Operated	3,757.05	
01 54 26 00-0008	MO 42' Swing Stage, Electric Operated	3,907.33	
01 54 26 00-0009	MO 12' Swing Stage, Manually Operated	866.71	
01 54 26 00-0010	MO 24' Swing Stage, Manually Operated	1,083.38	
01 54 26 00-0011	EA Swing Stage Platform From Hooks, Erection And Dismantling	4,792.73	
	<small>Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.</small>		
01 54 26 00-0012	EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	6,660.32	
	<small>Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.</small>		
01 54 26 00-0013	EA Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,520.12	
01 54 26 00-0014	EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,510.17	

01 55 Vehicular Access and Parking (01 50)

01 55 23 Temporary Roads (01 55)

01 55 23 00-0001	Temporary Stabilized Construction Entrance <small>(01 55 23)</small>		
	<small>Note: As per Caltrans detail.</small>		
01 55 23 00-0002	SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.21	
	<small>Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.</small>		
01 55 23 00-0003	SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	4.18	
	<small>Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.</small>		

01 55 23 00-0004 Rumble Trench Plate (01 55 23)

01 55 23 00-0005	MO 8' x 10' Steel Rumble Trench Plate Rental	401.44	
01 55 23 00-0006	EA Placement And Removal Of Rumble Plate	98.75	
	<small>Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.</small>		
01 55 23 00-0007	EA Relocate And Adjust Location Of Rumble Plate	24.69	
	<small>Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.</small>		

01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)

	<small>Note: Excludes asphalt and gravel.</small>		
01 55 23 00-0009	EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	4,927.03	220.56
01 55 23 00-0010	EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	6,707.91	330.84
01 55 23 00-0011	EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	9,268.95	441.11
01 55 23 00-0012	EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	19,241.51	551.39
01 55 23 00-0013	EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin)	28,238.87	661.67

01 55 26 Traffic Control (01 55)

01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26)

	<small>Note: Includes installation and removal after use.</small>		
01 55 26 00-0002	LF 6" Removable Traffic Black Line Mask	5.25	
01 55 26 00-0003	LF 8" Removable Traffic Black Line Mask	6.34	

01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)

	<small>Note: Includes installation and removal after use.</small>		
01 55 26 00-0005	LF 4" Reflective Removable Traffic Line Tape	5.31	
01 55 26 00-0006	LF 6" Reflective Removable Traffic Line Tape	7.24	
01 55 26 00-0007	LF 8" Reflective Removable Traffic Line Tape	9.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 55 26 00-0008	Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.	
01 55 26 00-0009	LF 4" Temporary Painted Traffic Lines <i>For Not Removed, Deduct</i>	2.44 -1.67
01 55 26 00-0010	LF 6" Temporary Painted Traffic Lines <i>For Not Removed, Deduct</i>	3.21 -2.27
01 55 26 00-0011	LF 8" Temporary Painted Traffic Lines <i>For Not Removed, Deduct</i>	4.02 -2.87
01 55 26 00-0012	EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.37
01 55 26 00-0013	EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.40

01 55 26 00-0014	Temporary Pedestrian Traffic Control (01 55 26)	
01 55 26 00-0015	CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	10.13
01 55 26 00-0016	CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	13.11
01 55 26 00-0017	CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	8.13
01 55 26 00-0018	CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	9.90
01 55 26 00-0019	CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	10.68
01 55 26 00-0020	CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	14.44
01 55 26 00-0021	CLF 1" Exterior Vinyl Tape (Warning Tape)	11.85
01 55 26 00-0022	CLF 2" Exterior Vinyl Tape (Warning Tape)	16.38
01 55 26 00-0023	CLF 3" Exterior Vinyl Tape (Warning Tape)	20.30
01 55 26 00-0024	CLF 4" Exterior Vinyl Tape (Warning Tape)	23.73

01 55 26 00-0025	Linear Delineation System, Temporary Or Permanent (01 55 26) Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.	
01 55 26 00-0026	LF 4" Linear Delineation System.....	11.37
01 55 26 00-0027	LF 6" Linear Delineation System.....	15.38

01 55 26 00-0028	Temporary Traffic Protection (01 55 26)	
01 55 26 00-0029	Temporary Portable Traffic Control Device Usage (01 55 26 00-0028) Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0144 for delivery, placing and removal.	
01 55 26 00-0030	DAY 28" Cone With Reflective Collar.....	0.86
01 55 26 00-0031	WK 28" Cone With Reflective Collar.....	2.59
01 55 26 00-0032	MO 28" Cone With Reflective Collar.....	7.76
01 55 26 00-0033	DAY 36" Traffic Cone With Reflective Collar.....	1.08
01 55 26 00-0034	WK 36" Traffic Cone With Reflective Collar.....	3.23
01 55 26 00-0035	MO 36" Traffic Cone With Reflective Collar.....	9.70
01 55 26 00-0036	DAY Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	2.03
01 55 26 00-0037	WK Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	6.09
01 55 26 00-0038	MO Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	18.27
01 55 26 00-0039	DAY Vertical Panel.....	2.60
01 55 26 00-0040	WK Vertical Panel.....	7.81
01 55 26 00-0041	MO Vertical Panel.....	23.43
01 55 26 00-0042	DAY Channelizer Drum.....	2.83
01 55 26 00-0043	WK Channelizer Drum.....	8.48
01 55 26 00-0044	MO Channelizer Drum.....	25.44
01 55 26 00-0045	DAY Stackable Channelizer Panel.....	1.34
01 55 26 00-0046	WK Stackable Channelizer Panel.....	4.01
01 55 26 00-0047	MO Stackable Channelizer Panel.....	12.03
01 55 26 00-0048	DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.85
01 55 26 00-0049	WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	5.55
01 55 26 00-0050	MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	16.66
01 55 26 00-0051	DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	4.10
01 55 26 00-0052	WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	12.31
01 55 26 00-0053	MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	36.92
01 55 26 00-0054	DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	4.68
01 55 26 00-0055	WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	14.03
01 55 26 00-0056	MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	42.08
01 55 26 00-0057	DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	8.55
01 55 26 00-0058	WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	25.66
01 55 26 00-0059	MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	76.97
01 55 26 00-0060	DAY Up To 10' Wide A Frame Barricade.....	4.69
01 55 26 00-0061	WK Up To 10' Wide A Frame Barricade.....	14.07
01 55 26 00-0062	MO Up To 10' Wide A Frame Barricade.....	42.21
01 55 26 00-0063	DAY Type A Or C Flasher.....	0.96
01 55 26 00-0064	WK Type A Or C Flasher.....	2.87
01 55 26 00-0065	MO Type A Or C Flasher.....	8.60
01 55 26 00-0066	DAY Type B Flasher (High Intensity).....	5.19
01 55 26 00-0067	WK Type B Flasher (High Intensity).....	15.56
01 55 26 00-0068	MO Type B Flasher (High Intensity).....	46.67

01 55 26 00-0069	Temporary Traffic Barriers Usage (01 55 26 00-0028) Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0144 for delivery, placing and removal.	
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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0070	DAY	6' Long Portable Parking Curbs	2.23	
01 55 26 00-0071	WK	6' Long Portable Parking Curbs	6.70	
01 55 26 00-0072	MO	6' Long Portable Parking Curbs	20.10	
01 55 26 00-0073	DAY	6' Long Portable Speed Bumps	6.61	
01 55 26 00-0074	WK	6' Long Portable Speed Bumps	19.83	
01 55 26 00-0075	MO	6' Long Portable Speed Bumps	59.49	
01 55 26 00-0076	DAY	Up To 12.5' Concrete Traffic Barrier	15.88	
01 55 26 00-0077	WK	Up To 12.5' Concrete Traffic Barrier	47.64	
01 55 26 00-0078	MO	Up To 12.5' Concrete Traffic Barrier	142.92	
01 55 26 00-0079	DAY	>12.5' To 20' Concrete Traffic Barrier	31.76	
01 55 26 00-0080	WK	>12.5' To 20' Concrete Traffic Barrier	95.28	
01 55 26 00-0081	MO	>12.5' To 20' Concrete Traffic Barrier	285.85	
01 55 26 00-0082	DAY	6' x 32" Tall Plastic Water Barrier	18.96	
01 55 26 00-0083	WK	6' x 32" Tall Plastic Water Barrier	56.89	
01 55 26 00-0084	MO	6' x 32" Tall Plastic Water Barrier	170.68	
01 55 26 00-0085	DAY	6' x 46" Tall Plastic Water Barrier	27.08	
01 55 26 00-0086	WK	6' x 46" Tall Plastic Water Barrier	81.24	
01 55 26 00-0087	MO	6' x 46" Tall Plastic Water Barrier	243.71	
01 55 26 00-0088	DAY	Sand Filled Crash Attenuator Barrels	10.60	
01 55 26 00-0089	WK	Sand Filled Crash Attenuator Barrels	31.80	
01 55 26 00-0090	MO	Sand Filled Crash Attenuator Barrels	95.39	
01 55 26 00-0091	MO	Rolling Straight Concrete Barrier, Per Each Barrier Per Month	3,521.70	
01 55 26 00-0092	MO	Rolling Absorbing Concrete Barrier, Per Each Barrier Per Month	1,408.68	
01 55 26 00-0093	MO	Rolling Transition Concrete Barrier, Per Each Barrier Per Month	375.65	
01 55 26 00-0094	EA	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	6,522.50	
01 55 26 00-0095	MO	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Rental rate after 1st two months.	621.54	
01 55 26 00-0096	EA	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	7,815.54	
01 55 26 00-0097	MO	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Rental rate after 1st two months.	932.31	
01 55 26 00-0098	EA	8 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (71 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	9,522.94	
01 55 26 00-0099	MO	8 Bay, Non-Gating, Redirective Crash Cushion System, 71 MPH, 24" Wide Note: Rental rate after 1st two months.	1,139.49	
01 55 26 00-0100	MO	24" Wide x 32" High x 32" Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER) Note: Consists of 8 bays with nose piece at the front of the system.	1,504.08	

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

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0144 for delivery, placing and removal.

01 55 26 00-0102	DAY	Mesh Or Vinyl Roll-up Sign With Stand	8.32	
01 55 26 00-0103	WK	Mesh Or Vinyl Roll-up Sign With Stand	24.96	
01 55 26 00-0104	MO	Mesh Or Vinyl Roll-up Sign With Stand	74.89	
01 55 26 00-0105	DAY	18" x 18" Aluminum Construction Sign, With Portable Stand	4.24	
01 55 26 00-0106	WK	18" x 18" Aluminum Construction Sign, With Portable Stand	12.73	
01 55 26 00-0107	MO	18" x 18" Aluminum Construction Sign, With Portable Stand	38.19	
01 55 26 00-0108	DAY	30" x 24" Aluminum Construction Sign, With Portable Stand	5.16	
01 55 26 00-0109	WK	30" x 24" Aluminum Construction Sign, With Portable Stand	15.47	
01 55 26 00-0110	MO	30" x 24" Aluminum Construction Sign, With Portable Stand	46.40	
01 55 26 00-0111	DAY	30" x 30" Aluminum Construction Sign, With Portable Stand	4.78	
01 55 26 00-0112	WK	30" x 30" Aluminum Construction Sign, With Portable Stand	14.35	
01 55 26 00-0113	MO	30" x 30" Aluminum Construction Sign, With Portable Stand	43.04	
01 55 26 00-0114	DAY	48" x 18" Aluminum Construction Sign, With Portable Stand	5.46	
01 55 26 00-0115	WK	48" x 18" Aluminum Construction Sign, With Portable Stand	16.39	
01 55 26 00-0116	MO	48" x 18" Aluminum Construction Sign, With Portable Stand	49.16	
01 55 26 00-0117	DAY	48" x 24" Aluminum Construction Sign, With Portable Stand	6.07	
01 55 26 00-0118	WK	48" x 24" Aluminum Construction Sign, With Portable Stand	18.22	
01 55 26 00-0119	MO	48" x 24" Aluminum Construction Sign, With Portable Stand	54.67	
01 55 26 00-0120	DAY	48" x 30" Aluminum Construction Sign, With Portable Stand	6.69	
01 55 26 00-0121	WK	48" x 30" Aluminum Construction Sign, With Portable Stand	20.06	
01 55 26 00-0122	MO	48" x 30" Aluminum Construction Sign, With Portable Stand	60.18	
01 55 26 00-0123	DAY	60" x 24" Aluminum Construction Sign, With Portable Stand	10.31	
01 55 26 00-0124	WK	60" x 24" Aluminum Construction Sign, With Portable Stand	30.94	
01 55 26 00-0125	MO	60" x 24" Aluminum Construction Sign, With Portable Stand	92.81	
01 55 26 00-0126	DAY	60" x 30" Aluminum Construction Sign, With Portable Stand	11.08	
01 55 26 00-0127	WK	60" x 30" Aluminum Construction Sign, With Portable Stand	33.23	
01 55 26 00-0128	MO	60" x 30" Aluminum Construction Sign, With Portable Stand	99.70	
01 55 26 00-0129	DAY	60" x 36" Aluminum Construction Sign, With Portable Stand	11.84	
01 55 26 00-0130	WK	60" x 36" Aluminum Construction Sign, With Portable Stand	35.53	
01 55 26 00-0131	MO	60" x 36" Aluminum Construction Sign, With Portable Stand	106.59	
01 55 26 00-0132	DAY	Aluminum Sign And Post	4.14	
01 55 26 00-0133	WK	Aluminum Sign And Post	12.41	
01 55 26 00-0134	MO	Aluminum Sign And Post	37.22	
01 55 26 00-0135	DAY	Trailer Mounted Flashing Arrow Board	158.00	
01 55 26 00-0136	WK	Trailer Mounted Flashing Arrow Board	437.32	
01 55 26 00-0137	MO	Trailer Mounted Flashing Arrow Board	1,156.77	
01 55 26 00-0138	DAY	Trailer Mounted Portable Variable Message Sign (PVMS)	328.65	
01 55 26 00-0139	WK	Trailer Mounted Portable Variable Message Sign (PVMS)	876.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0140 MO Trailer Mounted Portable Variable Message Sign (PVMS).....	1,752.80	
01 55 26 00-0141 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)..... Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	1,415.54	
01 55 26 00-0142 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)..... Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	4,246.62	
01 55 26 00-0143 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)..... Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.	12,739.86	
01 55 26 00-0144 Place And Remove Temporary Traffic Protection Using Truck <small>(01 55 26 00-0028)</small> Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0050 for delivery >15 miles.		
01 55 26 00-0145 EA Placement And Removal Of Up To 250 Cones Using Truck	3.89	
01 55 26 00-0146 EA Placement And Removal Of >250 Cones Using Truck	3.40	
01 55 26 00-0147 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	6.41	
01 55 26 00-0148 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	5.34	
01 55 26 00-0149 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	9.72	
01 55 26 00-0150 EA Placement And Removal Of >250 Barricades Using Truck	7.77	
01 55 26 00-0151 EA Placement And Removal Of Curbs/Speed Bumps Using Truck	9.72	
01 55 26 00-0152 EA Placement And Removal Of Portable Sign And Stand Using Truck	5.83	
01 55 26 00-0153 EA Placement And Removal Of Aluminum Sign And Post Using Truck.....	24.29	
01 55 26 00-0154 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	72.86	
01 55 26 00-0155 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	98.75	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	246.88	
For 2 Barriers, Add	88.88	
For 3 Barriers, Add	29.63	
01 55 26 00-0156 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	148.12	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	370.30	
For 2 Barriers, Add	133.31	
For 3 Barriers, Add	44.44	
01 55 26 00-0157 EA Placement And Removal Of Plastic Water Barrier.....	56.62	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	123.43	
For 2 Barriers, Add	44.43	
For 3 Barriers, Add	14.81	
01 55 26 00-0158 EA Placement And Removal Of Crash Attenuator Barrels	74.06	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	185.15	
For 2 Barriers, Add	66.65	
For 3 Barriers, Add	22.22	
01 55 26 00-0159 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi- Directional Impact Attenuator (ABSORB 350® BARRIER).....	543.11	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0160 Place And Remove Temporary Traffic Protection From Roadside (Daily) <small>(01 55 26 00-0028)</small>		
01 55 26 00-0161 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside	2.43	
01 55 26 00-0162 EA Placement And Removal Of >250 Cones By Hand From Roadside.....	1.94	
01 55 26 00-0163 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside.....	3.24	
01 55 26 00-0164 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.58	
01 55 26 00-0165 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.85	
01 55 26 00-0166 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.89	
01 55 26 00-0167 EA Placement And Removal Of Portable Sign And Stand From Roadside.....	2.89	
01 55 26 00-0168 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	36.43	
01 55 26 00-0169 EA Roadside Relocation Of Concrete Traffic Barrier.....	49.37	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 26 00-0170 Place And Remove Temporary Signs For Detours <small>(01 55 26 00-0028)</small>		
01 55 26 00-0171 Temporary Reflectorized Signs For Detours <small>(01 55 26 00-0170)</small> Note: Excludes posts.		
01 55 26 00-0172 Temporary Aluminum Engineer Grade Stop Signs For Detours <small>(01 55 26 00-0171)</small>		
01 55 26 00-0173 EA Temporary 18" x 18" Aluminum Engineer Grade Stop Sign For Detours.....	83.92	
For Hi-Intensity Grade, Add	6.95	
For Diamond Grade, Add	13.21	
01 55 26 00-0174 EA Temporary 18" x 24" Aluminum Engineer Grade Stop Sign For Detours.....	94.43	
For Hi-Intensity Grade, Add	9.09	
For Diamond Grade, Add	17.27	
01 55 26 00-0175 EA Temporary 24" x 24" Aluminum Engineer Grade Stop Sign For Detours.....	101.37	
For Hi-Intensity Grade, Add	13.89	
For Diamond Grade, Add	22.02	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0176 EA Temporary 30" x 30" Aluminum Engineer Grade Stop Sign For Detours.....	114.26	
For Hi-Intensity Grade, Add	5.21	
For Diamond Grade, Add	28.20	
01 55 26 00-0177 EA Temporary 36" x 36" Aluminum Engineer Grade Stop Sign For Detours.....	143.77	
For Hi-Intensity Grade, Add	15.29	
For Diamond Grade, Add	47.97	
01 55 26 00-0178 Other Temporary Reflectorized Traffic Signs For Detours <small>(01 55 26 00-0171)</small>		
Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.		
01 55 26 00-0179 Temporary Aluminum Engineer Grade Traffic Signs For Detours <small>(01 55 26 00-0178)</small>		
01 55 26 00-0180 EA Temporary 6" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	59.74	
For Hi-Intensity Grade, Add	1.72	
01 55 26 00-0181 EA Temporary 6" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	62.61	
For Hi-Intensity Grade, Add	2.58	
01 55 26 00-0182 EA Temporary 9" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	62.61	
For Hi-Intensity Grade, Add	2.58	
01 55 26 00-0183 EA Temporary 9" x 15" Aluminum Engineer Grade Traffic Sign For Detours.....	64.76	
For Hi-Intensity Grade, Add	3.23	
01 55 26 00-0184 EA Temporary 9" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	66.92	
For Hi-Intensity Grade, Add	3.88	
01 55 26 00-0185 EA Temporary 9" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	74.60	
For Hi-Intensity Grade, Add	5.17	
01 55 26 00-0186 EA Temporary 9" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	91.82	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0187 EA Temporary 12" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	65.48	
For Hi-Intensity Grade, Add	3.44	
01 55 26 00-0188 EA Temporary 12" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	74.60	
For Hi-Intensity Grade, Add	5.17	
01 55 26 00-0189 EA Temporary 12" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	80.34	
For Hi-Intensity Grade, Add	6.89	
01 55 26 00-0190 EA Temporary 12" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	86.08	
For Hi-Intensity Grade, Add	8.61	
01 55 26 00-0191 EA Temporary 12" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	91.82	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0192 EA Temporary 18" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	83.21	
For Hi-Intensity Grade, Add	7.75	
01 55 26 00-0193 EA Temporary 18" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	91.82	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0194 EA Temporary 18" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	103.81	
For Hi-Intensity Grade, Add	12.92	
01 55 26 00-0195 EA Temporary 18" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	112.42	
For Hi-Intensity Grade, Add	15.50	
01 55 26 00-0196 EA Temporary 18" x 54" Aluminum Engineer Grade Traffic Sign For Detours.....	151.75	
For Hi-Intensity Grade, Add	23.25	
01 55 26 00-0197 EA Temporary 24" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	106.68	
For Hi-Intensity Grade, Add	13.78	
01 55 26 00-0198 EA Temporary 24" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	118.16	
For Hi-Intensity Grade, Add	17.22	
01 55 26 00-0199 EA Temporary 24" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	129.64	
For Hi-Intensity Grade, Add	20.67	
01 55 26 00-0200 EA Temporary 24" x 42" Aluminum Engineer Grade Traffic Sign For Detours.....	154.62	
For Hi-Intensity Grade, Add	24.11	
01 55 26 00-0201 EA Temporary 24" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	166.10	
For Hi-Intensity Grade, Add	27.56	
01 55 26 00-0202 EA Temporary 24" x 54" Aluminum Engineer Grade Traffic Sign For Detours.....	177.58	
For Hi-Intensity Grade, Add	31.00	
01 55 26 00-0203 EA Temporary 30" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	132.51	
For Hi-Intensity Grade, Add	21.53	
01 55 26 00-0204 EA Temporary 30" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	160.36	
For Hi-Intensity Grade, Add	25.83	
01 55 26 00-0205 EA Temporary 30" x 42" Aluminum Engineer Grade Traffic Sign For Detours.....	174.71	
For Hi-Intensity Grade, Add	30.14	
01 55 26 00-0206 EA Temporary 30" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	202.57	
For Hi-Intensity Grade, Add	34.45	
01 55 26 00-0207 EA Temporary 30" x 60" Aluminum Engineer Grade Traffic Sign For Detours.....	244.77	
For Hi-Intensity Grade, Add	43.06	
01 55 26 00-0208 EA Temporary 36" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	177.58	
For Hi-Intensity Grade, Add	31.00	
01 55 26 00-0209 EA Temporary 36" x 42" Aluminum Engineer Grade Traffic Sign For Detours.....	208.31	
For Hi-Intensity Grade, Add	36.17	
01 55 26 00-0210 EA Temporary 36" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	239.03	
For Hi-Intensity Grade, Add	41.33	
01 55 26 00-0211 EA Temporary 36" x 54" Aluminum Engineer Grade Traffic Sign For Detours.....	256.25	
For Hi-Intensity Grade, Add	46.50	
01 55 26 00-0212 EA Temporary 36" x 60" Aluminum Engineer Grade Traffic Sign For Detours.....	286.97	
For Hi-Intensity Grade, Add	51.67	
01 55 26 00-0213 EA Temporary 36" x 73" Aluminum Engineer Grade Traffic Sign For Detours.....	337.79	
For Hi-Intensity Grade, Add	62.86	
01 55 26 00-0214 EA Temporary 36" x 78" Aluminum Engineer Grade Traffic Sign For Detours.....	352.14	
For Hi-Intensity Grade, Add	67.17	
01 55 26 00-0215 EA Temporary 36" x 108" Aluminum Engineer Grade Traffic Sign For Detours.....	458.51	
For Hi-Intensity Grade, Add	93.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0216 EA Temporary 42" x 42" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	241.90 42.20	
01 55 26 00-0217 EA Temporary 48" x 48" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	298.46 55.11	
01 55 26 00-0218 EA Temporary 48" x 54" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	334.92 62.00	
01 55 26 00-0219 EA Temporary 48" x 60" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	357.88 68.89	
01 55 26 00-0220 EA Temporary 48" x 66" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	401.11 75.78	
01 55 26 00-0221 EA Temporary 48" x 72" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	424.07 82.67	
01 55 26 00-0222 EA Temporary 48" x 84" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	483.50 96.45	
01 55 26 00-0223 EA Temporary 48" x 96" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	529.42 110.22	
01 55 26 00-0224 EA Temporary 48" x 102" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	552.39 117.11	
01 55 26 00-0225 EA Temporary 48" x 108" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	582.09 124.00	
01 55 26 00-0226 EA Temporary 60" x 72" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	506.46 103.34	
01 55 26 00-0227 EA Temporary 78" x 96" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	765.80 179.12	
01 55 26 00-0228 Temporary Overhead Sign Structures For Detours (01 55 26 00-0170) Note: Including horizontal Z-bars.		
01 55 26 00-0229 SF From 30 To 360 SF Signs For Temporary Overhead Sign Structures For Detours <i>For Over 10' High, Add</i>	22.50 13.00	
01 55 26 00-0230 Temporary Sign Posts For Detours (01 55 26 00-0170) Note: Excludes sign.		
01 55 26 00-0231 Temporary U-Channel Sign Posts For Detours (01 55 26 00-0230) Note: Excludes digging and concrete.		
01 55 26 00-0232 Temporary Baked Enamel U-Channel Sign Posts For Detours (01 55 26 00-0231)		
01 55 26 00-0233 EA Temporary 3' To 4' Baked Enamel U-Channel Sign Post Base For Detours	74.99	
01 55 26 00-0234 EA Temporary 6' Baked Enamel U-Channel Sign Post For Detours	96.83	
01 55 26 00-0235 EA Temporary 7' Baked Enamel U-Channel Sign Post For Detours	115.82	
01 55 26 00-0236 EA Temporary 8' Baked Enamel U-Channel Sign Post For Detours	135.44	
01 55 26 00-0237 EA Temporary 10' Baked Enamel U-Channel Sign Post For Detours	163.77	
01 55 26 00-0238 EA Temporary 12' Baked Enamel U-Channel Sign Post For Detours	173.85	
01 55 26 00-0239 Temporary Galvanized Steel U-Channel Sign Posts For Detours (01 55 26 00-0231)		
01 55 26 00-0240 EA Temporary 3' To 4' Galvanized Steel U-Channel Sign Post Base For Detours	79.08	
01 55 26 00-0241 EA Temporary 6' Galvanized Steel U-Channel Sign Post For Detours	103.32	
01 55 26 00-0242 EA Temporary 7' Galvanized Steel U-Channel Sign Post For Detours	130.48	
01 55 26 00-0243 EA Temporary 8' Galvanized Steel U-Channel Sign Post For Detours	151.65	
01 55 26 00-0244 EA Temporary 10' Galvanized Steel U-Channel Sign Post For Detours	175.57	
01 55 26 00-0245 EA Temporary 12' Galvanized Steel U-Channel Sign Post For Detours	184.11	
01 55 26 00-0246 Temporary Fiberglass Or Composite Plastic U-Channel Sign Posts For Detours (01 55 26 00-0231)		
01 55 26 00-0247 EA Temporary 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base For Detours	74.03	
01 55 26 00-0248 EA Temporary 6' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	94.74	
01 55 26 00-0249 EA Temporary 7' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	113.29	
01 55 26 00-0250 EA Temporary 8' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	132.43	
01 55 26 00-0251 EA Temporary 10' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	158.30	
01 55 26 00-0252 EA Temporary 12' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours	170.61	
01 55 26 00-0253 Temporary Tubular Sign Posts For Detours (01 55 26 00-0230) Note: Excludes digging and concrete.		
01 55 26 00-0254 Temporary 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours (01 55 26 00-0253)		
01 55 26 00-0255 EA Temporary 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	103.99	
01 55 26 00-0256 EA Temporary 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	123.82	
01 55 26 00-0257 EA Temporary 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	145.71	
01 55 26 00-0258 EA Temporary 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	184.44	
01 55 26 00-0259 EA Temporary 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	197.87	
01 55 26 00-0260 Temporary Square Sign Posts For Detours (01 55 26 00-0230) Note: Excludes digging and concrete.		
01 55 26 00-0261 Temporary Galvanized Steel Square Sign Posts For Detours (01 55 26 00-0260)		
01 55 26 00-0262 EA Temporary 3' To 4' Galvanized Steel Square Sign Post Base For Detours	79.99	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0263 EA Temporary 6' Galvanized Steel Square Sign Post For Detours	118.67	
01 55 26 00-0264 EA Temporary 7' Galvanized Steel Square Sign Post For Detours	140.03	
01 55 26 00-0265 EA Temporary 8' Galvanized Steel Square Sign Post For Detours	163.34	
01 55 26 00-0266 EA Temporary 10' Galvanized Steel Square Sign Post For Detours	199.15	
01 55 26 00-0267 EA Temporary 12' Galvanized Steel Square Sign Post For Detours	213.82	
01 55 26 00-0268 Temporary Breakaway Sign Posts And Bases For Detours <small>(01 55 26 00-0170)</small>		
<small>Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit. Excludes sign.</small>		
01 55 26 00-0269 Temporary 2.5 LB/LF Breakaway Sign Posts And Base Posts For Detours		
<small>(01 55 26 00-0268)</small>		
01 55 26 00-0270 Temporary Base Posts, 2.5 LB/LF, For Breakaway Sign Posts For Detours		
<small>(01 55 26 00-0269)</small>		
01 55 26 00-0271 EA Temporary Base Post for 2.5 LB/LF, Breakaway Sign Post For Detours	102.41	
01 55 26 00-0272 EA Temporary Lap Splice Hardware For 2.5 LB/LF, Breakaway Sign Post For Detours	64.15	
01 55 26 00-0273 Temporary Breakaway Sign Posts, 2.5 LB/LF For Detours <small>(01 55 26 00-0269)</small>		
01 55 26 00-0274 LF Temporary Breakaway Sign Post, 2.5 LB/LF For Detours	12.00	
01 55 26 00-0275 Temporary 4 LB/LF Breakaway Sign Posts And Base Posts For Detours <small>(01 55 26 00-0268)</small>		
01 55 26 00-0276 Temporary Base Posts, 4 LB/LF, For Breakaway Sign Posts For Detours <small>(01 55 26 00-0275)</small>		
01 55 26 00-0277 EA Temporary Base Post for 4 LB/LF, Breakaway Sign Post For Detours	105.79	
01 55 26 00-0278 EA Temporary Lap Splice Hardware for 4 LB/LF, Breakaway Sign Post For Detours	64.15	
01 55 26 00-0279 Temporary Breakaway Sign Posts, 4 LB/LF For Detours <small>(01 55 26 00-0275)</small>		
01 55 26 00-0280 LF Temporary Breakaway Sign Post, 4 LB/LF For Detours	14.09	
01 55 26 00-0281 Temporary Driven Sign Posts For Detours <small>(01 55 26 00-0266)</small>		
01 55 26 00-0282 Temporary Driven Posts, 2.5 LB/LF For Detours <small>(01 55 26 00-0281)</small>		
01 55 26 00-0283 LF Temporary Driven Post, 2.5 LB/LF For Detours	13.80	
<small>For Each Soil Plate, Add</small>	3.00	
01 55 26 00-0284 Temporary Driven Posts, 4 LB/LF For Detours <small>(01 55 26 00-0281)</small>		
01 55 26 00-0285 LF Temporary Driven Post, 4 LB/LF For Detours	16.79	
<small>For Each Soil Plate, Add</small>	3.00	
01 55 26 00-0286 Temporary Omni-Directional Breakaway System For Sign Posts And Light Poles For Detours <small>(01 55 26 00-0268)</small>		
01 55 26 00-0287 Temporary Omni-Directional Breakaway Systems For Signs For Detours <small>(01 55 26 00-0286)</small>		
<small>Note: Break-Safe as manufactured by Transpo Industries. Organized by post type and size. Includes hinges, anchors, all associated parts and drilling.</small>		
01 55 26 00-0288 EA Temporary Omni-Directional Breakaway System For 6" To 8" Wide Flange (Transpo B525)	1,155.38	
01 55 26 00-0289 EA Temporary Omni-Directional Breakaway System For 10" To 21" Wide Flange (Transpo B650)	1,231.26	
01 55 26 00-0290 EA Temporary Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Transpo A14 And A16)	844.09	
01 55 26 00-0291 EA Temporary Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Transpo A3 And A4.5)	739.31	
01 55 26 00-0292 EA Temporary Omni-Directional Breakaway System For Square Tube (Transpo AS3 And AS4)	838.28	
01 55 26 00-0293 EA Temporary Omni-Directional Breakaway System For U-Channels (Transpo AU4 To AU6)	797.51	
01 55 26 00-0294 EA Temporary Omni-Directional Breakaway System For U-Channels Embedded (Transpo AUX4 To AUX6)	750.09	
01 55 26 00-0295 Temporary Omni-Directional Breakaway Systems For Poles For Detours <small>(01 55 26 00-0286)</small>		
<small>Note: Pole-Safe As Manufactured By Transpo Industries. Organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.</small>		
01 55 26 00-0296 EA Temporary Omni-Directional Breakaway System For Poles With 5/8" Couplings	413.94	
01 55 26 00-0297 EA Temporary Omni-Directional Breakaway System For Poles With 3/4" Couplings	434.02	
01 55 26 00-0298 EA Temporary Omni-Directional Breakaway System For Poles With 1" Couplings	450.69	
01 55 26 00-0299 EA Temporary Omni-Directional Breakaway System For Poles With 1 1/4" Couplings	684.35	
01 55 26 00-0300 EA Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15"	60.09	
01 55 26 00-0301 EA Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"	80.13	
01 55 26 00-0302 Temporary Rumble Strips <small>(01 55 26)</small>		
<small>Note: Includes removal after use.</small>		
01 55 26 00-0303 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip	13.57	
01 55 26 00-0304 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip	9.76	



General Requirements	01	10
Temporary Facilities and Controls	01 50	
Temporary Barriers and Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 Temporary Barriers and Enclosures (01 50)

Note: Includes removal after use.

01 56 16 Temporary Dust Barriers (01 56)

01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)

Note: Includes removal after use.

01 56 16 00-0002	SF	6 Mil, Plastic Sheeting, Applied To Floors	0.38
		Note: Includes removal after use.	
01 56 16 00-0003	SF	6 Mil, Plastic Sheeting, Applied To Walls.....	0.49
		Note: Includes removal after use.	
01 56 16 00-0004	SF	6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.65
		Note: Includes removal after use.	
01 56 16 00-0005	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.65
		Note: Includes removal after use.	
01 56 16 00-0006	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.46
		Note: Includes removal after use.	
01 56 16 00-0007	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.57
		Note: Includes removal after use.	
01 56 16 00-0008	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.73
		Note: Includes removal after use.	
01 56 16 00-0009	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.69
		Note: Includes removal after use.	
01 56 16 00-0010	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.89
		Note: Includes removal after use.	
01 56 16 00-0011	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors.....	0.48
		Note: Includes removal after use.	
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls.....	0.59
		Note: Includes removal after use.	
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings.....	0.75
		Note: Includes removal after use.	
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding.....	0.71
		Note: Includes removal after use.	
01 56 16 00-0015	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.48
		Note: Includes removal after use.	
01 56 16 00-0016	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.59
		Note: Includes removal after use.	
01 56 16 00-0017	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.75
		Note: Includes removal after use.	
01 56 16 00-0018	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.71
		Note: Includes removal after use.	
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.54
		Note: Includes removal after use.	
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.65
		Note: Includes removal after use.	
01 56 16 00-0021	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.81
		Note: Includes removal after use.	
01 56 16 00-0022	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.77
		Note: Includes removal after use.	

01 56 16 00-0023 Temporary Canvas For Protection (01 56 16)

Note: Includes removal after use.

01 56 16 00-0024	SF	Heavy Duty Woven Water Repellant Canvas, Applied To Walls.....	1.02
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01 56 16 00-0025 Accessories For Temporary Sheeting (01 56 16)

Note: Includes removal after use.

01 56 16 00-0026	EA	7' Zipper Door For Plastic Sheeting	23.88
		Note: Includes removal after use.	
01 56 16 00-0027	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	9.60
		Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors. Includes removal after use.	

01 56 16 00-0028 Temporary Critical Barriers For Protection (01 56 16)

Note: Includes removal after use.

01 56 16 00-0029	EA	Up To 1 SF Individual Critical Barriers For Outlets And Receptacles	12.92
		Note: Includes removal after use.	
01 56 16 00-0030	EA	>1 To 4 SF Individual Critical Barriers For Diffusers, Ceiling Speakers, Return Grilles, etc.	19.57
		Note: Includes removal after use.	
01 56 16 00-0031	EA	>4 To 8 SF Individual Critical Barriers For Diffusers, Return Grilles, Access Doors, Light Fixtures, etc.	26.31
		Note: Includes removal after use.	
01 56 16 00-0032	EA	>8 To 32 SF Individual Critical Barriers For Doors, Windows, etc.	41.02
		Note: Includes removal after use.	

01 56 16 00-0033 Temporary Stud Wall (01 56 16)

Note: Includes removal after use.

01 56 16 00-0034 Temporary Stud Wall With Drywall (01 56 16 00-0033)

Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 56 16 00-0035		Temporary Stud Wall With Drywall <small>(01 56 16 00-0034)</small>	
01 56 16 00-0036	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.65 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0037	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.65 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0038	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.74 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0039	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.22 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0040	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.22 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0041	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.41 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0042		Temporary Stud Wall With Fire Rated Drywall <small>(01 56 16 00-0034)</small>	
01 56 16 00-0043	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.75 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0044	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.79 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0045	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....6.73 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0046	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....7.45 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0047	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.43 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0048	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.50 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0049	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.39 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0050	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....10.83 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0051		Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0033)</small>	
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.	
01 56 16 00-0052	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....6.59 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0053	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....6.64 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0054	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....6.78 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0055	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....6.86 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.83
01 56 16 00-0056	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.11 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0057	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.21 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0058	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.49 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0059	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....9.65 Note: Includes removal after use.	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.94
01 56 16 00-0060		Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0033)</small>	
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0061 SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.93	0.83
01 56 16 00-0062 SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.12	0.83
01 56 16 00-0063 SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.42	0.83
01 56 16 00-0064 SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.59	0.83
01 56 16 00-0065 SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.79	0.94
01 56 16 00-0066 SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.16	0.94
01 56 16 00-0067 SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.76	0.94
01 56 16 00-0068 SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	11.10	0.94
01 56 16 00-0069 Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0033)</small> Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheathing, and removal after use.		
01 56 16 00-0070 SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.79	0.71
01 56 16 00-0071 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.87	0.71
01 56 16 00-0072 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.89	0.71
01 56 16 00-0073 SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.88	0.71
01 56 16 00-0074 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use. <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.95	0.71
01 56 16 00-0075 Temporary Doors <small>(01 56 16 00-0033)</small> Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0076 EA Temporary Metal Door And Frame Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	642.92	
01 56 16 00-0077 Temporary Floor Protection <small>(01 56 16)</small> Note: Includes removal after use.		
01 56 16 00-0078 SF 1/8" Thick, Masonite For Temporary Floor Protection..... Note: Includes removal after use.	1.77	
01 56 16 00-0079 SF 1/2" Thick, Plywood For Temporary Floor Protection..... Note: Includes removal after use.	1.80	
01 56 16 00-0080 SF 3/4" Thick, Plywood For Temporary Floor Protection..... Note: Includes removal after use.	2.13	
01 56 16 00-0081 LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection..... Note: Includes removal after use.	1.05	
01 56 16 00-0082 LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection Note: Includes removal after use.	0.34	
01 56 16 00-0083 CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film..... Note: Includes removal after use.	27.23	
01 56 16 00-0084 SF Burlap For Temporary Floor Protection Note: Includes removal after use.	0.73	
01 56 16 00-0085 Sticky Mats <small>(01 56 16)</small> Note: Includes removal after use.		
01 56 16 00-0086 EA 18" x 36", 30 Layer Sticky Mat Note: Includes removal after use. <i>For 60 Layers Instead Of 30, Add</i>	37.62	24.84
01 56 16 00-0087 EA 18" x 46", 30 Layer Sticky Mat Note: Includes removal after use. <i>For 60 Layers Instead Of 30, Add</i>	43.14	28.98
01 56 16 00-0088 EA 24" x 36", 30 Layer Sticky Mat Note: Includes removal after use. <i>For 60 Layers Instead Of 30, Add</i>	43.14	28.98
01 56 16 00-0089 EA 25" x 45", 30 Layer Sticky Mat Note: Includes removal after use. <i>For 60 Layers Instead Of 30, Add</i>	56.94	39.33

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0090	EA		36" x 36", 30 Layer Sticky Mat..... Note: Includes removal after use.	62.46	
			<i>For 60 Layers Instead Of 30, Add</i>	43.47	
01 56 16 00-0091	EA		36" x 46", 30 Layer Sticky Mat..... Note: Includes removal after use.	67.98	
			<i>For 60 Layers Instead Of 30, Add</i>	47.61	
01 56 16 00-0092	EA		36" x 60", 30 Layer Sticky Mat..... Note: Includes removal after use.	136.98	
			<i>For 60 Layers Instead Of 30, Add</i>	99.36	
01 56 16 00-0093	EA		36" x 72", 30 Layer Sticky Mat..... Note: Includes removal after use.	163.47	
01 56 26 Temporary Fencing (01 56)					
01 56 26 00-0001			Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards		
01 56 26 00-0002			Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0003			Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004	LF		Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	6.98	
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500, Deduct</i>	-0.51	
			<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0005	LF		Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	7.78	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500, Deduct</i>	-0.57	
			<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0006	LF		Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	10.77	
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.97	
			<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0007	LF		Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	23.93	
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.92	
			<i>For >500, Deduct</i>	-2.87	
			<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0008			Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009	LF		Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	7.33	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500, Deduct</i>	-0.56	
			<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0010	LF		Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	8.15	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500, Deduct</i>	-0.63	
			<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0011	LF		Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	11.40	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.71	
			<i>For >500, Deduct</i>	-1.06	
			<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0012	LF		Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months.....	25.84	
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-3.16	
			<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0013			Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	7.70	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.41	
			<i>For >500, Deduct</i>	-0.62	
			<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	8.58	
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500, Deduct</i>	-0.69	
			<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	12.12	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.17	
			<i>For Each LF Shade Cloth, Add</i>	3.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	27.95	
<i>For >100 To 250, Deduct</i>	-1.16	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-3.48	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months	8.11	
<i>For >100 To 250, Deduct</i>	-0.23	
<i>For >250 To 500, Deduct</i>	-0.45	
<i>For >500, Deduct</i>	-0.68	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months	9.02	
<i>For >100 To 250, Deduct</i>	-0.25	
<i>For >250 To 500, Deduct</i>	-0.51	
<i>For >500, Deduct</i>	-0.76	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months	12.89	
<i>For >100 To 250, Deduct</i>	-0.43	
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500, Deduct</i>	-1.29	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	30.26	
<i>For >100 To 250, Deduct</i>	-1.27	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.82	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	282.92	
<i>For Each LF Shade Cloth, Add</i>	16.09	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	479.11	
<i>For Each LF Shade Cloth, Add</i>	40.21	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	536.89	
<i>For Each LF Shade Cloth, Add</i>	48.26	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	610.85	
<i>For Each LF Shade Cloth, Add</i>	60.32	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	732.24	
<i>For Each LF Shade Cloth, Add</i>	80.43	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	814.43	
<i>For Each LF Shade Cloth, Add</i>	96.51	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	302.63	
<i>For Each LF Shade Cloth, Add</i>	25.64	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	516.84	
<i>For Each LF Shade Cloth, Add</i>	64.09	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	580.37	
<i>For Each LF Shade Cloth, Add</i>	76.91	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	671.86	
<i>For Each LF Shade Cloth, Add</i>	96.13	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	812.44	
<i>For Each LF Shade Cloth, Add</i>	128.18	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	920.64	
<i>For Each LF Shade Cloth, Add</i>	153.81	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	337.74	
<i>For Each LF Shade Cloth, Add</i>	36.19	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	591.48	
<i>For Shade Cloth, Add</i>	90.48	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	662.02	
<i>For Shade Cloth, Add</i>	108.57	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	757.39	
<i>For Shade Cloth, Add</i>	135.72	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	925.65	
<i>For Shade Cloth, Add</i>	180.96	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,072.05	
<i>For Shade Cloth, Add</i>	217.15	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	409.66	
<i>For Each LF Shade Cloth, Add</i>	47.75	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0048	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	710.33	
			<i>For Each LF Shade Cloth, Add</i>	119.38	
01 56 26 00-0049	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	796.60	
			<i>For Each LF Shade Cloth, Add</i>	143.26	
01 56 26 00-0050	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	910.06	
			<i>For Each LF Shade Cloth, Add</i>	179.07	
01 56 26 00-0051	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,112.49	
			<i>For Each LF Shade Cloth, Add</i>	238.76	
01 56 26 00-0052	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,282.66	
			<i>For Each LF Shade Cloth, Add</i>	286.52	
01 56 26 00-0053			Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054			4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	293.69	
			<i>For Each LF Shade Cloth, Add</i>	16.09	
01 56 26 00-0056	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	495.86	
			<i>For Each LF Shade Cloth, Add</i>	40.21	
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	556.04	
			<i>For Each LF Shade Cloth, Add</i>	48.26	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	632.39	
			<i>For Each LF Shade Cloth, Add</i>	60.32	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	758.57	
			<i>For Each LF Shade Cloth, Add</i>	80.43	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	843.15	
			<i>For Each LF Shade Cloth, Add</i>	96.51	
01 56 26 00-0061			6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	313.89	
			<i>For Each LF Shade Cloth, Add</i>	25.64	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	534.36	
			<i>For Each LF Shade Cloth, Add</i>	64.09	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	600.39	
			<i>For Each LF Shade Cloth, Add</i>	76.91	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	694.38	
			<i>For Each LF Shade Cloth, Add</i>	96.13	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	839.97	
			<i>For Each LF Shade Cloth, Add</i>	128.18	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	950.66	
			<i>For Each LF Shade Cloth, Add</i>	153.81	
01 56 26 00-0068			8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	350.13	
			<i>For Each LF Shade Cloth, Add</i>	36.19	
01 56 26 00-0070	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	610.75	
			<i>For Shade Cloth, Add</i>	90.48	
01 56 26 00-0071	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	684.04	
			<i>For Shade Cloth, Add</i>	108.57	
01 56 26 00-0072	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	782.16	
			<i>For Shade Cloth, Add</i>	135.72	
01 56 26 00-0073	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	955.92	
			<i>For Shade Cloth, Add</i>	180.96	
01 56 26 00-0074	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	1,105.08	
			<i>For Shade Cloth, Add</i>	217.15	
01 56 26 00-0075			10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	425.15	
			<i>For Each LF Shade Cloth, Add</i>	47.75	
01 56 26 00-0077	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	734.41	
			<i>For Each LF Shade Cloth, Add</i>	119.38	
01 56 26 00-0078	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	824.13	
			<i>For Each LF Shade Cloth, Add</i>	143.26	
01 56 26 00-0079	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	941.03	
			<i>For Each LF Shade Cloth, Add</i>	179.07	
01 56 26 00-0080	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	1,150.34	
			<i>For Each LF Shade Cloth, Add</i>	238.76	
01 56 26 00-0081	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	1,323.95	
			<i>For Each LF Shade Cloth, Add</i>	286.52	
01 56 26 00-0082			Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083			4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	305.00	
			<i>For Each LF Shade Cloth, Add</i>	16.09	
01 56 26 00-0085	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	513.46	
			<i>For Each LF Shade Cloth, Add</i>	40.21	
01 56 26 00-0086	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	576.14	
			<i>For Each LF Shade Cloth, Add</i>	48.26	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	655.01 60.32	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	786.22 80.43	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	873.31 96.51	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	325.72 25.64	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	552.75 64.09	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	621.41 76.91	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	718.03 96.13	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	868.87 128.18	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	982.19 153.81	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	363.13 36.19	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	630.98 90.48	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	707.16 108.57	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	808.18 135.72	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	987.72 180.96	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	1,139.76 217.15	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	441.41 47.75	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	759.70 119.38	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	853.03 143.26	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	973.54 179.07	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,190.08 238.76	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,367.30 286.52	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	316.31 16.09	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	531.05 40.21	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	596.25 48.26	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	677.63 60.32	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	813.86 80.43	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	903.47 96.51	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	337.54 25.64	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	571.14 64.09	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	642.43 76.91	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	741.67 96.13	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	897.77 128.18	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Each LF Shade Cloth, Add</i>	1,013.72 153.81	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 56 26 00-0126	8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>	
01 56 26 00-0127	EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	376.14
	<i>For Each LF Shade Cloth, Add</i>	36.19
01 56 26 00-0128	EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	651.22
	<i>For Shade Cloth, Add</i>	90.48
01 56 26 00-0129	EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	730.28
	<i>For Shade Cloth, Add</i>	108.57
01 56 26 00-0130	EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	834.19
	<i>For Shade Cloth, Add</i>	135.72
01 56 26 00-0131	EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,019.51
	<i>For Shade Cloth, Add</i>	180.96
01 56 26 00-0132	EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,174.45
	<i>For Shade Cloth, Add</i>	217.15
01 56 26 00-0133	10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>	
01 56 26 00-0134	EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	457.66
	<i>For Each LF Shade Cloth, Add</i>	47.75
01 56 26 00-0135	EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	784.99
	<i>For Each LF Shade Cloth, Add</i>	119.38
01 56 26 00-0136	EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	881.93
	<i>For Each LF Shade Cloth, Add</i>	143.26
01 56 26 00-0137	EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,006.06
	<i>For Each LF Shade Cloth, Add</i>	179.07
01 56 26 00-0138	EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,229.82
	<i>For Each LF Shade Cloth, Add</i>	238.76
01 56 26 00-0139	EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,410.66
	<i>For Each LF Shade Cloth, Add</i>	286.52
01 56 26 00-0140	Temporary Chain Link Fence Panels (Portable) <small>(01 56 26 00-0001)</small>	
	Note: Includes delivery, set-up and removal. Excludes sandbags.	
01 56 26 00-0141	Temporary Chain Link Fence Panels (Portable), Up To 6 Months <small>(01 56 26 00-0140)</small>	
01 56 26 00-0142	LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	7.65
	<i>For >100 To 250, Deduct</i>	-0.20
	<i>For >250 To 500, Deduct</i>	-0.41
	<i>For >500, Deduct</i>	-0.61
	<i>For Each LF Shade Cloth, Add</i>	1.60
01 56 26 00-0143	LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	8.50
	<i>For >100 To 250, Deduct</i>	-0.23
	<i>For >250 To 500, Deduct</i>	-0.45
	<i>For >500, Deduct</i>	-0.68
	<i>For Each LF Shade Cloth, Add</i>	2.55
01 56 26 00-0144	LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	11.63
	<i>For >100 To 250, Deduct</i>	-0.37
	<i>For >250 To 500, Deduct</i>	-0.73
	<i>For >500, Deduct</i>	-1.10
	<i>For Each LF Shade Cloth, Add</i>	3.60
01 56 26 00-0145	Temporary Chain Link Fence Panels (Portable), >6 To 12 Months <small>(01 56 26 00-0140)</small>	
01 56 26 00-0146	LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	7.99
	<i>For >100 To 250, Deduct</i>	-0.22
	<i>For >250 To 500, Deduct</i>	-0.44
	<i>For >500, Deduct</i>	-0.66
	<i>For Each LF Shade Cloth, Add</i>	1.60
01 56 26 00-0147	LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.87
	<i>For >100 To 250, Deduct</i>	-0.25
	<i>For >250 To 500, Deduct</i>	-0.49
	<i>For >500, Deduct</i>	-0.74
	<i>For Each LF Shade Cloth, Add</i>	2.55
01 56 26 00-0148	LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	12.27
	<i>For >100 To 250, Deduct</i>	-0.40
	<i>For >250 To 500, Deduct</i>	-0.80
	<i>For >500, Deduct</i>	-1.19
	<i>For Each LF Shade Cloth, Add</i>	3.60
01 56 26 00-0149	Temporary Chain Link Fence Panels (Portable), >12 To 18 Months <small>(01 56 26 00-0140)</small>	
01 56 26 00-0150	LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.34
	<i>For >100 To 250, Deduct</i>	-0.24
	<i>For >250 To 500, Deduct</i>	-0.47
	<i>For >500, Deduct</i>	-0.71
	<i>For Each LF Shade Cloth, Add</i>	1.60
01 56 26 00-0151	LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	9.31
	<i>For >100 To 250, Deduct</i>	-0.27
	<i>For >250 To 500, Deduct</i>	-0.54
	<i>For >500, Deduct</i>	-0.80
	<i>For Each LF Shade Cloth, Add</i>	2.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	12.99	
<i>For >100 To 250, Deduct</i>	-0.43	
<i>For >250 To 500, Deduct</i>	-0.87	
<i>For >500, Deduct</i>	-1.30	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	8.77	
<i>For >100 To 250, Deduct</i>	-0.26	
<i>For >250 To 500, Deduct</i>	-0.52	
<i>For >500, Deduct</i>	-0.78	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	9.74	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500, Deduct</i>	-0.87	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	13.74	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.41	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag	6.89	
<i>Note: Includes placement and removal.</i>		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
<i>Note: Excludes auguring/drilling for posts.</i>		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.79	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.68	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	8.22	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	10.10	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.90	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	1.08	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.22	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	116.98	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	134.98	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	166.48	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	179.97	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
<i>Note: Includes removal after use.</i>		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.48	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		
<i>Note: Excludes material rental. See CSI section 01 56 29 00-0005 for monthly rental x length.</i>		
01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	184.70	
<i>Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.</i>		
<i>For 3 Post System, Add</i>	6.00	
<i>For Each Additional Foot Over 8' Wide, Add</i>	3.00	
<i>For Each Additional Foot Over 8' High, Add</i>	2.00	
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge	4.71	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
<i>Note: Excludes installation set-up and removal. See CSI section 01 56 29 00-0002 for installation set-up, 01 56 29 00-0016 for removal.</i>		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	15.04	
<i>Note: Includes spanning openings, planking and parapet, lighting and maintenance.</i>		
<i>For 3 Post System, Add</i>	2.26	
01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	16.94	
<i>Note: Includes spanning openings, planking and parapet, lighting and maintenance.</i>		
<i>For 3 Post System, Add</i>	2.54	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0008	LF		Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.82	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	2.82	
01 56 29 00-0009	LF		Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.82	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	2.82	
01 56 29 00-0010	LF		Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	20.68	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	3.10	
01 56 29 00-0011	LF		Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	24.48	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	3.67	
01 56 29 00-0012	LF		Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	22.60	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	3.39	
01 56 29 00-0013	LF		Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	26.36	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	3.95	
01 56 29 00-0014	LF		Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	28.20	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	4.23	
01 56 29 00-0015	LF		Monthly Rental of Netting for Sidewalk Bridge.....	2.82	
01 56 29 00-0016			Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017	LF		Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	38.44	
			Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
			For 3 Post System, Add	2.50	
			For Each Additional Foot Over 8' Wide, Add	1.25	
			For Each Additional Foot Over 8' High, Add	0.75	
01 56 29 00-0018	LF		Removal Of Netting For Sidewalk Bridge.....	2.36	
01 56 29 00-0019			Temporary Safety Nets (01 56 29)		
			Note: Includes removal after use.		
01 56 29 00-0020	SF		Small Mesh Debris Netting.....	2.24	
			Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33			Temporary Security Barriers (01 56)		
01 56 33 00-0001			Board-up Opening With Plywood (01 56 33)		
			Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPNG		Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	13.50	
01 56 33 00-0003	SF		5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	8.51	
01 56 33 00-0004	SF		3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	9.86	
01 56 33 00-0005			Temporary Pedestrian Barricade (01 56 33)		
			Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	14.05	
01 56 33 00-0007	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	34.12	
01 56 33 00-0008	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	102.37	
01 56 39			Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001			Temporary Tree Guards (01 56 39)		
			Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	198.17	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	235.55	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	256.11	
01 57			Temporary Controls (01 50)		
01 57 13			Temporary Erosion and Sediment Control (01 57)		
			See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
01 57 23			Temporary Storm Water Pollution Control (01 57)		
			See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
01 57 23 00-0001			Temporary Drain Guard (01 57 23)		
			Note: Includes removal after use.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 57 23 00-0002 EA 36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	109.23	
01 57 23 00-0003 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	107.16	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	136.25	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	134.16	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	165.33	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001	Project Sign <small>(01 58 13)</small>		
01 58 13 00-0002	MDO Plywood Signs <small>(01 58 13 00-0001)</small>		
	Note: Excludes posts.		
01 58 13 00-0003	Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0004	Engineer Grade, Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0003)</small>		
01 58 13 00-0005	EA Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	173.91	24.75
	For High-Intensity Grade, Add	43.54	
	For Diamond Grade, Add	83.98	
01 58 13 00-0006	EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	300.58	25.88
	For High-Intensity Grade, Add	87.09	
	For Diamond Grade, Add	167.96	
01 58 13 00-0007	EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	427.24	27.00
	For High-Intensity Grade, Add	130.63	
	For Diamond Grade, Add	251.94	
01 58 13 00-0008	EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	553.91	28.13
	For High-Intensity Grade, Add	174.18	
	For Diamond Grade, Add	335.92	
01 58 13 00-0009	SF >32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	17.35	0.90
	For High-Intensity Grade, Add	5.44	
	For Diamond Grade, Add	10.50	
01 58 13 00-0010	Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0011	One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0012	EA Up To 8 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	218.30	24.75
01 58 13 00-0013	EA >8 To 16 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	260.84	25.88
01 58 13 00-0014	EA >16 To 24 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	327.34	27.00
01 58 13 00-0015	EA >24 To 32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	390.13	28.13
01 58 13 00-0016	SF >32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	12.23	0.90
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0018	EA Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	223.05	24.75
01 58 13 00-0019	EA >8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	286.45	25.88
01 58 13 00-0020	EA >16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	353.37	27.00
01 58 13 00-0021	EA >24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	412.44	28.13
01 58 13 00-0022	SF >32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	12.93	0.90
01 58 13 00-0023	Fabricate And Install New Posts <small>(01 58 13 00-0001)</small>		
	Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF Galvanized Metal Channel Sign Posts.....	16.95	
01 58 13 00-0025	LF 4" x 4" Pressure Treated Wood Sign Posts	14.05	
01 58 13 00-0026	LF 4" x 6" Pressure Treated Wood Sign Posts	16.96	
01 58 13 00-0027	Owner Supplied Signs <small>(01 58 13 00-0001)</small>		
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign.....	90.00	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

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

01 66 19 00-0001	Transfer Delivered Materials Between Floors <small>(01 66 19)</small>		
	Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY Transfer Delivered Material Between Floors Via Stairs, Per Floor.....	17.31	
	Note: Quantity equals volume of materials multiplied by number of floors traveled.		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	11.25	
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' ^(01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	7.03	
01 66 19 00-0006 Transfer Demolition Debris Between Floors ^(01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor Note: Quantity equals material volume times bulk factor times number of floors traveled.	17.31	
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	11.25	
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' ^(01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....	7.03	
01 66 19 00-0011 Moving Furniture And Furnishings ^(01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.	1.13	

01 70 Execution and Closeout Requirements ⁽⁰¹⁾

01 71 Examination and Preparation ^(01 70)

01 71 13 Mobilization ^(01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)

Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery. See CSI section 01 22 23 00-0902 for cranes.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	479.26	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,526.88	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		

01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization ^(01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	511.21	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 127.80		
<i>For >60 To 100 Miles Radius, Add</i> 204.48		
01 71 13 00-0006 EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	830.72	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 207.68		
<i>For >60 To 100 Miles Radius, Add</i> 332.29		
01 71 13 00-0007 EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,150.22	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 287.56		
<i>For >60 To 100 Miles Radius, Add</i> 460.09		
01 71 13 00-0008 EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,853.14	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 463.29		
<i>For >60 To 100 Miles Radius, Add</i> 741.26		
01 71 13 00-0009 EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,326.00	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 581.50		
<i>For >60 To 100 Miles Radius, Add</i> 930.40		
01 71 13 00-0010 EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	2,894.72	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i> 723.68		
<i>For >60 To 100 Miles Radius, Add</i> 1,157.89		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,335.65 833.91 1,334.26	
01 71 13 00-0012 EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,731.83 932.96 1,492.73	
01 71 13 00-0013 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	1,980.94 495.24 792.38	
01 71 13 00-0014 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,131.16 782.79 1,252.46	
01 71 13 00-0015 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,961.88 990.47 1,584.75	
01 71 13 00-0016 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	4,920.40 1,230.10 1,968.16	
01 71 13 00-0017 EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	6,134.52 1,533.63 2,453.81	
01 71 13 00-0018 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	7,156.94 1,789.24 2,862.78	
01 71 13 00-0019 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	10,224.20 2,556.05 4,089.68	
01 71 13 00-0020 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	14,019.94 3,504.99 5,607.98	

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16)

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

01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles	1,277.48
01 71 23 16-0003 ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	3,558.15
01 71 23 16-0004 ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings)	5,111.59
01 71 23 16-0005 ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	7,671.25
01 71 23 16-0006 ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	9,598.41

01 71 23 16-0007 Property Lines Survey (01 71 23 16)

Note: Not to be added to tasks in the "Conventional Topographic Survey" section.

01 71 23 16-0008 LF Survey Property Lines On Cleared Land	2.82
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land	3.27
01 71 23 16-0010 LF Survey Property Lines On Wooded Land	3.83

01 71 23 16-0011 Survey Monument (01 71 23 16)

01 71 23 16-0012 EA 3' Precast Survey Monument.....	201.65
<i>For Owner Furnished Monument, Deduct</i>	-79.77
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover	302.12
01 71 23 16-0014 EA Riser Ring For Survey Monument.....	155.98
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade	239.29

01 71 23 16-0016 Facade Surveying (01 71 23 16)

01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	7.75
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01 71 23 16-0018 Utility Survey (01 71 23 16)

Note: This survey is only for the location of underground utilities.

01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities.....	6,531.85
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01 71 23 16-0020 GPR Bridge Deck And Pavement Inspection (01 71 23 16)

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0021			GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0020) Note: One mobilization per project.		
01 71 23 16-0022	EA		GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,965.12	
01 71 23 16-0023			Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0024	EA		Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	2,925.60	
01 71 23 16-0025	SF		Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.23	
01 71 23 16-0026	SF		>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.98	
01 71 23 16-0027	SF		>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.78	
01 71 23 16-0028	SF		>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.59	
01 71 23 16-0029	SF		>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.47	
01 71 23 16-0030	SF		>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.37	
01 71 23 16-0031	SF		>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.27	
01 71 23 16-0032			Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0033	EA		Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection.....	975.20	
01 71 23 16-0034	SF		Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06	
01 71 23 16-0035			Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0036	EA		Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	975.20	
01 71 23 16-0037	SF		Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.45	
01 71 23 16-0038	SF		>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.35	
01 71 23 16-0039	SF		>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.27	
01 71 23 16-0040	SF		>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.21	
01 71 23 16-0041	SF		>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.18	
01 71 23 16-0042	SF		>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.14	
01 71 23 16-0043	SF		>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.10	
01 71 23 16-0044			Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0045	LM		Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	7,251.59	
01 71 23 16-0046	LM		>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,161.60	
01 71 23 16-0047	LM		>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,354.13	
01 71 23 16-0048	LM		>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,285.31	
01 71 23 16-0049	LM		>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,010.31	
01 71 23 16-0050			Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0051	LM		Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	9,227.34	
01 71 23 16-0052	LM		>4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,339.64	
01 71 23 16-0053	LM		>9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,296.18	
01 71 23 16-0054	LM		>49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,847.03	
01 71 23 16-0055	LM		>99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,460.85	
01 71 23 16-0056			Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0057	LM		Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	10,957.35	
01 71 23 16-0058	LM		>4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,369.45	
01 71 23 16-0059	LM		>9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	4,119.24	
01 71 23 16-0060	LM		>49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,338.53	
01 71 23 16-0061	LM		>99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	1,852.88	
01 71 23 16-0062			Drone Survey (Extreme Aerial Productions) (01 71 23 16) Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0063			Mobilization For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0064	EA		Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	262.17	
01 71 23 16-0065	EA		Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	655.42	
01 71 23 16-0066	EA		Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	174.78	
01 71 23 16-0067	EA		Mobilization For Drone Road Survey For Topography/Progression/Inspection	349.56	
01 71 23 16-0068	EA		Mobilization For Drone Survey Stockpile	174.78	



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Examination and Preparation	01 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0069 EA Mobilization For Drone Inspection	174.78	
01 71 23 16-0070 EA Mobilization For Qualitative Drone Thermal Inspection	349.56	
01 71 23 16-0071 EA Mobilization For Quantitative Drone Thermal Inspection	436.95	
01 71 23 16-0072 EA Mobilization For Drone Agricultural Multispectral Survey.....	699.12	
01 71 23 16-0073 EA Mobilization For Drone Building Inspection/Scan/Thermal	524.34	
01 71 23 16-0074 EA Mobilization For Drone 3D Modelling.....	436.95	
01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation	786.51	
01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing	174.78	
01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing	174.78	
01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks.....	174.78	
01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction	174.78	
01 71 23 16-0080 EA Mobilization For Drone Landfill Survey	262.17	
01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones.....	349.56	
01 71 23 16-0082 EA Mobilization For Drone Emergency Response	873.90	
01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection	262.17	
01 71 23 16-0084 Drone Surveying <small>(01 71 23 16-0062)</small>		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	637.95	
Note: 3 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	812.73	
For Visual Observation, Add	262.17	
For Additional Manpower, Add	209.74	
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	524.34	
Note: 3 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection	611.73	
Note: 3 hour minimum		
For Visual Observation, Add	262.17	
For Additional Manpower, Add	174.78	
01 71 23 16-0089 HR Drone Survey Stockpile	436.95	
Note: 3 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0090 HR Drone Inspection.....	611.73	
Note: 3 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection.....	699.12	
Note: 5 hour minimum		
For Visual Observation, Add	262.17	
For Additional Manpower, Add	174.78	
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection	1,048.68	
Note: 5 hour minimum		
For Visual Observation, Add	262.17	
For Additional Manpower, Add	174.78	
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey.....	786.51	
Note: 6 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal.....	699.12	
Note: 3 hour minimum		
For Visual Observation, Add	262.17	
For Additional Manpower, Add	174.78	
01 71 23 16-0095 HR Drone 3D Modelling.....	524.34	
Note: 3 hour minimum		
For Visual Observation, Add	262.17	
For Additional Manpower, Add	174.78	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation	699.12	
Note: 3 hour minimum		
For Visual Observation, Add	218.48	
For Additional Manpower, Add	174.78	
01 71 23 16-0097 HR Drone Video Progression/Marketing	349.56	
Note: 2 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0098 HR Drone Pictures Progression/Marketing	262.17	
Note: 2 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks	524.34	
Note: 3 hour minimum		
01 71 23 16-0100 HR Drone Accident Reconstruction	786.51	
Note: 2 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	
01 71 23 16-0101 HR Drone Landfill Survey	637.95	
Note: 3 hour minimum		
For Visual Observation, Add	174.78	
For Additional Manpower, Add	174.78	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0102	HR		Drone Event Security Using Tethered Drones.....	436.95	
			Note: 3 hour minimum		
			<i>For Visual Observation, Add</i>	174.78	
			<i>For Additional Manpower, Add</i>	174.78	
01 71 23 16-0103	HR		Drone Emergency Response.....	436.95	
			Note: 3 hour minimum		
			<i>For Visual Observation, Add</i>	262.17	
			<i>For Additional Manpower, Add</i>	174.78	
01 71 23 16-0104	HR		Drone Cell Tower Inspection.....	436.95	
			Note: 3 hour minimum		
			<i>For Visual Observation, Add</i>	218.48	
			<i>For Additional Manpower, Add</i>	174.78	
01 71 23 16-0105			Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0106	Day		Utilization Of GPS Ground Control For Drone Surveying.....	436.95	
01 71 23 16-0107	Day		Utilization Of GPS Base Station Per Day For Drone Surveying.....	436.95	
01 71 23 16-0108	HR		Processing And Data Deliverables And Reporting For Drone Surveying.....	174.78	
			Note: 2 hour minimum		
01 71 23 16-0109	HR		Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying.....	349.56	
			Note: 3 hour minimum		
01 71 23 16-0110			Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111	MI		Travel Over 100 Miles For Drone Surveying.....	1.00	
			Note: For additional miles over 100		
01 71 23 16-0112	EA		Overnight Stay Per Person For Drone Surveying.....	218.48	
01 71 23 16-0113	EA		Waiver Utilization B, C, D, And E For Drone Surveying.....	87.39	
			Note: Restricted airspace		
01 71 23 16-0114	EA		Night Waiver For Drone Surveying.....	113.61	
01 71 23 16-0115	EA		Flying Over People Waiver For Drone Surveying.....	174.78	
01 71 23 16-0116	EA		Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	873.90	
01 71 23 16-0117	HR		Editing Video For Drone Surveying.....	174.78	
			Note: 2 hour minimum		
01 71 23 16-0118	HR		Editing Pictures For Drone Surveying.....	87.39	
			Note: 2 hour minimum		
01 71 23 16-0119	HR		Custom Post Processing For Drone Surveying.....	262.17	
			Note: 3 hour minimum		
01 71 36			Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001			Electromagnetic Survey (01 71 36)		
			Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002			Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003	EA		Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,128.06	
01 71 36 00-0004	EA		>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,692.09	
01 71 36 00-0005	EA		>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,384.18	
01 71 36 00-0006			Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007	EA		Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	376.02	
			Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.		
01 71 36 00-0008	EA		GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	752.04	
			Note: Includes GPS coordinates of located items and reference items.		
01 71 36 00-0009	EA		CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,692.09	
			Note: Includes additions to the owner provided CAD drawing.		
01 74			Cleaning and Waste Management (01 70)		
01 74 13			Progress Cleaning (01 74)		
			Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001			General (01 74 13)		
01 74 13 00-0002	CSF		Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	22.53	
01 74 13 00-0003	CY		Collect Existing Debris And Load Into Truck Or Dumpster.....	26.45	
			Note: Per CY of debris removed.		
01 74 16			Site Maintenance (01 74)		
01 74 16 00-0001			Parking Lot, Roads And Pathway Maintenance (01 74 16)		
			Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Cleaning and Waste Management	01 74	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 16 00-0002 Parking Lot, Road, And Street Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	23.45	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	28.14	
01 74 16 00-0005 Runway Sweeping <small>(01 74 16 00-0001)</small>		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	35.18	
01 74 19 Construction Waste Management and Disposal <small>(01 74)</small>		
<small>Note: Tasks in this section shall be used as directed by owner.</small>		
01 74 19 00-0001 Debris Chutes <small>(01 74 19)</small>		
<small>Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.</small>		
01 74 19 00-0002 Steel Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	42.27	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	64.13	
01 74 19 00-0005 Plastic Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	16.74	
<small>For Steel Liner, Add</small>		
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	19.19	
<small>For Steel Liner, Add</small>		
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	21.63	
<small>For Steel Liner, Add</small>		
01 74 19 00-0009 Wood Temporary Debris Chutes <small>(01 74 19 00-0001)</small>		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute.....	33.05	
<small>Note: Includes fabrication and installation.</small>		
01 74 19 00-0011 Construction Dumpsters Rental <small>(01 74 19)</small>		
<small>Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.</small>		
01 74 19 00-0012 EA 10 CY Dumpster (1 Ton) "Construction Debris".....	510.28	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</small>		
<small>For Each Ton Over Indicated Amount, Add</small>		
01 74 19 00-0013 EA 15 CY Dumpster (1.5 Ton) "Construction Debris".....	569.64	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</small>		
<small>For Each Ton Over Indicated Amount, Add</small>		
01 74 19 00-0014 EA 20 CY Dumpster (2 Ton) "Construction Debris".....	629.05	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</small>		
<small>For Each Ton Over Indicated Amount, Add</small>		
01 74 19 00-0015 EA 30 CY Dumpster (3 Ton) "Construction Debris".....	788.97	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</small>		
<small>For Each Ton Over Indicated Amount, Add</small>		
01 74 19 00-0016 EA 40 CY Dumpster (4 Ton) "Construction Debris".....	859.50	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.</small>		
<small>For Each Ton Over Indicated Amount, Add</small>		
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....	753.90	
<small>Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.</small>		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable	822.66	
<small>Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.</small>		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	884.05	
<small>Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.</small>		
01 74 19 00-0020 Concrete Washout Service <small>(01 74 19)</small>		
01 74 19 00-0021 MO Rampless Concrete Washout Bin	541.35	
<small>Note: Includes delivery.</small>		
01 74 19 00-0022 MO Ramped Concrete Washout Bin	649.62	
<small>Note: Includes delivery.</small>		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin	621.54	
<small>Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.</small>		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,346.67	
<small>Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.</small>		
01 74 19 00-0025 Debris Processing Fee <small>(01 74 19)</small>		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0026	Material Recycling Fees <small>(01 74 19 00-0025)</small>	
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center	18.89	
01 74 19 00-0028 CY Drop-Off Non-Reinforced Concrete At Recycling Center	25.31	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center	37.96	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center	32.90	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center	36.69	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center	17.71	
01 74 19 00-0033	Landfill Dump Fees <small>(01 74 19 00-0025)</small>	
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0050 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee	16.84	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee	73.39	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee	20.27	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee	48.34	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	34.35	
01 74 19 00-0039 CY Non-Reinforced Concrete And/Or Rock, 2" Minus	4.20	
01 74 19 00-0040 CY Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1"	5.85	
01 74 19 00-0041 CY Reinforced Concrete not trimmed, 2" Minus	10.40	
01 74 19 00-0042 CY Mixed Asphalt And Concrete, Sized And Trimmed	7.73	
01 74 19 00-0043 CY Asphalt Or Asphalt And Dirt, Sized To 2" Minus	5.85	
01 74 19 00-0044 CY Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus	12.50	
01 74 19 00-0045 CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash)	51.56	
01 74 19 00-0046 CY Clay Loads, Expansive Materials	64.46	
01 74 19 00-0047 CY Clean Asphalt, Sized 2" Minus, No Dirt	9.21	
01 74 19 00-0048 TON General Refuse	77.35	
01 74 19 00-0049 EA Tires	23.63	
01 74 19 00-0050	Hauling <small>(01 74 19)</small>	
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0051 CYM Hauling On Paved Roads, First 15 Miles	1.00	
01 74 19 00-0052 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles	0.67	
01 74 19 00-0053 CYM Hauling On Unimproved Roads, First 15 Miles	1.54	
01 74 19 00-0054 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles	1.20	
01 74 23	Final Cleaning <small>(01 74)</small>	
01 74 23 00-0001	Cleaning Of Glass <small>(01 74 23)</small>	
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces	30.75	

END OF SECTION 01



Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

02 25 16 Existing Concrete, Masonry or Asphalt Assessment ^(02 25)
See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling ^(02 25 16)
See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

02 32 13 Subsurface Drilling and Sampling ^(02 32)
See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001	EA	Mobilization Of Drilling Crew ^(02 32 13)	1,218.53
02 32 13 00-0002	EA	Mobilization Of Drilling Crew	
02 32 13 00-0003		Auger Borings ^(02 32 13)	
02 32 13 00-0004	LF	Standard Auger Hole With Split Spoon Sample At 5' Intervals	36.70
02 32 13 00-0005		Cased Borings In Earth, With Samples ^(02 32 13)	
		Note: All types of soils.	
02 32 13 00-0006	LF	2-1/2" Diameter Cased Borings In Earth, With Samples	94.89
02 32 13 00-0007	LF	4" Diameter Cased Borings In Earth, With Samples	162.29
02 32 13 00-0008		Drilling In Rock, BW Core (2.125") ^(02 32 13)	
02 32 13 00-0009	LF	Drill In Rock, BW Core, With Casing	100.26
		Note: Includes sampling.	
02 32 13 00-0010	EA	Drill In Rock, With BW Core Boxes	9.51
02 32 13 00-0011		Drilling In Rock, NW Core (2.98") ^(02 32 13)	
02 32 13 00-0012	LF	Drill In Rock, NW Core, With Casing	129.67
		Note: Includes sampling.	
02 32 13 00-0013	EA	Drill In Rock, With NW Core Boxes	10.94
02 32 13 00-0014		Test Pits For Boring Activities ^(02 32 13)	
		Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.	
02 32 13 00-0015		Backhoe Dug Test Pits ^(02 32 13 00-0014)	
02 32 13 00-0016	CY	Excavation For Test Pit, Light Material, Backhoe Excavation	71.12
02 32 13 00-0017	CY	Excavation For Test Pits, Medium Material, Backhoe Excavation	82.97
02 32 13 00-0018	CY	Excavation For Test Pit, Heavy Material, Backhoe Excavation	110.63
02 32 13 00-0019		Hand-Dug Test Pits ^(02 32 13 00-0014)	
02 32 13 00-0020	CY	Excavation For Test Pit, Light Soil, Hand Excavation	199.97
02 32 13 00-0021	CY	Excavation For Test Pit, Heavy Soil, Hand Excavation	359.95
02 32 13 00-0022		Shelby Tube Sampling ^(02 32 13)	
02 32 13 00-0023	EA	Shelby Tube Sampling	54.32
02 32 13 00-0024	EA	Penetration Test	44.26
02 32 13 00-0025		Grouting ^(02 32 13)	
02 32 13 00-0026	VLF	Boreholes	10.30
02 32 19		Exploratory Excavations ^(02 32)	
02 32 19 00-0001		Hydro Excavation ^(02 32 19)	
		Note: Assumes on-site disposal.	
02 32 19 00-0002	EA	Hydro Excavation, Mobilization/Demobilization	172.68
02 32 19 00-0003	EA	Hydro Excavation, Minimum Charge	690.70
		Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
02 32 19 00-0004	CY	Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck)	38.37
		Note: Normal soil conditions consist of silt, sand and gravel.	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck)..... 61.39
Note: Adverse soil conditions consist of clay, glacial till and rocks.

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

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	7.49
		<i>For >500 To 1,000, Deduct</i>	-0.75
		<i>For >1,000 To 2,500, Deduct</i>	-1.35
		<i>For >2,500 To 5,000, Deduct</i>	-1.95
		<i>For >5,000 To 10,000, Deduct</i>	-2.55
		<i>For >10,000, Deduct</i>	-3.15
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	11.24
		<i>For >500 To 1,000, Deduct</i>	-1.12
		<i>For >1,000 To 2,500, Deduct</i>	-2.02
		<i>For >2,500 To 5,000, Deduct</i>	-2.92
		<i>For >5,000 To 10,000, Deduct</i>	-3.82
		<i>For >10,000, Deduct</i>	-4.72
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	14.46
		<i>For >500 To 1,000, Deduct</i>	-1.45
		<i>For >1,000 To 2,500, Deduct</i>	-2.60
		<i>For >2,500 To 5,000, Deduct</i>	-3.76
		<i>For >5,000 To 10,000, Deduct</i>	-4.92
		<i>For >10,000, Deduct</i>	-6.07
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	20.42
		<i>For >500 To 1,000, Deduct</i>	-2.04
		<i>For >1,000 To 2,500, Deduct</i>	-3.68
		<i>For >2,500 To 5,000, Deduct</i>	-5.31
		<i>For >5,000 To 10,000, Deduct</i>	-6.94
		<i>For >10,000, Deduct</i>	-8.58
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	28.93
		<i>For >500 To 1,000, Deduct</i>	-2.89
		<i>For >1,000 To 2,500, Deduct</i>	-5.21
		<i>For >2,500 To 5,000, Deduct</i>	-7.52
		<i>For >5,000 To 10,000, Deduct</i>	-9.84
		<i>For >10,000, Deduct</i>	-12.15
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	40.84
		<i>For >500 To 1,000, Deduct</i>	-4.08
		<i>For >1,000 To 2,500, Deduct</i>	-7.35
		<i>For >2,500 To 5,000, Deduct</i>	-10.62
		<i>For >5,000 To 10,000, Deduct</i>	-13.89
		<i>For >10,000, Deduct</i>	-17.15
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	53.40
		<i>For >500 To 1,000, Deduct</i>	-5.34
		<i>For >1,000 To 2,500, Deduct</i>	-9.61
		<i>For >2,500 To 5,000, Deduct</i>	-13.88
		<i>For >5,000 To 10,000, Deduct</i>	-18.16
		<i>For >10,000, Deduct</i>	-22.43
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	69.42
		<i>For >500 To 1,000, Deduct</i>	-6.94
		<i>For >1,000 To 2,500, Deduct</i>	-12.50
		<i>For >2,500 To 5,000, Deduct</i>	-18.05
		<i>For >5,000 To 10,000, Deduct</i>	-23.60
		<i>For >10,000, Deduct</i>	-29.16

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

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

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.83
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.32
02 41 13 13-0013	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving	3.08
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.30
02 41 13 13-0015	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.92
02 41 13 13-0016	SF	>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving	3.84



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0017	By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small> <small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 13 13-0018	SY Up To 3" By Machine, Break-up And Remove Bituminous Paving 16.15 <i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i> 4.85 <i>For Elevated Slab, Add</i> 8.08 <i>For >500 To 1,000, Deduct</i> -1.62 <i>For >1,000 To 2,500, Deduct</i> -2.91 <i>For >2,500 To 5,000, Deduct</i> -4.20 <i>For >5,000 To 10,000, Deduct</i> -5.49 <i>For >10,000, Deduct</i> -6.78		
02 41 13 13-0019	SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving 22.04 <i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i> 6.61 <i>For Elevated Slab, Add</i> 11.02 <i>For >500 To 1,000, Deduct</i> -2.20 <i>For >1,000 To 2,500, Deduct</i> -3.97 <i>For >2,500 To 5,000, Deduct</i> -5.73 <i>For >5,000 To 10,000, Deduct</i> -7.49 <i>For >10,000, Deduct</i> -9.26		
02 41 13 13-0020	SY >6" To 9" By Machine, Break-up And Remove Bituminous Paving 30.58 <i>For Elevated Slab, Add</i> 15.29 <i>For >500 To 1,000, Deduct</i> -3.06 <i>For >1,000 To 2,500, Deduct</i> -5.50 <i>For >2,500 To 5,000, Deduct</i> -7.95 <i>For >5,000 To 10,000, Deduct</i> -10.40 <i>For >10,000, Deduct</i> -12.84		
02 41 13 13-0021	SY >9" To 12" By Machine, Break-up And Remove Bituminous Paving 39.90 <i>For Elevated Slab, Add</i> 19.95 <i>For >500 To 1,000, Deduct</i> -3.99 <i>For >1,000 To 2,500, Deduct</i> -7.18 <i>For >2,500 To 5,000, Deduct</i> -10.37 <i>For >5,000 To 10,000, Deduct</i> -13.57 <i>For >10,000, Deduct</i> -16.76		
02 41 13 13-0022	SY >12" To 15" By Machine, Break-up And Remove Bituminous Paving 55.55 <i>For Elevated Slab, Add</i> 27.78 <i>For >500 To 1,000, Deduct</i> -5.56 <i>For >1,000 To 2,500, Deduct</i> -10.00 <i>For >2,500 To 5,000, Deduct</i> -14.44 <i>For >5,000 To 10,000, Deduct</i> -18.89 <i>For >10,000, Deduct</i> -23.33		
02 41 13 13-0023	SY Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving 18.57 <i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i> 5.57 <i>For Elevated Slab, Add</i> 9.29 <i>For >500 To 1,000, Deduct</i> -1.86 <i>For >1,000 To 2,500, Deduct</i> -3.34 <i>For >2,500 To 5,000, Deduct</i> -4.83 <i>For >5,000 To 10,000, Deduct</i> -6.31 <i>For >10,000, Deduct</i> -7.80		
02 41 13 13-0024	SY >3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving 24.30 <i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i> 7.29 <i>For Elevated Slab, Add</i> 12.15 <i>For >500 To 1,000, Deduct</i> -2.43 <i>For >1,000 To 2,500, Deduct</i> -4.37 <i>For >2,500 To 5,000, Deduct</i> -6.32 <i>For >5,000 To 10,000, Deduct</i> -8.26 <i>For >10,000, Deduct</i> -10.21		
02 41 13 13-0025	SY >6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving 43.39 <i>For Elevated Slab, Add</i> 21.70 <i>For >500 To 1,000, Deduct</i> -4.34 <i>For >1,000 To 2,500, Deduct</i> -7.81 <i>For >2,500 To 5,000, Deduct</i> -11.28 <i>For >5,000 To 10,000, Deduct</i> -14.75 <i>For >10,000, Deduct</i> -18.22		
02 41 13 13-0026	SY >9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving 56.69 <i>For Elevated Slab, Add</i> 28.35 <i>For >500 To 1,000, Deduct</i> -5.67 <i>For >1,000 To 2,500, Deduct</i> -10.20 <i>For >2,500 To 5,000, Deduct</i> -14.74 <i>For >5,000 To 10,000, Deduct</i> -19.27 <i>For >10,000, Deduct</i> -23.81		
02 41 13 13-0027	SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving 24.65 <i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i> 7.40 <i>For Elevated Slab, Add</i> 12.33 <i>For >500 To 1,000, Deduct</i> -2.47 <i>For >1,000 To 2,500, Deduct</i> -4.44 <i>For >2,500 To 5,000, Deduct</i> -6.41 <i>For >5,000 To 10,000, Deduct</i> -8.38 <i>For >10,000, Deduct</i> -10.35		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028	SY		>3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	31.94	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	9.58	
			<i>For Elevated Slab, Add</i>	15.97	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000 To 2,500, Deduct</i>	-5.75	
			<i>For >2,500 To 5,000, Deduct</i>	-8.30	
			<i>For >5,000 To 10,000, Deduct</i>	-10.86	
			<i>For >10,000, Deduct</i>	-13.41	
02 41 13 13-0029	SY		>6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	52.94	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	15.88	
			<i>For Elevated Slab, Add</i>	26.47	
			<i>For >500 To 1,000, Deduct</i>	-5.29	
			<i>For >1,000 To 2,500, Deduct</i>	-9.53	
			<i>For >2,500 To 5,000, Deduct</i>	-13.76	
			<i>For >5,000 To 10,000, Deduct</i>	-18.00	
			<i>For >10,000, Deduct</i>	-22.23	
02 41 13 13-0030	SY		Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	26.73	
			<i>For Elevated Slab, Add</i>	13.37	
			<i>For >500 To 1,000, Deduct</i>	-2.67	
			<i>For >1,000 To 2,500, Deduct</i>	-4.81	
			<i>For >2,500 To 5,000, Deduct</i>	-6.95	
			<i>For >5,000 To 10,000, Deduct</i>	-9.09	
			<i>For >10,000, Deduct</i>	-11.23	
02 41 13 13-0031	SY		>3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	34.36	
			<i>For Elevated Slab, Add</i>	17.18	
			<i>For >500 To 1,000, Deduct</i>	-3.44	
			<i>For >1,000 To 2,500, Deduct</i>	-6.18	
			<i>For >2,500 To 5,000, Deduct</i>	-8.93	
			<i>For >5,000 To 10,000, Deduct</i>	-11.68	
			<i>For >10,000, Deduct</i>	-14.43	
02 41 13 13-0032	SY		>6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	61.44	
			<i>For Elevated Slab, Add</i>	30.72	
			<i>For >500 To 1,000, Deduct</i>	-6.14	
			<i>For >1,000 To 2,500, Deduct</i>	-11.06	
			<i>For >2,500 To 5,000, Deduct</i>	-15.97	
			<i>For >5,000 To 10,000, Deduct</i>	-20.89	
			<i>For >10,000, Deduct</i>	-25.80	
02 41 13 13-0033	SY		>9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	80.19	
			<i>For Elevated Slab, Add</i>	40.10	
			<i>For >500 To 1,000, Deduct</i>	-8.02	
			<i>For >1,000 To 2,500, Deduct</i>	-14.43	
			<i>For >2,500 To 5,000, Deduct</i>	-20.85	
			<i>For >5,000 To 10,000, Deduct</i>	-27.26	
			<i>For >10,000, Deduct</i>	-33.68	
02 41 13 13-0034	SY		>14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	104.84	
			<i>For Elevated Slab, Add</i>	52.42	
			<i>For >500 To 1,000, Deduct</i>	-10.48	
			<i>For >1,000 To 2,500, Deduct</i>	-18.87	
			<i>For >2,500 To 5,000, Deduct</i>	-27.26	
			<i>For >5,000 To 10,000, Deduct</i>	-35.65	
			<i>For >10,000, Deduct</i>	-44.03	
02 41 13 13-0035	SY		>19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	127.23	
			<i>For Elevated Slab, Add</i>	63.62	
			<i>For >500 To 1,000, Deduct</i>	-12.72	
			<i>For >1,000 To 2,500, Deduct</i>	-22.90	
			<i>For >2,500 To 5,000, Deduct</i>	-33.08	
			<i>For >5,000 To 10,000, Deduct</i>	-43.26	
			<i>For >10,000, Deduct</i>	-53.44	
02 41 13 13-0036			By Hand, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
			Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0037	SF		>6" To 9" By Hand, Break-up And Remove Bituminous Paving	7.00	
02 41 13 13-0038	SF		Up To 3" By Hand, Break-up And Remove Concrete Paving	5.12	
02 41 13 13-0039	SF		>3" To 6" By Hand, Break-up And Remove Concrete Paving	7.07	
02 41 13 13-0040	SF		>6" To 9" By Hand, Break-up And Remove Concrete Paving	9.04	
02 41 13 13-0041	SF		Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	7.17	
02 41 13 13-0042	SF		>3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	9.89	
02 41 13 13-0043	SF		>6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	12.66	
02 41 13 13-0044			Grind Concrete <small>(02 41 13 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0045 EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....	252.00	
Note: For each location up to 5' wide, feather up to 12" each direction.		
<i>For >1/2" To 1" Depth Of Grinding, Add</i>	37.80	
<i>For >1" To 1-1/2" Depth Of Grinding, Add</i>	63.00	
<i>For Up To 5, Add</i>	50.40	
<i>For >5 To 10, Add</i>	25.20	
<i>For >25 To 50, Deduct</i>	-25.20	
<i>For >50 To 250, Deduct</i>	-37.80	
<i>For >250, Deduct</i>	-50.40	
<i>For Sidewalks >5', Add</i>	25.20	
<i>For Up To 12" Additional Feathering Per Side, Add</i>	25.20	
 02 41 13 13-0046 Repair Uneven Sidewalks (02 41 13 13)		
Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2=1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0047 IF Up To 2000 Inch Feet Repair Uneven Sidewalks.....	86.61	
02 41 13 13-0048 IF 2000 To 3000 Inch Feet Repair Uneven Sidewalks.....	82.16	
02 41 13 13-0049 IF 3000 And Up Inch Feet Repair Uneven Sidewalks.....	77.72	
 02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15)		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	7.96	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	9.96	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	13.32	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	26.51	
 02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0001)		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal.....	15.10	
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal.....	23.59	
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal.....	30.23	
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal.....	37.84	
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal.....	46.49	
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square.....	26.10	
 02 41 19 13-0009 Masonry Chimney Removal (02 41 19 13-0001)		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	30.62	
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	22.99	
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	17.60	
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	12.18	
 02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping (02 41 19 13-0001)		
Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	21.05	
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	31.26	
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	59.30	
 02 41 19 13-0018 Facade Removal (02 41 19 13-0001)		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal.....	5.75	
<i>For Cleaning and Storage For Reuse, Add</i>	8.63	
<i>For Reinforcing, Add</i>	0.86	
 02 41 19 13-0020 Exterior Masonry Removal (02 41 19 13-0001)		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0021 SF Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall.....	5.05	
02 41 19 13-0022 SF Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall.....	5.70	
02 41 19 13-0023 SF Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall.....	6.89	
02 41 19 13-0024 SF Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall.....	7.54	
02 41 19 13-0025 SF Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall.....	8.28	
02 41 19 13-0026 SF Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall.....	10.35	
02 41 19 13-0027 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall.....	5.98	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
02 41 19 13-0028	SF	Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.84	
02 41 19 13-0029	SF	Demolish 8" Thick Reinforced Concrete Block Exterior Wall	8.28	
02 41 19 13-0030	SF	Demolish 10" Thick Reinforced Concrete Block Exterior Wall	9.05	
02 41 19 13-0031	SF	Demolish 12" Thick Reinforced Concrete Block Exterior Wall	9.93	
02 41 19 13-0032	SF	Demolish 16" Thick Reinforced Concrete Block Exterior Wall	12.43	
02 41 19 13-0033	SF	Demolish 4" Thick Brick Exterior Wall	5.05	
		<i>For Cleaning and Storage For Reuse, Add</i>	7.58	
02 41 19 13-0034	SF	Demolish 6" Thick Brick Exterior Wall	5.70	
		<i>For Cleaning and Storage For Reuse, Add</i>	8.55	
02 41 19 13-0035	SF	Demolish 8" Thick Brick Exterior Wall	6.89	
		<i>For Cleaning and Storage For Reuse, Add</i>	10.34	
02 41 19 13-0036	SF	Demolish 10" Thick Brick Exterior Wall	7.54	
		<i>For Cleaning and Storage For Reuse, Add</i>	11.31	
02 41 19 13-0037	SF	Demolish 12" Thick Brick Exterior Wall	8.28	
		<i>For Cleaning and Storage For Reuse, Add</i>	12.42	
02 41 19 13-0038	SF	Demolish 16" Thick Brick Exterior Wall	10.35	
		<i>For Cleaning and Storage For Reuse, Add</i>	15.53	
02 41 19 13-0039	CF	Exterior Brick, Concrete Block Or Composite Removal	14.72	
		<i>For Cleaning and Storage For Reuse, Add</i>	22.08	
		<i>For Reinforcing, Add</i>	2.21	
02 41 19 13-0040		Lintel Removal <small>(02 41 19 13-0001)</small>		
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0041	LF	Demolish Steel Lintel	13.72	
02 41 19 13-0042	LF	Demolish Concrete Or Stone Lintel	18.29	
02 41 19 13-0043	LF	Demolish Steel Shelf Angle	14.48	
02 41 19 13-0044		Reinstall Lintel <small>(02 41 19 13-0001)</small>		
		Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0045	LF	Clean, Prime And Paint Steel Shelf Angle Or Lintel	9.38	
02 41 19 13-0046	LF	Reinstall Existing Concrete Or Stone Lintel	18.29	
02 41 19 13-0047	LF	Reinstall Existing Steel Shelf Angle	52.11	
		Note: Includes fasteners.		
02 41 19 13-0048	LF	Reinstall Existing Steel Lintel	20.33	
02 41 19 13-0049	LF	Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	86.99	
02 41 19 13-0050	LF	Removal And Replacement Of Steel Lintel Over Window Openings	163.99	
02 41 19 13-0051		Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0052	SF	Demolish 4" Thick Reinforced Concrete Exterior Wall	6.88	
02 41 19 13-0053	SF	Demolish 6" Thick Reinforced Concrete Exterior Wall	12.46	
02 41 19 13-0054	SF	Demolish 8" Thick Reinforced Concrete Exterior Wall	15.65	
02 41 19 13-0055	SF	Demolish 10" Thick Reinforced Concrete Exterior Wall	18.47	
02 41 19 13-0056	SF	Demolish 12" Thick Reinforced Concrete Exterior Wall	21.84	
02 41 19 13-0057		Saw Cutting <small>(02 41 19 13)</small>		
		Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0058	EA	Saw Cut Minimum Set-up Charge, One Per Project	1,120.70	
		Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0059	LF	Bituminous Paving Up To 4" Depth, Saw Cut	2.37	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	0.92	
		<i>For >250, Deduct</i>	-0.23	
02 41 19 13-0060	LF	Brick Masonry Up To 4" Depth, Saw Cut	8.98	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	3.56	
		<i>For >250, Deduct</i>	-0.89	
02 41 19 13-0061	LF	Concrete Block Up To 4" Depth, Saw Cut	8.12	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	3.22	
		<i>For >250, Deduct</i>	-0.80	
02 41 19 13-0062	LF	Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.71	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	1.05	
		<i>For >250, Deduct</i>	-0.26	
02 41 19 13-0063	LF	Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.58	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	1.39	
		<i>For >250, Deduct</i>	-0.34	
02 41 19 13-0064	LF	Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.95	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	2.33	
		<i>For >250, Deduct</i>	-0.58	
02 41 19 13-0065	LF	Plain Concrete Walls Up To 4" Depth, Saw Cut	11.49	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	4.56	
		<i>For >250, Deduct</i>	-1.14	
02 41 19 13-0066	LF	Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	15.44	
		<i>For Each Additional Pass (Depth To 3"), Add</i>	6.13	
		<i>For >250, Deduct</i>	-1.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0067 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	3.14	
<i>For Each Additional Pass (Depth To 3"), Add</i>	1.13	
<i>For >250, Deduct</i>	-0.27	
02 41 19 13-0068 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	8.14	
<i>For Each Additional Pass (Depth To 3"), Add</i>	3.22	
<i>For >250, Deduct</i>	-0.80	
02 41 19 13-0069 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut.....	8.14	
<i>For Each Additional Pass (Depth To 3"), Add</i>	3.22	
<i>For >250, Deduct</i>	-0.80	
02 41 19 13-0070 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	8.14	
<i>For Each Additional Pass (Depth To 3"), Add</i>	3.22	
<i>For >250, Deduct</i>	-0.80	
02 41 19 13-0071 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut.....	8.14	
<i>For Each Additional Pass (Depth To 3"), Add</i>	3.22	
<i>For >250, Deduct</i>	-0.80	
02 41 19 13-0072 Torch Cutting <small>(02 41 19 13)</small>		
Note: Includes grinding edge		
02 41 19 13-0073 LF Up To 1/2", Torch Cut Steel Plate.....	3.02	
02 41 19 13-0074 LF >1/2" To 1" Thick, Torch Cut Steel Plate.....	6.06	
02 41 19 13-0075 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate.....	9.08	
02 41 19 13-0076 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate.....	12.11	
02 41 19 13-0077 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate.....	15.13	
02 41 19 13-0078 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate.....	18.16	
02 41 19 13-0079 EA Torch Cutting Minimum Charge.....	999.06	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0080 Drilling In Existing Materials <small>(02 41 19 13)</small>		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0081 Concrete Core Drilling <small>(02 41 19 13-0080)</small>		
02 41 19 13-0082 Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>		
02 41 19 13-0083 EA Drill 1" Diameter Core In Up To 4" Concrete.....	44.09	
<i>For Horizontal Cores, Add</i>	8.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	17.44	
02 41 19 13-0084 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	48.92	
<i>For Horizontal Cores, Add</i>	9.69	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	19.37	
02 41 19 13-0085 EA Drill 2" Diameter Core In Up To 4" Concrete.....	54.31	
<i>For Horizontal Cores, Add</i>	10.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.53	
02 41 19 13-0086 EA Drill 3" Diameter Core In Up To 4" Concrete.....	77.55	
<i>For Horizontal Cores, Add</i>	15.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.76	
02 41 19 13-0087 EA Drill 4" Diameter Core In Up To 4" Concrete.....	103.91	
<i>For Horizontal Cores, Add</i>	20.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.21	
02 41 19 13-0088 EA Drill 6" Diameter Core In Up To 4" Concrete.....	116.45	
<i>For Horizontal Cores, Add</i>	23.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.14	
02 41 19 13-0089 EA Drill 8" Diameter Core In Up To 4" Concrete.....	186.07	
<i>For Horizontal Cores, Add</i>	36.91	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.82	
02 41 19 13-0090 EA Drill 10" Diameter Core In Up To 4" Concrete.....	232.76	
<i>For Horizontal Cores, Add</i>	46.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	92.27	
02 41 19 13-0091 EA Drill 12" Diameter Core In Up To 4" Concrete.....	271.63	
<i>For Horizontal Cores, Add</i>	53.83	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	107.66	
02 41 19 13-0092 EA Drill 14" Diameter Core In Up To 4" Concrete.....	310.52	
<i>For Horizontal Cores, Add</i>	61.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.02	
02 41 19 13-0093 EA Drill 18" Diameter Core In Up To 4" Concrete.....	349.79	
<i>For Horizontal Cores, Add</i>	69.20	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	138.39	
02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>		
02 41 19 13-0095 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	63.03	
<i>For Horizontal Cores, Add</i>	12.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.91	
02 41 19 13-0096 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	69.94	
<i>For Horizontal Cores, Add</i>	13.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.68	
02 41 19 13-0097 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	77.63	
<i>For Horizontal Cores, Add</i>	15.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.75	
02 41 19 13-0098 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	93.30	
<i>For Horizontal Cores, Add</i>	18.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.91	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0099	EA		Drill 4" Diameter Core In >4" To 6" Concrete	116.70	
			<i>For Horizontal Cores, Add</i>	23.07	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.14	
02 41 19 13-0100	EA		Drill 6" Diameter Core In >4" To 6" Concrete	155.48	
			<i>For Horizontal Cores, Add</i>	30.76	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	61.52	
02 41 19 13-0101	EA		Drill 8" Diameter Core In >4" To 6" Concrete	232.99	
			<i>For Horizontal Cores, Add</i>	46.14	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	92.27	
02 41 19 13-0102	EA		Drill 10" Diameter Core In >4" To 6" Concrete	272.25	
			<i>For Horizontal Cores, Add</i>	53.83	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	107.66	
02 41 19 13-0103	EA		Drill 12" Diameter Core In >4" To 6" Concrete	311.28	
			<i>For Horizontal Cores, Add</i>	61.51	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.02	
02 41 19 13-0104	EA		Drill 14" Diameter Core In >4" To 6" Concrete	350.51	
			<i>For Horizontal Cores, Add</i>	69.20	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	138.39	
02 41 19 13-0105	EA		Drill 18" Diameter Core In >4" To 6" Concrete	390.32	
			<i>For Horizontal Cores, Add</i>	76.89	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	153.78	
02 41 19 13-0106			>6" To 8" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>		
02 41 19 13-0107	EA		Drill 1" Diameter Core In >6" To 8" Concrete	69.53	
			<i>For Horizontal Cores, Add</i>	13.70	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.40	
02 41 19 13-0108	EA		Drill 1-1/2" Diameter Core In >6" To 8" Concrete	77.14	
			<i>For Horizontal Cores, Add</i>	15.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.45	
02 41 19 13-0109	EA		Drill 2" Diameter Core In >6" To 8" Concrete	85.61	
			<i>For Horizontal Cores, Add</i>	16.92	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.84	
02 41 19 13-0110	EA		Drill 3" Diameter Core In >6" To 8" Concrete	101.36	
			<i>For Horizontal Cores, Add</i>	19.99	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.98	
02 41 19 13-0111	EA		Drill 4" Diameter Core In >6" To 8" Concrete	132.54	
			<i>For Horizontal Cores, Add</i>	26.14	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.28	
02 41 19 13-0112	EA		Drill 6" Diameter Core In >6" To 8" Concrete	186.82	
			<i>For Horizontal Cores, Add</i>	36.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.82	
02 41 19 13-0113	EA		Drill 8" Diameter Core In >6" To 8" Concrete	310.64	
			<i>For Horizontal Cores, Add</i>	61.51	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.02	
02 41 19 13-0114	EA		Drill 10" Diameter Core In >6" To 8" Concrete	350.12	
			<i>For Horizontal Cores, Add</i>	69.20	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	138.39	
02 41 19 13-0115	EA		Drill 12" Diameter Core In >6" To 8" Concrete	389.41	
			<i>For Horizontal Cores, Add</i>	76.89	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	153.78	
02 41 19 13-0116	EA		Drill 14" Diameter Core In >6" To 8" Concrete	428.92	
			<i>For Horizontal Cores, Add</i>	84.56	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	169.13	
02 41 19 13-0117	EA		Drill 18" Diameter Core In >6" To 8" Concrete	469.29	
			<i>For Horizontal Cores, Add</i>	92.27	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	184.54	
02 41 19 13-0118			>8" To 10" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>		
02 41 19 13-0119	EA		Drill 1" Diameter Core In >8" To 10" Concrete	82.25	
			<i>For Horizontal Cores, Add</i>	16.19	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.39	
02 41 19 13-0120	EA		Drill 1-1/2" Diameter Core In >8" To 10" Concrete	91.24	
			<i>For Horizontal Cores, Add</i>	17.99	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.98	
02 41 19 13-0121	EA		Drill 2" Diameter Core In >8" To 10" Concrete	101.24	
			<i>For Horizontal Cores, Add</i>	19.99	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.98	
02 41 19 13-0122	EA		Drill 3" Diameter Core In >8" To 10" Concrete	117.11	
			<i>For Horizontal Cores, Add</i>	23.07	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.14	
02 41 19 13-0123	EA		Drill 4" Diameter Core In >8" To 10" Concrete	133.02	
			<i>For Horizontal Cores, Add</i>	26.14	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.28	
02 41 19 13-0124	EA		Drill 6" Diameter Core In >8" To 10" Concrete	187.39	
			<i>For Horizontal Cores, Add</i>	36.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.82	
02 41 19 13-0125	EA		Drill 8" Diameter Core In >8" To 10" Concrete	311.42	
			<i>For Horizontal Cores, Add</i>	61.51	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.02	
02 41 19 13-0126	EA		Drill 10" Diameter Core In >8" To 10" Concrete	351.15	
			<i>For Horizontal Cores, Add</i>	69.20	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	138.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0127 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	390.58	
For Horizontal Cores, Add	76.88	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	153.75	
02 41 19 13-0128 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	430.48	
For Horizontal Cores, Add	84.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	169.13	
02 41 19 13-0129 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	471.24	
For Horizontal Cores, Add	92.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	184.50	
02 41 19 13-0130 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0131 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	88.75	
For Horizontal Cores, Add	17.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.88	
02 41 19 13-0132 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	98.43	
For Horizontal Cores, Add	19.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.75	
02 41 19 13-0133 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	109.21	
For Horizontal Cores, Add	21.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.06	
02 41 19 13-0134 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	117.48	
For Horizontal Cores, Add	23.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.14	
02 41 19 13-0135 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	156.57	
For Horizontal Cores, Add	30.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.52	
02 41 19 13-0136 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	203.36	
For Horizontal Cores, Add	39.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	79.98	
02 41 19 13-0137 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	327.61	
For Horizontal Cores, Add	64.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	129.18	
02 41 19 13-0138 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	352.18	
For Horizontal Cores, Add	69.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	138.39	
02 41 19 13-0139 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	407.31	
For Horizontal Cores, Add	79.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	159.95	
02 41 19 13-0140 >12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete.....	10.79	
For Horizontal Cores, Add	2.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.26	
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	11.97	
For Horizontal Cores, Add	2.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.74	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete.....	13.29	
For Horizontal Cores, Add	2.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.26	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete.....	14.59	
For Horizontal Cores, Add	2.88	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.76	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete.....	19.45	
For Horizontal Cores, Add	3.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.69	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete.....	25.29	
For Horizontal Cores, Add	5.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.00	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete.....	40.80	
For Horizontal Cores, Add	8.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.16	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete.....	43.95	
For Horizontal Cores, Add	8.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.37	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete.....	50.63	
For Horizontal Cores, Add	10.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.00	
02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)		
02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block.....	35.38	
For Horizontal Cores, Add	6.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.96	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block.....	39.23	
For Horizontal Cores, Add	7.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.50	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block.....	43.55	
For Horizontal Cores, Add	8.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.22	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0155	EA		Drill 3" Diameter Core In Up To 4" Brick/Concrete Block.....	62.18	
			<i>For Horizontal Cores, Add</i>	12.30	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.61	
02 41 19 13-0156	EA		Drill 4" Diameter Core In Up To 4" Brick/Concrete Block.....	83.31	
			<i>For Horizontal Cores, Add</i>	16.49	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.97	
02 41 19 13-0157	EA		Drill 6" Diameter Core In Up To 4" Brick/Concrete Block.....	93.38	
			<i>For Horizontal Cores, Add</i>	18.45	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.91	
02 41 19 13-0158	EA		Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	149.16	
			<i>For Horizontal Cores, Add</i>	29.53	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	59.06	
02 41 19 13-0159	EA		Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	186.63	
			<i>For Horizontal Cores, Add</i>	36.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.82	
02 41 19 13-0160	EA		Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	217.80	
			<i>For Horizontal Cores, Add</i>	43.06	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	86.12	
02 41 19 13-0161	EA		Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	249.01	
			<i>For Horizontal Cores, Add</i>	49.21	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	98.42	
02 41 19 13-0162	EA		Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	280.59	
			<i>For Horizontal Cores, Add</i>	55.36	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	110.71	
02 41 19 13-0163			>4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0164	EA		Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	50.57	
			<i>For Horizontal Cores, Add</i>	9.96	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	19.93	
02 41 19 13-0165	EA		Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	56.10	
			<i>For Horizontal Cores, Add</i>	11.07	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.14	
02 41 19 13-0166	EA		Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block.....	62.25	
			<i>For Horizontal Cores, Add</i>	12.30	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.60	
02 41 19 13-0167	EA		Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block.....	74.84	
			<i>For Horizontal Cores, Add</i>	14.76	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.52	
02 41 19 13-0168	EA		Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block.....	93.63	
			<i>For Horizontal Cores, Add</i>	18.45	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.91	
02 41 19 13-0169	EA		Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block.....	124.72	
			<i>For Horizontal Cores, Add</i>	24.61	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.21	
02 41 19 13-0170	EA		Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block.....	186.86	
			<i>For Horizontal Cores, Add</i>	36.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.82	
02 41 19 13-0171	EA		Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block.....	218.42	
			<i>For Horizontal Cores, Add</i>	43.06	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	86.12	
02 41 19 13-0172	EA		Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block.....	249.77	
			<i>For Horizontal Cores, Add</i>	49.21	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	98.42	
02 41 19 13-0173	EA		Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block.....	281.31	
			<i>For Horizontal Cores, Add</i>	55.36	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	110.71	
02 41 19 13-0174	EA		Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block.....	313.43	
			<i>For Horizontal Cores, Add</i>	61.51	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	123.02	
02 41 19 13-0175			>6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0176	EA		Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block.....	55.83	
			<i>For Horizontal Cores, Add</i>	10.96	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	21.92	
02 41 19 13-0177	EA		Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	61.92	
			<i>For Horizontal Cores, Add</i>	12.18	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.36	
02 41 19 13-0178	EA		Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	68.68	
			<i>For Horizontal Cores, Add</i>	13.53	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.06	
02 41 19 13-0179	EA		Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	81.37	
			<i>For Horizontal Cores, Add</i>	15.99	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.99	
02 41 19 13-0180	EA		Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	106.40	
			<i>For Horizontal Cores, Add</i>	20.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.83	
02 41 19 13-0181	EA		Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	149.91	
			<i>For Horizontal Cores, Add</i>	29.53	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	59.06	
02 41 19 13-0182	EA		Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	249.13	
			<i>For Horizontal Cores, Add</i>	49.21	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	98.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	280.92	
For Horizontal Cores, Add	55.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	110.71	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	312.52	
For Horizontal Cores, Add	61.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	123.02	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	344.36	
For Horizontal Cores, Add	67.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	135.30	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	377.02	
For Horizontal Cores, Add	73.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	147.64	
02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	66.05	
For Horizontal Cores, Add	12.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.91	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	73.25	
For Horizontal Cores, Add	14.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.79	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	81.24	
For Horizontal Cores, Add	15.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.98	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	94.04	
For Horizontal Cores, Add	18.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.91	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	106.88	
For Horizontal Cores, Add	20.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.83	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	150.48	
For Horizontal Cores, Add	29.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.06	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	249.91	
For Horizontal Cores, Add	49.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.42	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	281.95	
For Horizontal Cores, Add	55.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	110.71	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	313.70	
For Horizontal Cores, Add	61.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	123.00	
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	345.92	
For Horizontal Cores, Add	67.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	135.30	
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	378.99	
For Horizontal Cores, Add	73.80	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	147.60	
02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	71.31	
For Horizontal Cores, Add	13.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.90	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block	79.06	
For Horizontal Cores, Add	15.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.00	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	87.67	
For Horizontal Cores, Add	17.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.45	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	94.41	
For Horizontal Cores, Add	18.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.91	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	125.81	
For Horizontal Cores, Add	24.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.21	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	163.37	
For Horizontal Cores, Add	31.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	63.98	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	263.01	
For Horizontal Cores, Add	51.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.34	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	282.98	
For Horizontal Cores, Add	55.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	110.71	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	327.33	
For Horizontal Cores, Add	63.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	127.96	
02 41 19 13-0209 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block	8.66	
For Horizontal Cores, Add	1.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.41	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0211	IN		Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	9.60	
			<i>For Horizontal Cores, Add</i>	1.89	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.79	
02 41 19 13-0212	IN		Drill 2" Diameter Core In >12" Brick/Concrete Block	10.66	
			<i>For Horizontal Cores, Add</i>	2.11	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.21	
02 41 19 13-0213	IN		Drill 3" Diameter Core In >12" Brick/Concrete Block	11.71	
			<i>For Horizontal Cores, Add</i>	2.31	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.61	
02 41 19 13-0214	IN		Drill 4" Diameter Core In >12" Brick/Concrete Block	15.61	
			<i>For Horizontal Cores, Add</i>	3.08	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.15	
02 41 19 13-0215	IN		Drill 6" Diameter Core In >12" Brick/Concrete Block	20.28	
			<i>For Horizontal Cores, Add</i>	4.00	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.00	
02 41 19 13-0216	IN		Drill 8" Diameter Core In >12" Brick/Concrete Block	32.71	
			<i>For Horizontal Cores, Add</i>	6.46	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.93	
02 41 19 13-0217	IN		Drill 10" Diameter Core In >12" Brick/Concrete Block	35.26	
			<i>For Horizontal Cores, Add</i>	6.95	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.90	
02 41 19 13-0218	IN		Drill 12" Diameter Core In >12" Brick/Concrete Block	40.63	
			<i>For Horizontal Cores, Add</i>	8.00	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.00	
02 41 19 13-0219			Asphalt Core Drilling (02 41 19 13-0080)		
02 41 19 13-0220			Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0221	EA		Drill 1" Diameter Core In Up To 2" Asphalt	21.15	
02 41 19 13-0222	EA		Drill 1-1/2" Diameter Core In Up To 2" Asphalt	26.44	
02 41 19 13-0223	EA		Drill 2" Diameter Core In Up To 2" Asphalt	33.05	
02 41 19 13-0224	EA		Drill 3" Diameter Core In Up To 2" Asphalt	41.01	
02 41 19 13-0225	EA		Drill 4" Diameter Core In Up To 2" Asphalt	51.60	
02 41 19 13-0226	EA		Drill 6" Diameter Core In Up To 2" Asphalt	64.83	
02 41 19 13-0227	EA		Drill 8" Diameter Core In Up To 2" Asphalt	80.74	
02 41 19 13-0228	EA		Drill 10" Diameter Core In Up To 2" Asphalt	100.55	
02 41 19 13-0229	EA		Drill 12" Diameter Core In Up To 2" Asphalt	125.67	
02 41 19 13-0230			>2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0231	EA		Drill 1" Diameter Core In >2" To 3" Asphalt	26.43	
02 41 19 13-0232	EA		Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	34.35	
02 41 19 13-0233	EA		Drill 2" Diameter Core In >2" To 3" Asphalt	42.30	
02 41 19 13-0234	EA		Drill 3" Diameter Core In >2" To 3" Asphalt	52.88	
02 41 19 13-0235	EA		Drill 4" Diameter Core In >2" To 3" Asphalt	66.11	
02 41 19 13-0236	EA		Drill 6" Diameter Core In >2" To 3" Asphalt	83.31	
02 41 19 13-0237	EA		Drill 8" Diameter Core In >2" To 3" Asphalt	103.19	
02 41 19 13-0238	EA		Drill 10" Diameter Core In >2" To 3" Asphalt	129.59	
02 41 19 13-0239	EA		Drill 12" Diameter Core In >2" To 3" Asphalt	161.31	
02 41 19 13-0240			>3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0241	EA		Drill 1" Diameter Core In >3" To 4" Asphalt	34.36	
02 41 19 13-0242	EA		Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	43.64	
02 41 19 13-0243	EA		Drill 2" Diameter Core In >3" To 4" Asphalt	54.21	
02 41 19 13-0244	EA		Drill 3" Diameter Core In >3" To 4" Asphalt	67.45	
02 41 19 13-0245	EA		Drill 4" Diameter Core In >3" To 4" Asphalt	84.67	
02 41 19 13-0246	EA		Drill 6" Diameter Core In >3" To 4" Asphalt	105.85	
02 41 19 13-0247	EA		Drill 8" Diameter Core In >3" To 4" Asphalt	132.37	
02 41 19 13-0248	EA		Drill 10" Diameter Core In >3" To 4" Asphalt	165.39	
02 41 19 13-0249	EA		Drill 12" Diameter Core In >3" To 4" Asphalt	206.37	
02 41 19 13-0250			>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0251	EA		Drill 1" Diameter Core In >4" To 6" Asphalt	44.97	
02 41 19 13-0252	EA		Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	55.58	
02 41 19 13-0253	EA		Drill 2" Diameter Core In >4" To 6" Asphalt	68.81	
02 41 19 13-0254	EA		Drill 3" Diameter Core In >4" To 6" Asphalt	87.38	
02 41 19 13-0255	EA		Drill 4" Diameter Core In >4" To 6" Asphalt	108.60	
02 41 19 13-0256	EA		Drill 6" Diameter Core In >4" To 6" Asphalt	135.08	
02 41 19 13-0257	EA		Drill 8" Diameter Core In >4" To 6" Asphalt	169.61	
02 41 19 13-0258	EA		Drill 10" Diameter Core In >4" To 6" Asphalt	211.91	
02 41 19 13-0259	EA		Drill 12" Diameter Core In >4" To 6" Asphalt	264.82	
02 41 19 13-0260			Manhole Core Drilling (02 41 19 13-0080)		
02 41 19 13-0261	EA		Drill 4" Diameter Core In 6" Brick Manhole	231.60	
02 41 19 13-0262	EA		Drill 5" Diameter Core In 6" Brick Manhole	264.67	
02 41 19 13-0263	EA		Drill 6" Diameter Core In 6" Brick Manhole	308.68	
02 41 19 13-0264	EA		Drill 8" Diameter Core In 6" Brick Manhole	462.91	
02 41 19 13-0265	EA		Drill 2" Diameter Core In 8" Concrete Manhole	310.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0266 EA Drill 3" Diameter Core In 8" Concrete Manhole.....	330.42	
02 41 19 13-0267 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	363.76	
02 41 19 13-0268 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	390.30	
02 41 19 13-0269 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	462.90	
02 41 19 13-0270 EA Drill 8" Diameter Core In 8" Concrete Manhole.....	661.14	
02 41 19 13-0271 EA Drill 2" Diameter Core In Fiberglass Manhole.....	30.77	
02 41 19 13-0272 EA Drill 3" Diameter Core In Fiberglass Manhole.....	35.53	
02 41 19 13-0273 EA Drill 4" Diameter Core In Fiberglass Manhole.....	38.50	
02 41 19 13-0274 EA Drill 5" Diameter Core In Fiberglass Manhole.....	41.99	
02 41 19 13-0275 EA Drill 6" Diameter Core In Fiberglass Manhole.....	46.20	
02 41 19 13-0276 EA Drill 8" Diameter Core In Fiberglass Manhole.....	51.33	
02 41 19 13-0277		
Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0278 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.17	
02 41 19 13-0279 IN 5/16" Diameter Drilling In Concrete Per Inch Of Depth.....	2.30	
02 41 19 13-0280 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.42	
02 41 19 13-0281 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.60	
02 41 19 13-0282 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.77	
02 41 19 13-0283 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.04	
02 41 19 13-0284 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.30	
02 41 19 13-0285 IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	3.46	
02 41 19 13-0286 IN 1-1/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.08	
02 41 19 13-0287 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.83	
02 41 19 13-0288 IN 1-3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.08	
02 41 19 13-0289 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	4.33	
02 41 19 13-0290 IN 1-3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	4.81	
02 41 19 13-0291 IN 2" Diameter Drilling In Concrete Per Inch Of Depth.....	5.59	
02 41 19 13-0292		
Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0293 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.81	
02 41 19 13-0294 IN 5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.92	
02 41 19 13-0295 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.02	
02 41 19 13-0296 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.17	
02 41 19 13-0297 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.31	
02 41 19 13-0298 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.54	
02 41 19 13-0299 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.74	
02 41 19 13-0300 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.89	
02 41 19 13-0301 IN 1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.04	
02 41 19 13-0302 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.19	
02 41 19 13-0303 IN 1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.40	
02 41 19 13-0304 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.62	
02 41 19 13-0305 IN 1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.03	
02 41 19 13-0306 IN 2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.65	
02 41 19 13-0307		
Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0308 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.90	
02 41 19 13-0309 IN 5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.96	
02 41 19 13-0310 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.01	
02 41 19 13-0311 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.08	
02 41 19 13-0312 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.15	
02 41 19 13-0313 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.26	
02 41 19 13-0314 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.37	
02 41 19 13-0315 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.44	
02 41 19 13-0316 IN 1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.51	
02 41 19 13-0317 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.58	
02 41 19 13-0318 IN 1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.69	
02 41 19 13-0319 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.80	
02 41 19 13-0320 IN 1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.00	
02 41 19 13-0321 IN 2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.32	
02 41 19 13-0322		
Limestone Core Drilling (02 41 19 13-0080)		
02 41 19 13-0323		
10" To 14" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0324 EA Drill 1" Diameter Core In 10" To 14" Limestone.....	66.44	
02 41 19 13-0325 EA Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	79.80	
02 41 19 13-0326 EA Drill 2" Diameter Core In 10" To 14" Limestone.....	86.56	
02 41 19 13-0327 EA Drill 3" Diameter Core In 10" To 14" Limestone.....	100.12	
02 41 19 13-0328 EA Drill 4" Diameter Core In 10" To 14" Limestone.....	113.69	
02 41 19 13-0329 EA Drill 6" Diameter Core In 10" To 14" Limestone.....	160.20	
02 41 19 13-0330 EA Drill 8" Diameter Core In 10" To 14" Limestone.....	266.32	
02 41 19 13-0331		
15" To 18" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0332 EA Drill 1" Diameter Core In 15" To 18" Limestone.....	73.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0333 EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	86.54	
02 41 19 13-0334 EA Drill 2" Diameter Core In 15" To 18" Limestone.....	93.36	
02 41 19 13-0335 EA Drill 3" Diameter Core In 15" To 18" Limestone.....	100.42	
02 41 19 13-0336 EA Drill 4" Diameter Core In 15" To 18" Limestone.....	133.83	
02 41 19 13-0337 EA Drill 6" Diameter Core In 15" To 18" Limestone.....	173.81	
02 41 19 13-0338 EA Drill 8" Diameter Core In 15" To 18" Limestone.....	280.21	
02 41 19 13-0339 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0340 EA Drill 1" Diameter Core In 19" To 24" Limestone.....	79.86	
02 41 19 13-0341 EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	93.28	
02 41 19 13-0342 EA Drill 2" Diameter Core In 19" To 24" Limestone.....	100.14	
02 41 19 13-0343 EA Drill 3" Diameter Core In 19" To 24" Limestone.....	113.82	
02 41 19 13-0344 EA Drill 4" Diameter Core In 19" To 24" Limestone.....	160.49	
02 41 19 13-0345 EA Drill 6" Diameter Core In 19" To 24" Limestone.....	200.56	
02 41 19 13-0346 EA Drill 8" Diameter Core In 19" To 24" Limestone.....	300.70	
02 41 19 13-0347 Minimum Charge For Core Drilling (02 41 19 13-0080)		
02 41 19 13-0348 EA Core Drill Minimum Charge.....	901.87	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
02 41 19 13-0349 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0350 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0349)		
02 41 19 13-0351 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	51.19	
02 41 19 13-0352 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	54.30	
02 41 19 13-0353 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	57.40	
02 41 19 13-0354 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	60.51	
02 41 19 13-0355 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	62.05	
02 41 19 13-0356 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0349)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0357 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	62.39	
02 41 19 13-0358 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	66.18	
02 41 19 13-0359 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	69.96	
02 41 19 13-0360 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	73.74	
02 41 19 13-0361 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	75.63	
02 41 19 13-0362 Reinforced Concrete Wall Cutouts (02 41 19 13-0349)		
02 41 19 13-0363 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	63.99	
02 41 19 13-0364 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	67.87	
02 41 19 13-0365 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	71.75	
02 41 19 13-0366 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	75.63	
02 41 19 13-0367 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	77.57	
02 41 19 13-0368 Brick Wall Cutouts (02 41 19 13-0349)		
Note: Excludes toothing.		
02 41 19 13-0369 SF 4" Thick Brick Wall Cutouts, <24 SF.....	19.40	
02 41 19 13-0370 SF 6" Thick Brick Wall Cutouts, <24 SF.....	32.00	
02 41 19 13-0371 SF 8" Thick Brick Wall Cutouts, <24 SF.....	44.55	
02 41 19 13-0372 SF 10" Thick Brick Wall Cutouts, <24 SF.....	54.30	
02 41 19 13-0373 SF 12" Thick Brick Wall Cutouts, <24 SF.....	64.97	
02 41 19 13-0374 SF 16" Thick Brick Wall Cutouts, <24 SF.....	76.60	
02 41 19 13-0375 Concrete Block Wall Cutouts (02 41 19 13-0349)		
Note: Excludes toothing.		
02 41 19 13-0376 SF 4" Thick Concrete Block Wall Cutouts, <24 SF.....	32.08	
02 41 19 13-0377 SF 6" Thick Concrete Block Wall Cutouts, <24 SF.....	33.97	
02 41 19 13-0378 SF 8" Thick Concrete Block Wall Cutouts, <24 SF.....	35.88	
02 41 19 13-0379 SF 10" Thick Concrete Block Wall Cutouts, <24 SF.....	37.82	
02 41 19 13-0380 SF 12" Thick Concrete Block Wall Cutouts, <24 SF.....	38.78	
02 41 19 13-0381 SF 16" Thick Concrete Block Wall Cutouts, <24 SF.....	40.72	
02 41 19 13-0382 Limestone Cutouts (02 41 19 13-0349)		
02 41 19 13-0383 SF 2" Thick Limestone Cutouts, <24 SF.....	54.30	
02 41 19 13-0384 SF 4" Thick Limestone Cutouts, <24 SF.....	65.93	
02 41 19 13-0385 SF 6" Thick Limestone Cutouts, <24 SF.....	69.81	
02 41 19 13-0386 SF 8" Thick Limestone Cutouts, <24 SF.....	73.69	
02 41 19 13-0387 SF 10" Thick Limestone Cutouts, <24 SF.....	77.57	
02 41 19 13-0388 SF 12" Thick Limestone Cutouts, <24 SF.....	81.45	



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 41 19 13-0389	Toothing Masonry Cutouts <small>(02 41 19 13-0349)</small> Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.	
02 41 19 13-0390	VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	19.40
02 41 19 13-0391	VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	26.18
02 41 19 13-0392	VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts.....	11.63
02 41 19 13-0393	VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts.....	15.52

02 41 19 13-0394	Minimum Charge For Cutouts <small>(02 41 19 13-0349)</small> Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0395	EA Cutouts Minimum Charge.....	387.84

02 43 Structure Moving (02 40)

02 43 13 Structure Relocation (02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

02 43 13 13 Building Relocation (02 43 13)

02 43 13 13-0001	Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete <small>(02 43 13 13)</small> Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.	
02 43 13 13-0002	SF Up To 800 SF, Move Relocatable Metal Frame Building.....	37.26
02 43 13 13-0003	SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	35.22
02 43 13 13-0004	SF >920 SF, Move Relocatable Metal Frame Building.....	32.96
02 43 13 13-0005	SF Up To 800 SF, Move Relocatable Wood Frame Building.....	29.90
02 43 13 13-0006	SF >800 To 920 SF, Move Relocatable Wood Frame Building.....	27.95
02 43 13 13-0007	SF >920 SF, Move Relocatable Wood Frame Building.....	24.72
02 43 13 13-0008	SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	36.21
02 43 13 13-0009	SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building.....	32.96
02 43 13 13-0010	SF >920 SF, Move Relocatable Wood/Metal Frame Building.....	27.95

02 60 Contaminated Site Material Removal (02)

02 61 Removal and Disposal of Contaminated Soils (02 60)

02 61 13 Excavation and Handling of Contaminated Material (02 61)

See CSI section 31 23 16 00-0000 for excavation.

02 61 13 00-0001	Excavation Of Non-Petroleum Contaminated Soil <small>(02 61 13)</small> See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.	
02 61 13 00-0002	Excavate Non-Petroleum Contaminated Soil <small>(02 61 13 00-0001)</small>	
02 61 13 00-0003	CY Excavate Non-Petroleum Contaminated Soil..... Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	9.43
02 61 13 00-0004	CY Load Excavated Non-Petroleum Contaminated Soil.....	8.24
02 61 13 00-0005	CY Disposal Fees Of Non-Petroleum Contaminated Soil.....	48.34
02 61 13 00-0006	Excavate Petroleum Contaminated Soil <small>(02 61 13)</small>	
02 61 13 00-0007	CY Excavate Petroleum Contaminated Soil..... Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	14.14
02 61 13 00-0008	CY Load Excavated Petroleum Contaminated Soil.....	8.24
02 61 13 00-0009	CY Disposal Fees Of Petroleum Contaminated Soil.....	77.44
02 61 13 00-0010	Accessories For Contaminated Soil Stockpile <small>(02 61 13)</small> See CSI section 31 25 14 23-0001 for sand bags.	
02 61 13 00-0011	SF 30 Mil Liner For Contaminated Soil Storage..... Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	1.53
02 61 13 00-0012	SF 10 Mil Liner For Contaminated Soil Storage..... Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.91

02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less

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02 60 Contaminated Site Material Removal

02 61 Removal and Disposal of Contaminated Soils



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

02 61 26 00-0001		Removal and Disposal of Asbestos Contaminated Soils <small>(02 61 26)</small>	
<i>Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.</i>			
02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	1,193.26
		<i>For Work In Restricted Working Space, Add</i>	357.98
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	79.10
		<i>For Work In Restricted Working Space, Add</i>	23.73
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	52.73
		<i>For Work In Restricted Working Space, Add</i>	15.82
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	39.61
		<i>For Work In Restricted Working Space, Add</i>	11.88
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	31.64
		<i>For Work In Restricted Working Space, Add</i>	9.49
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	26.90
		<i>For Work In Restricted Working Space, Add</i>	8.07
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	24.20
		<i>For Work In Restricted Working Space, Add</i>	7.26

02 65 Underground Storage Tank Removal (02 60)

Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0050 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.

02 65 00 00-0001		Monitoring, Sampling, Testing And Analysis <small>(02 65)</small>	
02 65 00 00-0002		Field Samples For Testing Underground Storage Tank <small>(02 65 00 00-0001)</small>	
02 65 00 00-0003	EA	Collection Of Sludge Sample For Underground Storage Tank	25.46
02 65 00 00-0004	EA	Collection Of Pumpable Liquids Sample For Underground Storage Tank	25.46
02 65 00 00-0005	EA	Collection Of Contaminated Soil Sample	25.46

02 65 00 00-0006		Lab Tests For Underground Storage Tank Removal <small>(02 65 00 00-0001)</small>	
<i>Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.</i>			
02 65 00 00-0007	EA	Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test	202.69
		<i>Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.</i>	
02 65 00 00-0008	EA	Flashpoint, Lab Test	78.82
		<i>Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.</i>	
02 65 00 00-0009	EA	TOX 9020, Lab Test	189.62
		<i>Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.</i>	
02 65 00 00-0010	EA	TPH 8015 Modified, Lab Test	202.69
		<i>Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.</i>	
02 65 00 00-0011	EA	TRPH 418.1, Lab Test	157.65
		<i>Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.</i>	
02 65 00 00-0012	EA	VOC, Lab Test	427.90
		<i>Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.</i>	
02 65 00 00-0013	EA	Semi-Volatile Organic, Lab Test	788.24
		<i>Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.</i>	
02 65 00 00-0014	EA	Oil And Grease 413.1, Lab Test	94.81
		<i>Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.</i>	
02 65 00 00-0015	EA	TCLP (Extraction) - Metals, Lab Test	168.91
		<i>Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.</i>	
02 65 00 00-0016	EA	TCLP (Extraction) - Semi-Volatile Organic, Lab Test	225.21
		<i>Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.</i>	
02 65 00 00-0017	EA	Metals 6010 RCRA, Lab Test	252.24
		<i>Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.</i>	
02 65 00 00-0018	EA	Metals (Arsenic) 7060, Lab Test	33.78
		<i>Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.</i>	
02 65 00 00-0019	EA	Metals (Selenium) 7740, Lab Test	33.78
		<i>Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.</i>	
02 65 00 00-0020	EA	Metals (Lead) 7421, Lab Test	33.78
		<i>Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.</i>	
02 65 00 00-0021	EA	Metals (Mercury) 7470, Lab Test	63.06
		<i>Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.</i>	
02 65 00 00-0022	EA	PNA/PAH 8100, Lab Test	360.34
		<i>Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.</i>	
02 65 00 00-0023	EA	Fuel Id ASTM D3328-78, Lab Test	130.36
		<i>Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.</i>	



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Contaminated Site Material Removal		02 60
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02 65 00 00-0024 EA pH, Lab Test.....	27.03	
02 65 00 00-0025 EA Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater.....	337.82	
02 65 00 00-0026 EA Methyl Tertiary Butyl Ether (MTBE), Lab Test.....	202.69	
02 65 00 00-0027 Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0028 EA Site Survey For AST/UST Location By Certified Tank Installer..... Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	1,133.67	
02 65 00 00-0029 EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems..... Note: By Certified Technician. Write report of findings for action if needed	198.14	
02 65 00 00-0030 EA Check And Report On Monitor Probes..... Note: By Certified Technician	45.77	
02 65 00 00-0031 EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report..... Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	320.94	
02 65 00 00-0032 EA Removal And Replacement Of Anode On Impressed System.....	177.34	
02 65 00 00-0033 EA Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank.....	254.40	
02 65 00 00-0034 EA Removal And Replacement Of Monitor Probes On Underground Storage Tank.....	363.38	
02 65 00 00-0035 EA Ultrasonic Test On Underground Storage Tank.....	208.14	
02 65 00 00-0036 Tests And Sampling Labor Hours (02 65 00 00-0001)		
02 65 00 00-0037 HR Certified Tank Installer For Underground Storage Tank.....	120.63	
02 65 00 00-0038 HR Certified Geologist/Environmentalist.....	122.90	
02 65 00 00-0039 HR Hourly Office Work For Reports Required For EPA On Underground Storage Tank..... Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	131.93	
02 65 00 00-0040 Remove Tank Contents (02 65)		
02 65 00 00-0041 Transfer Liquid (02 65 00 00-0040)		
Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042 GAL Transfer Reusable Liquid To Different Tank..... Note: Per gallon of material transferred.	0.63	
02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)		
02 65 00 00-0044 GAL Removal and Disposal Of Hazardous Liquids From Tank.....	1.89	
02 65 00 00-0045 GAL Removal and Disposal Of Non-Hazardous Liquid From Tank.....	0.84	
02 65 00 00-0046 Sludge (02 65 00 00-0040)		
Note: Includes scraping and solidifying agent.		
02 65 00 00-0047 GAL Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....	6.71	
02 65 00 00-0048 GAL Removal and Disposal Of Non-Hazardous Solids Or Sludge From Tank.....	1.53	
02 65 00 00-0049 Purge Vapors, Open And Clean Tank (02 65)		
02 65 00 00-0050 Purge Vapors (02 65 00 00-0049)		
02 65 00 00-0051 LB Purge Tank Using Dry Ice..... Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.	5.05	
02 65 00 00-0052 High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049)		
Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053 EA Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	345.72	
02 65 00 00-0054 EA >275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	453.89	
02 65 00 00-0055 EA >550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	589.42	
02 65 00 00-0056 EA >1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	798.77	
02 65 00 00-0057 EA >2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,550.33	
02 65 00 00-0058 EA >5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,864.21	
02 65 00 00-0059 EA >6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,140.38	
02 65 00 00-0060 EA >8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,587.58	
02 65 00 00-0061 EA >10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,339.77	
02 65 00 00-0062 EA >15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	4,015.31	
02 65 00 00-0063 EA >20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	5,090.87	
02 65 00 00-0064 EA >30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	6,268.43	
02 65 00 00-0065 EA >40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	7,667.23	
02 65 00 00-0066 Scrape Clean Tank Exterior (02 65 00 00-0049)		
02 65 00 00-0067 EA Up To 275 Gallon Tank, Scrape Clean Tank Exterior.....	250.73	
02 65 00 00-0068 EA >275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....	333.87	
02 65 00 00-0069 EA >550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....	437.49	
02 65 00 00-0070 EA >1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....	605.83	
02 65 00 00-0071 EA >2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,341.64	



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02 65 00 00-0072	EA	>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,698.80
02 65 00 00-0073	EA	>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	1,987.90
02 65 00 00-0074	EA	>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	2,499.07
02 65 00 00-0075	EA	>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	3,248.18
02 65 00 00-0076	EA	>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	4,077.11
02 65 00 00-0077	EA	>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	5,308.73
02 65 00 00-0078	EA	>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	6,370.47
02 65 00 00-0079	EA	>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	7,963.09

02 65 00 00-0080 Tank And Piping Removal (02 65)

Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.

02 65 00 00-0081 Removal And Disposal Of Piping (02 65 00 00-0080)

Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.

02 65 00 00-0082	LF	Up To 4", Removal And Disposal Of Piping	20.04
02 65 00 00-0083	LF	>4" To 8", Removal And Disposal Of Piping	26.73

02 65 00 00-0084 Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080)

Note: Excludes excavation or backfill.

02 65 00 00-0085	EA	Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	697.51
02 65 00 00-0086	EA	>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	846.97
02 65 00 00-0087	EA	>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	996.45
02 65 00 00-0088	EA	>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,245.57
02 65 00 00-0089	EA	>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,743.78
02 65 00 00-0090	EA	>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,192.18
02 65 00 00-0091	EA	>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,491.11
02 65 00 00-0092	EA	>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,989.33
02 65 00 00-0093	EA	>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,985.78
02 65 00 00-0094	EA	>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,778.07
02 65 00 00-0095	EA	>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	5,598.91
02 65 00 00-0096	EA	>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,550.25
02 65 00 00-0097	EA	>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	8,187.81

02 65 00 00-0098 Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080)

Note: Includes 1 lengthwise at every 4' on-center height wise.

02 65 00 00-0099	EA	>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	847.83
02 65 00 00-0100	EA	>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,581.08
02 65 00 00-0101	EA	>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,901.89
02 65 00 00-0102	EA	>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,119.57
02 65 00 00-0103	EA	>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,543.48
02 65 00 00-0104	EA	>10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,162.17
02 65 00 00-0105	EA	>15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,803.77
02 65 00 00-0106	EA	>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,754.71
02 65 00 00-0107	EA	>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,943.40
02 65 00 00-0108	EA	>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	7,429.24

02 65 00 00-0109 Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080)

Note: Includes disposal fee.

02 65 00 00-0110	EA	Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	312.11
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>4.68</i>
02 65 00 00-0111	EA	>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	423.77
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>5.92</i>
02 65 00 00-0112	EA	>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	666.86
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>8.88</i>
02 65 00 00-0113	EA	>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,037.87
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>10.35</i>
02 65 00 00-0114	EA	>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,831.60
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>18.24</i>
02 65 00 00-0115	EA	>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,890.77
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>19.72</i>
02 65 00 00-0116	EA	>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,989.39
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>22.19</i>
02 65 00 00-0117	EA	>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,888.14
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>29.58</i>
02 65 00 00-0118	EA	>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,957.98
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>44.38</i>
02 65 00 00-0119	EA	>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,633.38
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>49.31</i>
02 65 00 00-0120	EA	>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	5,734.68
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>59.17</i>
02 65 00 00-0121	EA	>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	8,037.55
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>71.00</i>
02 65 00 00-0122	EA	>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	9,710.96
		<i>For Each Additional Mile >15 Miles, Add</i>	<i>81.65</i>



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

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02 65 00 00-0123 Other Storage Tank Removals (02 65 00 00-0080)		
02 65 00 00-0124	GAL Removal Of Cement Lining.....	0.61
02 65 00 00-0125	GAL Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams.....	0.22
02 65 00 00-0126	GAL Install Epoxy For Interior Corrosion Protection	1.65
02 65 00 00-0127 Tank Closure Report (02 65 00 00-0080)		
Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128	EA Prepare Tank Closure Report.....	3,313.46
02 65 00 00-0129 Temporary Tanks (02 65)		
02 65 00 00-0130 Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131 Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132	MO 550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	937.13
02 65 00 00-0133	MO 630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	937.13
02 65 00 00-0134	MO 630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,874.25
02 65 00 00-0135	MO 4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,405.69
02 65 00 00-0136	MO 4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	3,279.95
02 65 00 00-0137	MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	2,342.82
02 65 00 00-0138	MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	6,068.30
02 65 00 00-0139	MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	7,272.33
02 65 00 00-0140	MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	12,281.09
02 65 00 00-0141 Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142	MO Secondary Containment Berm Monthly Rental	2,030.44

02 80 Facility Remediation (02)

02 81 Transportation and Disposal of Hazardous Materials (02 80)

02 81 00 00-0001 Hazardous Material Disposal (02 81)		
02 81 00 00-0002	EA RCRA (Direct Landfill) Drums	496.85
Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).		
02 81 00 00-0003	EA Stabilization (>5 ppm)	662.07
02 81 00 00-0004	TON Bulk Hazardous Material Landfill Cost	419.15

02 81 00 00-0005 Equipment Oil Drain And Disposal (02 81)		
02 81 00 00-0006	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	658.04
Note: Excludes Disposal Cost.		
02 81 00 00-0007	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	103.41
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0008	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	470.02
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0009	DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	846.04
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0010	CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	112.85
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		

02 82 Asbestos Remediation (02 80)

See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)		
Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002	HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	95.74
02 82 13 00-0003	EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	61.22
02 82 13 00-0004	EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	71.77
02 82 13 00-0005	EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	113.99
02 82 13 00-0006	EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	196.32
02 82 13 00-0007	EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	238.54
02 82 13 00-0008	EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	48.55
02 82 13 00-0009	EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	59.11
02 82 13 00-0010	EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	80.22
02 82 13 00-0011	EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	61.22
02 82 13 00-0012	EA Next Day Turnaround, (Air Point Counting) PLM Test.....	71.77
02 82 13 00-0013	EA Same Day Turnaround, (Air Point Counting) PLM Test.....	113.99
02 82 13 00-0014	EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	196.32

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0015	EA		Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	225.88	
02 82 13 00-0016	EA		Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	314.54	
02 82 16 Engineering Control of Asbestos Containing Materials (02 82)					
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)					
02 82 16 00-0002	SF		Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.64	
02 82 16 00-0003	SF		Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.25	
02 82 16 00-0004	SF		Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	2.44	
02 82 16 00-0005	SF		Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	2.65	
02 82 16 00-0006	SF		Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	8.27	
02 82 16 00-0007	SF		Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	9.38	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)					
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.					
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)					
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)					
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.					
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0004	SET		Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,211.16	
			<i>For Work In Restricted Working Space, Add</i>	357.98	
02 82 33 00-0005	LF		>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	41.58	
			<i>For Work In Restricted Working Space, Add</i>	12.20	
02 82 33 00-0006	LF		>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	31.41	
			<i>For Work In Restricted Working Space, Add</i>	9.15	
02 82 33 00-0007	LF		>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	23.78	
			<i>For Work In Restricted Working Space, Add</i>	6.86	
02 82 33 00-0008	LF		>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.06	
			<i>For Work In Restricted Working Space, Add</i>	5.15	
02 82 33 00-0009	LF		>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	15.82	
			<i>For Work In Restricted Working Space, Add</i>	4.48	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0011	SET		Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,229.06	
			<i>For Work In Restricted Working Space, Add</i>	357.98	
02 82 33 00-0012	LF		>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	48.58	
			<i>For Work In Restricted Working Space, Add</i>	14.04	
02 82 33 00-0013	LF		>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	36.88	
			<i>For Work In Restricted Working Space, Add</i>	10.53	
02 82 33 00-0014	LF		>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	28.10	
			<i>For Work In Restricted Working Space, Add</i>	7.89	
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	21.51	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.95	
			<i>For Work In Restricted Working Space, Add</i>	5.15	
02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0018	SET		Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,246.97	
			<i>For Work In Restricted Working Space, Add</i>	357.98	
02 82 33 00-0019	LF		>20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	64.76	
			<i>For Work In Restricted Working Space, Add</i>	18.71	
02 82 33 00-0020	LF		>250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	49.16	
			<i>For Work In Restricted Working Space, Add</i>	14.03	
02 82 33 00-0021	LF		>500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	37.48	
			<i>For Work In Restricted Working Space, Add</i>	10.53	
02 82 33 00-0022	LF		>2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	28.70	
			<i>For Work In Restricted Working Space, Add</i>	7.89	
02 82 33 00-0023	LF		>10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	25.27	
			<i>For Work In Restricted Working Space, Add</i>	6.86	
02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0025 SET Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	1,264.87 357.98	
02 82 33 00-0026 LF >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	89.05 25.73	
02 82 33 00-0027 LF >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	67.59 19.29	
02 82 33 00-0028 LF >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	51.52 14.47	
02 82 33 00-0029 LF >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	39.44 10.85	
02 82 33 00-0030 LF >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	34.75 9.44	
02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	771.35 229.79	
02 82 33 00-0033 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	129.45 38.30	
02 82 33 00-0034 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	51.35 14.87	
02 82 33 00-0035 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	38.95 11.15	
02 82 33 00-0036 LF >500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	29.66 8.36	
02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0039 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	1,202.21	
02 82 33 00-0040 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	49.52	
02 82 33 00-0041 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	40.89	
02 82 33 00-0042 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	32.86	
02 82 33 00-0043 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	26.85	
02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0045 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	1,197.74	
02 82 33 00-0046 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	43.52	
02 82 33 00-0047 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	34.88	
02 82 33 00-0048 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	26.85	
02 82 33 00-0049 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	20.85	
02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0051 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	1,196.24	
02 82 33 00-0052 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	38.60	
02 82 33 00-0053 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	29.96	
02 82 33 00-0054 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	21.93	
02 82 33 00-0055 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	15.92	
02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0037) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	1,204.45	
02 82 33 00-0058 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	41.13	
02 82 33 00-0059 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	32.49	
02 82 33 00-0060 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	24.47	
02 82 33 00-0061 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	18.47	
02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	199.33	
02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	1,204.45	
02 82 33 00-0067 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	49.25	
02 82 33 00-0068 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	37.04	
02 82 33 00-0069 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	27.90	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0070 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	21.04	
02 82 33 00-0071 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	1,200.72	
02 82 33 00-0073 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	20.68	
02 82 33 00-0074 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	15.72	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	11.74	
02 82 33 00-0076 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	8.76	
02 82 33 00-0077 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0078 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	1,205.20	
02 82 33 00-0079 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	17.20	
02 82 33 00-0080 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	8.43	
02 82 33 00-0081 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	5.79	
02 82 33 00-0082 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.98	
02 82 33 00-0083 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0084 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0085 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1,208.17	
02 82 33 00-0086 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	7.22	
02 82 33 00-0087 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.77	
02 82 33 00-0088 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.05	
02 82 33 00-0089 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.66	
02 82 33 00-0090 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0091 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	1,012.29	
02 82 33 00-0092 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	42.47	
02 82 33 00-0093 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	32.30	
02 82 33 00-0094 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	24.67	
02 82 33 00-0095 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	18.95	
02 82 33 00-0096 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.66	
02 82 33 00-0097 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.36	
02 82 33 00-0098 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0099 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1,218.55	
Note: Single or first of multiple layers.		
02 82 33 00-0100 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	6.51	
Note: Single or first of multiple layers.		
02 82 33 00-0101 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	5.23	
Note: Single or first of multiple layers.		
02 82 33 00-0102 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.22	
Note: Single or first of multiple layers.		
02 82 33 00-0103 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.20	
Note: Single or first of multiple layers.		
02 82 33 00-0104 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.44	
Note: Single or first of multiple layers.		
02 82 33 00-0105 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0106 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0105)		
02 82 33 00-0107 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	813.41	
For Work In Restricted Working Space, Add	238.65	
02 82 33 00-0108 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	80.89	
For Work In Restricted Working Space, Add	23.73	
02 82 33 00-0109 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	54.52	
For Work In Restricted Working Space, Add	15.82	
02 82 33 00-0110 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	41.40	
For Work In Restricted Working Space, Add	11.88	
02 82 33 00-0111 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	33.43	
For Work In Restricted Working Space, Add	9.49	
02 82 33 00-0112 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	28.69	
For Work In Restricted Working Space, Add	8.07	
02 82 33 00-0113 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	25.99	
For Work In Restricted Working Space, Add	7.26	
02 82 33 00-0114 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0115 30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0114)		
02 82 33 00-0116 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	405.81	
02 82 33 00-0117 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	151.25	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 82 33 00-0118	EA	>20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	136.93
02 82 33 00-0119		Grout, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. flue grout.			
02 82 33 00-0120	SET	Up To 10 LF, Grout, Asbestos Abatement And Disposal	398.00
02 82 33 00-0121	LF	>10 To 50 LF, Grout, Asbestos Abatement And Disposal	15.68
02 82 33 00-0122	LF	>50 To 100 LF, Grout, Asbestos Abatement And Disposal	10.80
02 82 33 00-0123	LF	>100 To 250 LF, Grout, Asbestos Abatement And Disposal	9.25
02 82 33 00-0124	LF	>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	7.95
02 82 33 00-0125	LF	>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	6.85
02 82 33 00-0126	LF	>2,500 LF, Grout, Asbestos Abatement And Disposal	5.88
02 82 33 00-0127		Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. rope, web cloth, flat.			
02 82 33 00-0128	SET	Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	398.12
02 82 33 00-0129	LF	>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	21.13
02 82 33 00-0130	LF	>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	15.86
02 82 33 00-0131	LF	>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	13.52
02 82 33 00-0132	LF	>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	12.17
02 82 33 00-0133	LF	>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	10.94
02 82 33 00-0134	LF	>2,500 LF, Gaskets, Asbestos Abatement And Disposal	10.41
02 82 33 00-0135		Caulking, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0136		Non-Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0135)	
02 82 33 00-0137	SET	Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	398.00
02 82 33 00-0138	LF	>10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	11.75
02 82 33 00-0139	LF	>50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	8.29
02 82 33 00-0140	LF	>100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	6.17
02 82 33 00-0141	LF	>250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	4.64
02 82 33 00-0142	LF	>1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.68
02 82 33 00-0143	LF	>2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.19
02 82 33 00-0144		Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0145	SET	Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	398.00
02 82 33 00-0146	LF	>10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	15.68
02 82 33 00-0147	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	10.80
02 82 33 00-0148	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal	9.25
02 82 33 00-0149	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal	7.95
02 82 33 00-0150	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal	6.85
02 82 33 00-0151		Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0152	SET	Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	829.88
02 82 33 00-0153	EA	>4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	79.77
02 82 33 00-0154	EA	>40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	56.05
02 82 33 00-0155	EA	>60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	44.24
02 82 33 00-0156	EA	>125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	37.07
02 82 33 00-0157	EA	>625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	32.80
02 82 33 00-0158	EA	>1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	30.37

02 83 Lead Remediation (02 80)

See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

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

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

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting.

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

02 83 19 13-0002	EA	Lead-Based Paint Remediation Minimum Show Up Charge	1,225.22
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.			

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

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

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 83 19 13-0004	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	89.77
02 83 19 13-0005	EA	X-Ray Fluorescence (XRF) Lead Testing	72.77
		Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0006	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	69.66
02 83 19 13-0007	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	105.55
02 83 19 13-0008	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	147.77
02 83 19 13-0009	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	27.44
02 83 19 13-0010	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	42.22
02 83 19 13-0011	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	52.78
02 83 19 13-0012	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	69.66
02 83 19 13-0013	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	105.55
02 83 19 13-0014	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	11.61
02 83 19 13-0015	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	15.83
02 83 19 13-0016	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	23.22
02 83 19 13-0017	EA	5 Day Turnaround Lead Air Samples And Lab Fee	11.61
02 83 19 13-0018	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	15.83
02 83 19 13-0019	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	23.22
02 83 19 13-0020	EA	5 Day Turnaround Lead Water Test and Lab Fee	42.22
02 83 19 13-0021	EA	24 Hour Turnaround Lead Water Test and Lab Fee	63.33
02 83 19 13-0022	EA	8 Hour Turnaround Lead Water Test and Lab Fee	84.44
02 83 19 13-0023	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	43.66
02 83 19 13-0024	EA	5 Day Turnaround Lead Soil Test and Lab Fee	87.33

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

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

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	34.50
		For 0.025" (25 mil) Application, Add	1.98
		For 0.03" (30 mil) Application, Add	3.12
02 83 19 13-0027	SF	Balustrades, Ormate, Chemical Stripping Of Lead Contaminated Material	51.12
		For 0.025" (25 mil) Application, Add	2.81
		For 0.03" (30 mil) Application, Add	4.37
02 83 19 13-0028	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	8.23
		For 0.025" (25 mil) Application, Add	0.61
		For 0.03" (30 mil) Application, Add	1.04
02 83 19 13-0029	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	30.81
		For 0.025" (25 mil) Application, Add	1.74
		For 0.03" (30 mil) Application, Add	2.74
02 83 19 13-0030	SF	HVAC Grilles, Ormate, Chemical Stripping Of Lead Contaminated Material	36.73
		For 0.025" (25 mil) Application, Add	2.04
		For 0.03" (30 mil) Application, Add	3.18
02 83 19 13-0031	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	23.83
		For 0.025" (25 mil) Application, Add	1.49
		For 0.03" (30 mil) Application, Add	2.42
		For 0.125" (125 mil) Application, Add	14.96
02 83 19 13-0032	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	10.69
		For 0.025" (25 mil) Application, Add	0.68
		For 0.03" (30 mil) Application, Add	1.12
		For 0.125" (125 mil) Application, Add	7.17
02 83 19 13-0033	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	19.11
		For 0.025" (25 mil) Application, Add	1.21
		For 0.03" (30 mil) Application, Add	1.96
		For 0.125" (125 mil) Application, Add	12.28
02 83 19 13-0034	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	26.18
		For 0.025" (25 mil) Application, Add	1.61
		For 0.03" (30 mil) Application, Add	2.60
		For 0.125" (125 mil) Application, Add	15.55
02 83 19 13-0035	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	46.91
		For 0.025" (25 mil) Application, Add	2.80
		For 0.03" (30 mil) Application, Add	4.47
		For 0.125" (125 mil) Application, Add	25.23
02 83 19 13-0036	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	14.01
		For 0.025" (25 mil) Application, Add	0.81
		For 0.03" (30 mil) Application, Add	1.28
		For 0.125" (125 mil) Application, Add	6.74
02 83 19 13-0037	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	278.25
		For 0.025" (25 mil) Application, Add	15.36
		For 0.03" (30 mil) Application, Add	23.95
02 83 19 13-0038	SF	Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	10.77
		For 0.025" (25 mil) Application, Add	0.74
		For 0.03" (30 mil) Application, Add	1.23
		For 0.125" (125 mil) Application, Add	8.69
02 83 19 13-0039	SF	Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	12.22
		For 0.025" (25 mil) Application, Add	0.81
		For 0.03" (30 mil) Application, Add	1.34
		For 0.125" (125 mil) Application, Add	9.06
02 83 19 13-0040	SF	Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	12.18
		For 0.025" (25 mil) Application, Add	0.81
		For 0.03" (30 mil) Application, Add	1.34
		For 0.125" (125 mil) Application, Add	9.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0041 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material	55.88	
For 0.025" (25 mil) Application, Add	3.19	
For 0.03" (30 mil) Application, Add	5.04	
For 0.125" (125 mil) Application, Add	25.97	
02 83 19 13-0042 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	9.73	
For 0.025" (25 mil) Application, Add	0.64	
For 0.03" (30 mil) Application, Add	1.05	
For 0.125" (125 mil) Application, Add	6.93	
02 83 19 13-0043 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	28.44	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.72	
For 0.03" (30 mil) Application, Add	2.77	
For 0.125" (125 mil) Application, Add	16.11	
02 83 19 13-0044 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	31.06	
For 0.025" (25 mil) Application, Add	1.80	
For 0.03" (30 mil) Application, Add	2.86	
For 0.125" (125 mil) Application, Add	15.27	
02 83 19 13-0045 Demolish Lead Contaminated Material <small>(02 83 19 13)</small>		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0046 SF Demolish Brick, Lead Contaminated Material	4.27	
02 83 19 13-0047 SF Demolish Concrete Block, Lead Contaminated Material	5.50	
02 83 19 13-0048 SF Demolish Up To 6" Concrete, Lead Contaminated Material	6.23	
02 83 19 13-0049 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.85	
02 83 19 13-0050 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	6.47	
02 83 19 13-0051 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material	7.08	
02 83 19 13-0052 SF Demolish Concrete, Lead Contaminated Material	14.10	
02 83 19 13-0053 LF Demolish Cabinets, Lead Contaminated Material	32.84	
02 83 19 13-0054 SF Demolish Grilles, Lead Contaminated Material	3.95	
02 83 19 13-0055 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	17.07	
02 83 19 13-0056 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	7.00	
02 83 19 13-0057 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	10.21	
02 83 19 13-0058 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	15.43	
02 83 19 13-0059 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	28.47	
02 83 19 13-0060 EA Demolish Radiators, Lead Contaminated Material	122.97	
02 83 19 13-0061 SF Demolish Siding, Lead Contaminated Material	1.91	
02 83 19 13-0062 SF Demolish Flat Steel Surfaces, Lead Contaminated Material	4.43	
02 83 19 13-0063 SF Demolish Steel Beams, Lead Contaminated Material	5.22	
02 83 19 13-0064 SF Demolish Trusses, Lead Contaminated Material	6.84	
02 83 19 13-0065 SF Demolish Metal Stair, Lead Contaminated Material	8.15	
02 83 19 13-0066 LF Demolish Single Metal Hand Rail, Lead Contaminated Material	5.99	
02 83 19 13-0067 LF Demolish Metal Railing And Posts, Lead Contaminated Material	9.77	
02 83 19 13-0068 SF Demolish Metal Picket Fence, Lead Contaminated Material	2.69	
02 83 19 13-0069 SF Demolish Plywood, Lead Contaminated Material	7.36	
02 83 19 13-0070 SF Demolish Planks (Various Sizes), Lead Contaminated Material	3.59	
02 83 19 13-0071 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	22.44	
02 83 19 13-0072 LF Demolish Metal Guard Rails, Lead Contaminated Material	13.47	
02 83 19 13-0073 Wet Sanding/Light Scraping Of Lead Contaminated Material <small>(02 83 19 13)</small>		
Note: Remove loose, flaking lead-based paint to prepare for painting.		
02 83 19 13-0074 SF Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.41	
02 83 19 13-0075 Lead Abatement Encapsulation <small>(02 83 19 13)</small>		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0076 SF Balustrades, Lead Abatement Encapsulation	6.24	
02 83 19 13-0077 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	4.02	
02 83 19 13-0078 SF Columns, Lead Abatement Encapsulation	4.85	
02 83 19 13-0079 SF Picket Fence (Brush), Lead Abatement Encapsulation	2.91	
02 83 19 13-0080 SF Wood Floors (Roller), Lead Abatement Encapsulation	2.44	
02 83 19 13-0081 SF Grilles, Vents, Lead Abatement Encapsulation	6.73	
02 83 19 13-0082 EA Hangers, Lead Abatement Encapsulation	52.86	
02 83 19 13-0083 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	3.78	
02 83 19 13-0084 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.49	
02 83 19 13-0085 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	8.51	
02 83 19 13-0086 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	12.56	
02 83 19 13-0087 SF Siding, Lead Abatement Encapsulation	3.47	
02 83 19 13-0088 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation	4.02	
02 83 19 13-0089 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation	5.25	
02 83 19 13-0090 SF Trusses, Lead Abatement Encapsulation	5.25	
02 83 33 Removal and Disposal of Material Containing Lead <small>(02 83)</small>		
02 83 33 13 Lead-Based Paint Removal and Disposal <small>(02 83 33)</small>		
02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead <small>(02 83 33 13)</small>		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.29	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.28	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.42	

02 86 Hazardous Waste Drum Handling (02 80)

02 86 00 00-0001			Hazardous Waste Packaging (02 86)		
02 86 00 00-0002			Overpacks (02 86 00 00-0001)		
02 86 00 00-0003			Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)		
02 86 00 00-0004	EA		110 Gallon, 30" Diameter X 41" High	594.79	
02 86 00 00-0005	EA		85 Gallon, 26" Diameter X 38" High.....	338.57	
02 86 00 00-0006	EA		83 Gallon, 26" Diameter X 36" High.....	326.77	
02 86 00 00-0007	EA		55 Gallon, DOT 17C, 18" Diameter X 34" High.....	204.44	
02 86 00 00-0008	EA		30 Gallon, DOT 17C, 18" Diameter X 28" High.....	161.05	
02 86 00 00-0009	EA		22 Gallon, 16" Diameter X 25" High.....	108.51	
02 86 00 00-0010	EA		15 Gallon, DOT 17C, 14" Diameter X 24" High.....	98.10	
02 86 00 00-0011	EA		10 Gallon, 13.8" Diameter X 15" High.....	86.45	
02 86 00 00-0012			Polyethylene Overpacks (02 86 00 00-0002)		
02 86 00 00-0013	EA		95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High	671.85	
02 86 00 00-0014	EA		20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High	124.16	
02 86 00 00-0015	EA		85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High	607.94	
02 86 00 00-0016			Composite Overpacks (02 86 00 00-0002)		
02 86 00 00-0017	EA		55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums	329.90	
02 86 00 00-0018	EA		55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums	452.71	
02 86 00 00-0019	EA		85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums	614.05	
02 86 00 00-0020			DOT E-9168 Exempt Packaging (02 86 00 00-0002)		
02 86 00 00-0021	EA		32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	63.58	
02 86 00 00-0022	EA		950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	67.08	
02 86 00 00-0023	EA		500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	65.58	
02 86 00 00-0024	EA		250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	32.47	
02 86 00 00-0025	EA		Can, Carton, Insert, Tape - Corrosive And Flammable - UPS	17.68	
02 86 00 00-0026	EA		16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	14.65	
02 86 00 00-0027	EA		32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	19.06	
02 86 00 00-0028			Steel Drums (02 86 00 00-0001)		
02 86 00 00-0029			UN Rated Steel Drums (02 86 00 00-0028)		
02 86 00 00-0030	EA		UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	245.27	
02 86 00 00-0031	EA		55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	1,380.00	
02 86 00 00-0032	EA		8 Gallon, 17C, Open, Steel Drum	110.77	
02 86 00 00-0033	EA		55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	1,113.58	
02 86 00 00-0034	EA		55 Gallon Reconditioned Steel 17h Drum (50+)	108.36	
02 86 00 00-0035	EA		55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	1,092.62	
02 86 00 00-0036	EA		55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,598.52	
02 86 00 00-0037	EA		55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	1,308.15	
02 86 00 00-0038	EA		UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	231.82	
02 86 00 00-0039	EA		UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	187.97	
02 86 00 00-0040	EA		55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9).....	1,445.85	
02 86 00 00-0041	EA		55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,568.59	
02 86 00 00-0042	EA		55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	984.86	
02 86 00 00-0043	EA		55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	1,412.93	
02 86 00 00-0044	EA		UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	148.14	
02 86 00 00-0045	EA		55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	1,418.91	
02 86 00 00-0046	EA		30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	927.98	
02 86 00 00-0047	EA		30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	892.06	
02 86 00 00-0048	EA		55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,508.72	
02 86 00 00-0049	EA		55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	1,278.22	
02 86 00 00-0050	EA		UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum	171.72	
02 86 00 00-0051	EA		55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+)	1,212.36	
02 86 00 00-0052	EA		UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum	145.96	
02 86 00 00-0053	EA		55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,472.80	
02 86 00 00-0054	EA		30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	853.14	
02 86 00 00-0055	EA		30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	823.21	
02 86 00 00-0056	EA		55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	1,445.85	
02 86 00 00-0057	EA		30 Gallon, 17E, Open, Steel Drum	105.89	
02 86 00 00-0058	EA		55 Gallon Reconditioned Steel 17h Drum (1-9)	158.93	
02 86 00 00-0059	EA		20 Gallon, 17C, Open, Steel Drum	148.82	
02 86 00 00-0060	EA		55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	1,302.17	
02 86 00 00-0061	EA		55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,559.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0062 EA 55 Gallon Reconditioned Steel 17h Drum (10-24)	140.87	
02 86 00 00-0063 EA 55 Gallon Reconditioned Steel 17h Drum (25-49)	122.81	
02 86 00 00-0064 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9)	1,140.52	
02 86 00 00-0065 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24)	1,529.67	
02 86 00 00-0066 EA 20 Gallon, 17E, Open, Steel Drum	100.17	
02 86 00 00-0067 Plastic Drums (02 86 00 00-0001)		
02 86 00 00-0068 Polyethylene Closed Head Drums (02 86 00 00-0067)		
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069 EA 55 Gallon Polyethylene Closed Head Drums	153.97	
02 86 00 00-0070 EA 35 Gallon Polyethylene Closed Head Drums	118.20	
02 86 00 00-0071 EA 30 Gallon Polyethylene Closed Head Drums	107.32	
02 86 00 00-0072 EA 20 Gallon Polyethylene Closed Head Drums	74.98	
02 86 00 00-0073 EA 15 Gallon Polyethylene Closed Head Drums	73.55	
02 86 00 00-0074 Polyethylene Open Head Drums (02 86 00 00-0067)		
Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075 EA 55 Gallon Polyethylene Open Head Drums	194.61	
02 86 00 00-0076 EA 35 Gallon Polyethylene Open Head Drums	143.10	
02 86 00 00-0077 EA 30 Gallon Polyethylene Open Head Drums	135.94	
02 86 00 00-0078 EA 20 Gallon Polyethylene Open Head Drums	100.17	
02 86 00 00-0079 EA 15 Gallon Polyethylene Open Head Drums	85.86	
02 86 00 00-0080 Fiber Drums (02 86 00 00-0001)		
02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)		
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082 EA 30 Gallon Fiber Drum DOT-21C (1-9)	117.91	
02 86 00 00-0083 EA 30 Gallon Fiber Drum DOT-21C (10-24)	110.47	
02 86 00 00-0084 EA 30 Gallon Fiber Drum DOT-21C (25-49)	100.74	
02 86 00 00-0085 EA 30 Gallon Fiber Drum DOT-21C (50+)	99.60	
02 86 00 00-0086 EA 55 Gallon Fiber Drum DOT-21C (1-9)	121.35	
02 86 00 00-0087 EA 55 Gallon Fiber Drum DOT-21C (10-24)	114.48	
02 86 00 00-0088 EA 55 Gallon Fiber Drum DOT-21C (25-49)	105.89	
02 86 00 00-0089 EA 55 Gallon Fiber Drum DOT-21C (50-99)	102.46	
02 86 00 00-0090 EA 55 Gallon Fiber Drum DOT-21C (100+)	88.72	
02 86 00 00-0091 EA 10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	75.56	
02 86 00 00-0092 EA 20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	82.42	
02 86 00 00-0093 EA 20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	96.16	
02 86 00 00-0094 Loading Hazardous Waste For Shipment (02 86 00 00-0001)		
02 86 00 00-0095 EA Load Drums On Disposal Truck	11.59	
02 86 00 00-0096 EA Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	1,228.66	
02 86 00 00-0097 Transport Drums To Landfill (02 86 00 00-0001)		
Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098 EA Transport Drum To Landfill	99.31	
Note: Includes transportation for up to 25 miles.		

02 87 Bio-Hazard Material Remediation (02 80)**02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

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

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

Note: Treat fittings as additional lf of insulation.

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

Note: Diameter is outer size of insulation.

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

Note: Excludes encased fittings.

02 87 13 33-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	804.46
02 87 13 33-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	31.22
02 87 13 33-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.51
02 87 13 33-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.75



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	13.42	
	02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.74	
	02 87 13 33-0010		>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)		
	02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	831.31	
	02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	37.17	
	02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	28.32	
	02 87 13 33-0014	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	21.69	
	02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	16.71	
	02 87 13 33-0016	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	14.77	
	02 87 13 33-0017		Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)		
	02 87 13 33-0018		Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)		
	02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	817.89	
	02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	18.13	
	02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	13.71	
	02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal.....	10.39	
	02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	8.07	
	02 87 13 33-0024		Surfacing Material, Mold Abatement And Disposal (02 87 13 33)		
			Note: e.g. fireproofing, acoustical plaster, etc.		
	02 87 13 33-0025		Stucco, Mold Abatement And Disposal (02 87 13 33-0024)		
			Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
	02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal.....	810.43	
	02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal.....	17.98	
	02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal.....	13.56	
	02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal.....	10.24	
	02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal.....	7.78	
	02 87 13 33-0031		Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)		
			Note: Exposed surface area, includes associated overspray.		
	02 87 13 33-0032	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal.....	817.89	
	02 87 13 33-0033	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal.....	24.82	
	02 87 13 33-0034	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal.....	18.74	
	02 87 13 33-0035	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal.....	14.17	
	02 87 13 33-0036	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal.....	10.74	
	02 87 13 33-0037		Siding, Mold Abatement And Disposal (02 87 13 33)		
	02 87 13 33-0038		Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0037)		
	02 87 13 33-0039	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	825.35	
	02 87 13 33-0040	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	7.40	
	02 87 13 33-0041	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	5.15	
	02 87 13 33-0042	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.48	
	02 87 13 33-0043	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.14	
	02 87 13 33-0044		Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
	02 87 13 33-0045		Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0044)		
	02 87 13 33-0046	SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	831.31	
	02 87 13 33-0047	CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal.....	29.30	
	02 87 13 33-0048	CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal.....	20.14	
	02 87 13 33-0049	CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal.....	15.55	
	02 87 13 33-0050	CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal.....	12.80	
	02 87 13 33-0051	CF	>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal.....	7.80	
	02 87 13 33-0052	CF	>10,000 CF, Contaminated Debris, Mold Abatement And Disposal.....	7.19	
	02 87 13 33-0053		Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
	02 87 13 33-0054		Caulking, Mold Abatement And Disposal (02 87 13 33-0053)		
	02 87 13 33-0055	SET	Up To 20 LF, Caulking, Mold Abatement And Disposal.....	199.37	
	02 87 13 33-0056	LF	>20 To 50 LF, Caulking, Mold Abatement And Disposal.....	4.00	
	02 87 13 33-0057	LF	>50 To 100 LF, Caulking, Mold Abatement And Disposal.....	2.86	
	02 87 13 33-0058	LF	>100 To 250 LF, Caulking, Mold Abatement And Disposal.....	2.17	
	02 87 13 33-0059	LF	>250 To 1,000 LF, Caulking, Mold Abatement And Disposal.....	1.61	
	02 87 13 33-0060	LF	>1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal.....	1.30	
	02 87 13 33-0061	LF	>2,500 LF, Caulking, Mold Abatement And Disposal.....	1.13	
	02 87 13 33-0062		Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0063 CSF Wipe Down Floors With Mild Bleach Solution	22.11	
<i>For >25 To 50, Deduct</i>	-2.21	
<i>For >50 To 200, Deduct</i>	-5.52	
<i>For >200, Deduct</i>	-8.84	
02 87 13 33-0064 CSF Wipe Down Walls With Mild Bleach Solution	26.01	
<i>For >25 To 50, Deduct</i>	-2.60	
<i>For >50 To 200, Deduct</i>	-6.50	
<i>For >200, Deduct</i>	-10.40	
02 87 13 33-0065 CSF Wipe Down Ceilings With Mild Bleach Solution	29.59	
<i>For >25 To 50, Deduct</i>	-2.96	
<i>For >50 To 200, Deduct</i>	-7.39	
<i>For >200, Deduct</i>	-11.83	
02 87 13 33-0066 CSF Wipe Down Countertops With Mild Bleach Solution	24.13	
<i>For >25 To 50, Deduct</i>	-2.41	
02 87 13 33-0067 CSF Wipe Down Other Surfaces With Mild Bleach Solution	30.61	
<i>For >25 To 50, Deduct</i>	-3.06	
<i>For >50 To 200, Deduct</i>	-7.65	
<i>For >200, Deduct</i>	-12.24	

02 87 16 Excrement Removal (02 87)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

02 87 16 13 Bird Excrement Removal (02 87 16)

02 87 16 13-0001 Bird Waste Removal (02 87 16 13)

Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.

02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	795.51	
<i>For Work In Restricted Working Space, Add</i>	238.65	
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	13.26	
<i>For Work In Restricted Working Space, Add</i>	3.98	
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	12.05	
<i>For Work In Restricted Working Space, Add</i>	3.62	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	10.96	
<i>For Work In Restricted Working Space, Add</i>	3.29	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	9.96	
<i>For Work In Restricted Working Space, Add</i>	2.99	

02 89 Hazmat Ancillary Tasks and Support (02 89)

02 89 00 00-0001 Barriers And Protection (02 89)

Note: Includes removal and disposal after use.

02 89 00 00-0002 Hazmat Containment Construction Plastic Sheeting (02 89 00 00-0001)

02 89 00 00-0003 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.48	
02 89 00 00-0004 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.63	
02 89 00 00-0005 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.85	
02 89 00 00-0006 SF 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, Hazmat Containment Construction	0.72	
02 89 00 00-0007 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.92	
02 89 00 00-0008 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.21	

02 89 00 00-0009 Decontamination Chambers (02 89)

Note: Includes removal after use.

02 89 00 00-0010 EA 3 Stage Portable Personnel Decontamination Wash Facility	1,038.06	
<i>Note: Includes connection to negative air system.</i>		
02 89 00 00-0011 EA 5 Stage Portable Personnel Decontamination Wash Facility	1,224.09	
<i>Note: Includes connection to negative air system.</i>		
02 89 00 00-0012 EA Portable Waste Decontamination Unit	638.60	
<i>Note: Includes connection to negative air system.</i>		
<i>For Dismantling And Relocation To A Different Area, Add</i>	414.78	

END OF SECTION 02

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 Concrete

03 01 Maintenance of Concrete ⁽⁰³⁾

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

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

03 01 30 51-0001	Abrasive Blasting ^(03 01 30 51)	
	Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.92
	For Up To 100, Add	3.20
	For >100 To 250, Add	0.80
	For >250 To 500, Add	0.40
	For >5,000 To 10,000, Deduct	-0.08
	For >10,000, Deduct	-0.16
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	5.53
	For Up To 100, Add	6.42
	For >100 To 250, Add	1.61
	For >250 To 500, Add	0.80
	For >5,000 To 10,000, Deduct	-0.16
	For >10,000, Deduct	-0.32

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

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71)	
	See CSI section 09 01 90 52-0002 for surface preparation as required.	
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)	
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002)	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	6.80
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	21.18
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non-Slip Aggregate).....	0.60
03 01 30 71-0007	Concrete Grinding ^(03 01 30 71-0002)	
03 01 30 71-0008	SF Grinding Cured, Warped, Or Rough Concrete Slabs	1.14
	Note: Up to 1/8" of material per pass	
03 01 30 71-0009	Verticals Or Overheads ^(03 01 30 71-0002)	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	10.19
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	29.20
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	32.81
03 01 30 71-0013	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	9.19
03 01 30 71-0014	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	16.24
	Note: Rapid Set - WunderFixx	
03 01 30 71-0015	Circular Piers ^(03 01 30 71-0002)	
03 01 30 71-0016	SF Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound	12.82
03 01 30 71-0017	SF Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound.....	22.04
	Note: Rapid Set - WunderFixx	
03 01 30 71-0018	Bridge Deck Treatment ^(03 01 30 71-0002)	
03 01 30 71-0019	SF Sweep Bridge Deck	0.02
03 01 30 71-0020	SF Clean Bridge Deck.....	0.02
03 01 30 71-0021	SF Treat Bridge Deck With Methacrylate Resin Sealant.....	2.27
03 01 30 71-0022	Concrete Finishes ^(03 01 30 71-0001)	
03 01 30 71-0023	Concrete Patching ^(03 01 30 71-0022)	
03 01 30 71-0024	Walls ^(03 01 30 71-0023)	
03 01 30 71-0025	BAG Sika Top 111 Plus.....	176.88
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.	
	Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	63.89
	For >10 To 25, Add	38.33
	For >25 To 50, Add	25.56
	For >50 To 75, Add	12.78

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0026	BAG		Sika Grout 212, 50 LB Bag Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	121.14	
			<i>For Up To 10, Add</i>	40.45	
			<i>For >10 To 25, Add</i>	24.27	
			<i>For >25 To 50, Add</i>	16.18	
			<i>For >50 To 75, Add</i>	8.09	
03 01 30 71-0027	EA		Sika Flex 1A, 10.3 Ounce Tube Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	41.55	
03 01 30 71-0028	BAG		Pea Gravel.....	31.29	
03 01 30 71-0029			Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0030			Non-Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0031			Surface Applied, Non-Structural Crack Repair For Concrete (03 01 30 71-0030) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0032	LF		Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.50	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0033	LF		>1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	8.51	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0034	LF		Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.64	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0035	LF		>1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	8.79	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0036	LF		Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.15	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0037	LF		>1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	9.80	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0038	LF		Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.52	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0039	LF		>1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	10.54	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0040			Pressure Injected, Non-Structural Crack Repair For Concrete (03 01 30 71-0030) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0041	LF		Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	29.89	
			<i>For Cracks Accessible From Both Sides, Add</i>	6.09	
03 01 30 71-0042			Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0043			Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0042) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0044	LF		Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.61	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0045	LF		>1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	10.73	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0046	LF		Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.42	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0047	LF		>1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	10.33	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0048	LF		Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.06	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.19	
03 01 30 71-0049	LF		>1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	13.64	
			<i>For V-Grooving Crack With Grinder, Add</i>	5.06	
03 01 30 71-0050			Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0042) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	25.93	
<i>For Cracks Accessible From Both Sides, Add</i>	6.09	
03 01 30 71-0052 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	25.73	
<i>For Cracks Accessible From Both Sides, Add</i>	6.09	
03 01 30 71-0053 Carbon Fiber Strengthening System (03 01 30 71-0001)		
Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	89.17	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0055 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	78.89	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0056 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	73.11	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0057 SF Carbon Fiber Strengthening System For Concrete Walls, Per Layer.....	69.90	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0058 SF Carbon Fiber Strengthening System For Concrete Slab, Per Layer	65.40	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)		
03 01 30 72-0001 Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.40	
03 05 Common Work Results For Concrete (03)		
03 05 13 Concrete Admixtures (03 05)		
03 05 13 00-0001 Concrete Admixtures (03 05 13)		
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	7.44	
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	5.15	
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	8.01	
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	16.03	
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	14.31	
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	28.62	
03 05 13 00-0008 CY 1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	6.18	
03 05 13 00-0009 CY 2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	12.05	
03 05 13 00-0010 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	8.59	
03 05 13 00-0011 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	17.17	
03 05 13 00-0012 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	5.72	
03 05 13 00-0013 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	13.74	
03 05 13 00-0014 CY 1 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	12.21	
03 05 13 00-0015 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	18.32	
03 05 13 00-0016 CY 25 LB/CY Steel Fibers, Concrete Admixture	46.40	
03 05 13 00-0017 CY 10% Microsilica (Silica Fume), Concrete Admixture	91.58	
03 05 13 00-0018 CY Corrosion Inhibiting Concrete Admixture	34.34	
03 05 13 00-0019 CY Winter Service Or Heat, Concrete Add	18.32	
03 05 13 00-0020 CY Chilled Water, Concrete Add	18.32	
03 05 13 00-0021 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	37.77	
03 05 13 00-0022 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	62.95	
03 05 13 00-0023 CY Premium Color (See Davis Colors Color Card), Concrete Admixture	120.86	
03 05 13 00-0024 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	167.86	
03 10 Concrete Forming and Accessories (03)		
03 11 Concrete Forming (03 10)		
03 11 13 Structural Cast-In-Place Concrete Forming (03 11)		
Note: Per square foot of formwork.		
03 11 13 00-0001 Wood Formwork (03 11 13)		
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)		
Note: For foundation work below or at grade.		
03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	8.79	
<i>For <1,000, Add</i>	1.66	
<i>For Foundations >8' Below Grade, Add</i>	1.62	
<i>For Curved Formwork, Add</i>	3.23	
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	10.49	
<i>For <1,000, Add</i>	2.00	
<i>For Foundations >8' Below Grade, Add</i>	1.95	
<i>For Curved Formwork, Add</i>	3.90	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0005	SF		Mat Foundation Wood Formwork.....	12.31	
			<i>For <1,000, Add</i>	2.36	
			<i>For Foundations >8' Below Grade, Add</i>	2.31	
			<i>For Curved Formwork, Add</i>	4.62	
03 11 13 00-0006	SF		Grade Beams Or Duct Bank Foundation Wood Formwork	10.27	
			<i>For <1,000, Add</i>	1.95	
			<i>For Foundations >8' Below Grade, Add</i>	1.90	
			<i>For Curved Formwork, Add</i>	3.80	
03 11 13 00-0007	SF		Below Grade Walls Foundation Wood Formwork	14.49	
			<i>Note: Excludes footing</i>		
			<i>For <1,000, Add</i>	2.75	
			<i>For Foundations >8' Below Grade, Add</i>	2.68	
			<i>For Curved Formwork, Add</i>	5.36	
03 11 13 00-0008			Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF		Up To 6" High Slab Edge and Block-Out Wood Formwork	6.84	
			<i>For Foundations >8' Below Grade, Add</i>	1.29	
			<i>For Curved Formwork, Add</i>	2.59	
			<i>For Up To 250, Add</i>	1.32	
03 11 13 00-0010	LF		>6" To 12" High Slab Edge and Block-Out Wood Formwork	9.73	
			<i>For Foundations >8' Below Grade, Add</i>	1.80	
			<i>For Curved Formwork, Add</i>	3.60	
			<i>For Up To 250, Add</i>	1.85	
03 11 13 00-0011	SF		>12" High Slab Edge and Block-Out Wood Formwork.....	12.62	
			<i>For Foundations >8' Below Grade, Add</i>	2.33	
			<i>For Curved Formwork, Add</i>	4.67	
			<i>For <1,000, Add</i>	2.40	
03 11 13 00-0012			Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF		Up To 8" Square Column Wood Formwork.....	52.44	
03 11 13 00-0014	LF		>8" To 12" Square Column Wood Formwork.....	76.56	
03 11 13 00-0015	LF		>12" To 18" Square Column Wood Formwork.....	96.62	
03 11 13 00-0016	LF		>18" To 24" Square Column Wood Formwork.....	139.15	
03 11 13 00-0017	LF		>24" To 36" Square Column Wood Formwork.....	199.93	
03 11 13 00-0018	LF		>36" To 48" Square Column Wood Formwork.....	264.74	
03 11 13 00-0019			Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF		Up To 8' High Above Grade Wall Wood Formwork.....	16.23	
			<i>For Curved Formwork, Add</i>	6.06	
			<i>For <1,000, Add</i>	3.10	
03 11 13 00-0021	SF		>8' High Above Grade Wall Wood Formwork	19.20	
			<i>For Curved Formwork, Add</i>	7.19	
			<i>For <1,000, Add</i>	3.68	
03 11 13 00-0022			Elevated Beam Wood Formwork (03 11 13 00-0001)		
			<i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.</i>		
03 11 13 00-0023	SF		Bottom of Elevated Beam Wood Formwork.....	21.40	
			<i>For Curved Formwork, Add</i>	7.92	
			<i>For <1,000, Add</i>	4.07	
03 11 13 00-0024	SF		Vertical Sides of Elevated Beam Wood Formwork	13.50	
			<i>For Curved Formwork, Add</i>	5.05	
			<i>For <1,000, Add</i>	2.58	
03 11 13 00-0025			Elevated Slab Wood Formwork (03 11 13 00-0001)		
			<i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.</i>		
03 11 13 00-0026	SF		Elevated Slab Wood Formwork	12.59	
			<i>For <1,000, Add</i>	2.32	
03 11 13 00-0027			Metal Framed Formwork (03 11 13)		
			<i>Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, tumbuckles, ties, and clips.</i>		
03 11 13 00-0028			Foundation Metal Framed Formwork (03 11 13 00-0027)		
			<i>Note: For foundation work below or at grade.</i>		
03 11 13 00-0029	SF		Continuous Footings Foundation Metal Framed Formwork	8.37	
			<i>For <1,000, Add</i>	1.54	
			<i>For Foundations >8' Below Grade, Add</i>	1.47	
			<i>For Curved Formwork, Add</i>	2.94	
03 11 13 00-0030	SF		Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	9.28	
			<i>For <1,000, Add</i>	1.72	
			<i>For Foundations >8' Below Grade, Add</i>	1.65	
			<i>For Curved Formwork, Add</i>	3.30	
03 11 13 00-0031	SF		Mat Foundation Metal Framed Formwork	10.39	
			<i>For <1,000, Add</i>	1.91	
			<i>For Foundations >8' Below Grade, Add</i>	1.82	
			<i>For Curved Formwork, Add</i>	3.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork 8.77 <i>For <1,000, Add</i> 1.61 <i>For Foundations >8' Below Grade, Add</i> 1.53 <i>For Curved Formwork, Add</i> 3.06	8.77	
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork 13.36 <i>Note: Excludes footing.</i> <i>For <1,000, Add</i> 2.49 <i>For Foundations >8' Below Grade, Add</i> 2.39 <i>For Curved Formwork, Add</i> 4.79	13.36	
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027) 5.97	5.97	
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork 1.16 <i>For Foundations >8' Below Grade, Add</i> 2.33 <i>For Curved Formwork, Add</i> 1.17 <i>For <250, Add</i> 1.17	1.16	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork 7.47 <i>For Foundations >8' Below Grade, Add</i> 1.45 <i>For Curved Formwork, Add</i> 2.89 <i>For <250, Add</i> 1.46	7.47	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork 8.28 <i>For Foundations >8' Below Grade, Add</i> 1.60 <i>For Curved Formwork, Add</i> 3.20 <i>For <1,000, Add</i> 1.62	8.28	
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039 Square Columns (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork 51.12	51.12	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork 61.77	61.77	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork 72.44	72.44	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork 86.57	86.57	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork 104.29	104.29	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork 125.23	125.23	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork 160.68	160.68	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork 198.19	198.19	
03 11 13 00-0048 Round Columns (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork 50.34	50.34	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork 55.99	55.99	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork 64.26	64.26	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork 74.89	74.89	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork 88.40	88.40	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork 101.24	101.24	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork 131.27	131.27	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork 171.41	171.41	
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork 8.21 <i>For Curved Formwork, Add</i> 2.73 <i>For <1,000, Add</i> 1.46	8.21	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork 10.03 <i>For Curved Formwork, Add</i> 3.29 <i>For <1,000, Add</i> 1.77	10.03	
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027) <i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.</i>		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork 8.20 <i>For Curved Formwork, Add</i> 2.55 <i>For <1,000, Add</i> 1.40	8.20	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork 6.12 <i>For Curved Formwork, Add</i> 2.00 <i>For <1,000, Add</i> 1.07	6.12	
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027) <i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.</i>		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork 11.17 <i>For <1,000, Add</i> 1.69	11.17	
03 11 13 00-0065 Fiber Tube Formwork (03 11 13) <i>Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.</i>		
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork 21.26 <i>For Plastic Lined, Add</i> 0.83 <i>For Columns >12' In Length, Add</i> 2.13	21.26	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0068	LF		8" Diameter Round Fiber Tube Formwork	22.46	
			<i>For Plastic Lined, Add</i>	0.99	
			<i>For Columns >12' In Length, Add</i>	2.25	
03 11 13 00-0069	LF		10" Diameter Round Fiber Tube Formwork	24.98	
			<i>For Plastic Lined, Add</i>	1.19	
			<i>For Columns >12' In Length, Add</i>	2.50	
03 11 13 00-0070	LF		12" Diameter Round Fiber Tube Formwork	30.93	
			<i>For Plastic Lined, Add</i>	2.11	
			<i>For Columns >12' In Length, Add</i>	3.09	
03 11 13 00-0071	LF		14" Diameter Round Fiber Tube Formwork	34.77	
			<i>For Plastic Lined, Add</i>	2.67	
			<i>For Columns >12' In Length, Add</i>	3.48	
03 11 13 00-0072	LF		16" Diameter Round Fiber Tube Formwork	37.89	
			<i>For Plastic Lined, Add</i>	3.33	
			<i>For Columns >12' In Length, Add</i>	3.79	
03 11 13 00-0073	LF		18" Diameter Round Fiber Tube Formwork	40.82	
			<i>For Plastic Lined, Add</i>	3.89	
			<i>For Columns >12' In Length, Add</i>	4.08	
03 11 13 00-0074	LF		20" Diameter Round Fiber Tube Formwork	46.51	
			<i>For Plastic Lined, Add</i>	5.29	
			<i>For Columns >12' In Length, Add</i>	4.65	
03 11 13 00-0075	LF		22" Diameter Round Fiber Tube Formwork	48.69	
			<i>For Plastic Lined, Add</i>	5.51	
			<i>For Columns >12' In Length, Add</i>	4.87	
03 11 13 00-0076	LF		24" Diameter Round Fiber Tube Formwork	51.14	
			<i>For Plastic Lined, Add</i>	5.81	
			<i>For Columns >12' In Length, Add</i>	5.11	
03 11 13 00-0077	LF		26" Diameter Round Fiber Tube Formwork	53.25	
			<i>For Plastic Lined, Add</i>	6.27	
			<i>For Columns >12' In Length, Add</i>	5.33	
03 11 13 00-0078	LF		28" Diameter Round Fiber Tube Formwork	55.35	
			<i>For Plastic Lined, Add</i>	6.73	
			<i>For Columns >12' In Length, Add</i>	5.54	
03 11 13 00-0079	LF		30" Diameter Round Fiber Tube Formwork	57.47	
			<i>For Plastic Lined, Add</i>	7.19	
			<i>For Columns >12' In Length, Add</i>	5.75	
03 11 13 00-0080	LF		36" Diameter Round Fiber Tube Formwork	66.41	
			<i>For Plastic Lined, Add</i>	9.25	
			<i>For Columns >12' In Length, Add</i>	6.64	
03 11 13 00-0081	LF		42" Diameter Round Fiber Tube Formwork	104.68	
			<i>For Plastic Lined, Add</i>	20.28	
			<i>For Columns >12' In Length, Add</i>	10.47	
03 11 13 00-0082	LF		48" Diameter Round Fiber Tube Formwork	127.55	
			<i>For Plastic Lined, Add</i>	26.69	
			<i>For Columns >12' In Length, Add</i>	12.76	
03 11 13 00-0083	LF		54" Diameter Round Fiber Tube Formwork	230.14	
			<i>For Plastic Lined, Add</i>	56.74	
			<i>For Columns >12' In Length, Add</i>	23.01	
03 11 13 00-0084	LF		60" Diameter Round Fiber Tube Formwork	256.31	
			<i>For Plastic Lined, Add</i>	64.04	
			<i>For Columns >12' In Length, Add</i>	25.63	
03 11 13 00-0085			Accessories For Formwork (03 11 13)		
03 11 13 00-0086			Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087	LF		2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.52	
03 11 13 00-0088			Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089	LF		1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.66	
03 11 13 00-0090	LF		3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.07	
03 11 13 00-0091	LF		1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.55	
03 11 13 00-0092			Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093	LF		24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	13.59	
03 11 13 00-0094			Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095	EA		2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	17.47	
03 11 13 00-0096	EA		4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	22.16	
03 11 13 00-0097	EA		6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	26.90	
03 11 13 00-0098	EA		8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	32.44	
03 11 13 00-0099	EA		12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	42.36	
03 11 13 00-0100	EA		18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	108.02	
03 11 16			Architectural Cast-In-Place Concrete Forming (03 11 16)		
03 11 16 13			Concrete Form Liners (03 11 16 13)		
03 11 16 13-0001			Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002	SF		Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	6.12	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	8.23	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	10.82	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork	20.62	
For Curved Formwork, Add	8.01	
For <1,000, Add	4.04	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork	41.25	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	15.69	
For <1,000, Add	7.98	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork	17.44	
For Curved Formwork, Add	6.60	
For <1,000, Add	3.36	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork	32.32	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	12.24	
For <1,000, Add	6.24	
03 15 Concrete Accessories (03 10)		
03 15 13 Waterstops (03 15)		
03 15 13 13 Non-Expanding Waterstops (03 15 13)		
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)		
03 15 13 13-0002 LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.30	
03 15 13 13-0003 LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	13.01	
03 15 13 13-0004 LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	16.43	
03 15 13 13-0005 LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	18.40	
03 15 13 13-0006 LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	30.90	
03 15 13 13-0007 LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.20	
03 15 13 13-0008 LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	17.23	
03 15 13 13-0009 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	34.35	
03 15 13 13-0010 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	25.76	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)		
03 15 13 13-0012 LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	10.69	
03 15 13 13-0013 LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	12.12	
03 15 13 13-0014 LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.78	
03 15 13 13-0015 LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	14.28	
03 15 13 13-0016 LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	12.33	
03 15 13 13-0017 LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	15.36	
03 15 13 16 Expanding Waterstops (03 15 13)		
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)		
03 15 13 16-0002 LF 3/4" x 3/8" Bentonite Waterstop	10.62	
03 15 13 16-0003 LF 1-1/4" x 1/2" Bentonite Waterstop	17.28	
03 15 13 16-0004 LF 1" x 3/4" Bentonite Waterstop	19.67	
03 15 13 16-0005 LF 1" x 1" Bentonite Waterstop	22.80	
03 15 16 Concrete Construction Joints (03 15)		
03 15 16 00-0001 Poured Expansion Joint (03 15 16)		
03 15 16 00-0002 LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured	3.27	0.90
For Installation In Walls, Add	1.50	
03 15 16 00-0003 LF 1" x 2" Plain Asphalt Expansion Joint, Poured	7.38	0.90
For Installation In Walls, Add	1.69	
03 15 16 00-0004 LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	3.12	0.90
For Installation In Walls, Add	1.50	
03 15 16 00-0005 LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	6.76	0.90
For Installation In Walls, Add	1.69	
03 15 16 00-0006 LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	4.33	0.90
For Installation In Walls, Add	1.69	
03 15 16 00-0007 LF 1" x 2" Polyurethane Expansion Joint, Poured, 2 Parts	7.80	0.90
For Installation In Walls, Add	2.74	
03 15 16 00-0008 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.64	0.90
For Installation In Walls, Add	1.50	
03 15 16 00-0009 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.49	0.90
For Installation In Walls, Add	1.50	
03 15 16 00-0010 LF 1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	11.78	0.90
For Installation In Walls, Add	1.69	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0011			Premolded Expansion Joints <small>(03 15 16)</small>		
03 15 16 00-0012			Asphalt Saturated Fiber, Premolded Expansion Joints <small>(03 15 16 00-0011)</small>		
03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.77	1.27
03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.18	1.34
03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.43	1.40
03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.70	1.46
03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.03	1.27
03 15 16 00-0018	LF		3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.39	1.34
03 15 16 00-0019	LF		3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.81	1.40
03 15 16 00-0020	LF		3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.42	1.46
03 15 16 00-0021	LF		1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.74	1.21
03 15 16 00-0022	LF		1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.99	1.27
03 15 16 00-0023	LF		1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.28	1.34
03 15 16 00-0024	LF		1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.53	1.40
03 15 16 00-0025	LF		1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.84	1.46
03 15 16 00-0026	LF		1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.27	1.53
03 15 16 00-0027	LF		1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	4.60	1.59
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	5.18	1.65
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.31	1.34
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.79	1.40
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.66	1.53
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint	8.11	2.11
03 15 16 00-0033			Cork, Premolded Expansion Joints <small>(03 15 16 00-0011)</small>		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint	4.78	1.34
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint	5.37	1.46
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint	5.84	1.53
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint	8.23	1.59
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint	8.76	1.65
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint	9.66	2.11
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint	11.22	2.11
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint	11.94	2.11
03 15 16 00-0042			Flexible Polyethylene Foam, Premolded Expansion Joints <small>(03 15 16 00-0011)</small>		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.01	1.34
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.13	1.40
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.31	1.46
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.86	1.53
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.10	1.34
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.23	1.40
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.37	1.46
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.71	1.53
03 15 16 00-0051			Zip Strip, Premolded Expansion Joints <small>(03 15 16 00-0011)</small>		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	3.04	1.34
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint	3.32	1.40
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	3.70	1.53
03 15 16 00-0055			Sponge Rubber, Premolded Expansion Joints <small>(03 15 16 00-0011)</small>		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.65	1.27
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.58	1.27
03 15 16 00-0058			Asphalt Felt Control Joints Or Bond Breaker <small>(03 15 16)</small>		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.43	0.96
			>1,250, Deduct	-0.07	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.35	0.96
			>1,250, Deduct	-0.07	
03 15 16 00-0061			Keyed Cold Expansion And Control Joints <small>(03 15 16)</small>		
03 15 16 00-0062			24 Gauge Galvanized Steel With Stakes <small>(03 15 16 00-0061)</small>		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	7.14	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	7.25	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	7.50	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	7.93	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	9.68	
03 15 19			Cast-In Concrete Anchors <small>(03 15)</small>		
03 15 19 00-0001			Cast In Place Anchors <small>(03 15 19)</small>		
			Note: For cast in place installations. Includes nut and washer.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0002			J-Type Anchor Bolts <small>(03 15 19 00-0001)</small> See CSI section 03 11 13 00-0002 for template.		
	03 15 19 00-0003			1/2" And 5/8" Diameter <small>(03 15 19 00-0002)</small>		
	03 15 19 00-0004	EA		1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 14.20 <i>For Galvanized, Add</i> 3.47 <i>For Stainless Steel, Add</i> 24.29 <i>For >10 To 50, Deduct</i> -0.36 <i>For >50 To 100, Deduct</i> -0.90 <i>For >100, Deduct</i> -1.80		
	03 15 19 00-0005	EA		1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 16.65 <i>For Galvanized, Add</i> 4.42 <i>For Stainless Steel, Add</i> 30.94 <i>For >10 To 50, Deduct</i> -0.39 <i>For >50 To 100, Deduct</i> -1.00 <i>For >100, Deduct</i> -2.00		
	03 15 19 00-0006	EA		1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 20.64 <i>For Galvanized, Add</i> 6.09 <i>For Stainless Steel, Add</i> 42.63 <i>For >10 To 50, Deduct</i> -0.42 <i>For >50 To 100, Deduct</i> -1.15 <i>For >100, Deduct</i> -2.30		
	03 15 19 00-0007	EA		5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 24.37 <i>For Galvanized, Add</i> 7.96 <i>For Stainless Steel, Add</i> 55.69 <i>For >10 To 50, Deduct</i> -0.42 <i>For >50 To 100, Deduct</i> -1.24 <i>For >100, Deduct</i> -2.49		
	03 15 19 00-0008	EA		5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 30.47 <i>For Galvanized, Add</i> 10.62 <i>For Stainless Steel, Add</i> 74.34 <i>For >10 To 50, Deduct</i> -0.46 <i>For >50 To 100, Deduct</i> -1.45 <i>For >100, Deduct</i> -2.91		
	03 15 19 00-0009	EA		5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 34.42 <i>For Galvanized, Add</i> 12.14 <i>For Stainless Steel, Add</i> 84.95 <i>For >10 To 50, Deduct</i> -0.51 <i>For >50 To 100, Deduct</i> -1.62 <i>For >100, Deduct</i> -3.24		
	03 15 19 00-0010			3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
	03 15 19 00-0011	EA		3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 34.25 <i>For Galvanized, Add</i> 12.05 <i>For Stainless Steel, Add</i> 84.35 <i>For >10 To 50, Deduct</i> -0.51 <i>For >50 To 100, Deduct</i> -1.62 <i>For >100, Deduct</i> -3.24		
	03 15 19 00-0012	EA		3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 39.37 <i>For Galvanized, Add</i> 14.05 <i>For Stainless Steel, Add</i> 98.32 <i>For >10 To 50, Deduct</i> -0.56 <i>For >50 To 100, Deduct</i> -1.83 <i>For >100, Deduct</i> -3.66		
	03 15 19 00-0013	EA		3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 48.67 <i>For Galvanized, Add</i> 17.99 <i>For Stainless Steel, Add</i> 125.93 <i>For >10 To 50, Deduct</i> -0.63 <i>For >50 To 100, Deduct</i> -2.17 <i>For >100, Deduct</i> -4.34		
	03 15 19 00-0014	EA		3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 59.56 <i>For Galvanized, Add</i> 22.67 <i>For Stainless Steel, Add</i> 158.69 <i>For >10 To 50, Deduct</i> -0.71 <i>For >50 To 100, Deduct</i> -2.56 <i>For >100, Deduct</i> -5.11		
	03 15 19 00-0015	EA		7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 45.63 <i>For Galvanized, Add</i> 16.47 <i>For Stainless Steel, Add</i> 115.29 <i>For >10 To 50, Deduct</i> -0.63 <i>For >50 To 100, Deduct</i> -2.09 <i>For >100, Deduct</i> -4.19		
	03 15 19 00-0016	EA		7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 53.94 <i>For Galvanized, Add</i> 19.72 <i>For Stainless Steel, Add</i> 138.04 <i>For >10 To 50, Deduct</i> -0.73 <i>For >50 To 100, Deduct</i> -2.44 <i>For >100, Deduct</i> -4.87		
	03 15 19 00-0017	EA		7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 69.50 <i>For Galvanized, Add</i> 26.29 <i>For Stainless Steel, Add</i> 184.03 <i>For >10 To 50, Deduct</i> -0.85 <i>For >50 To 100, Deduct</i> -3.01 <i>For >100, Deduct</i> -6.01		

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 15 19 00-0018	1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019	EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	57.11	
	For Galvanized, Add	21.31	
	For Stainless Steel, Add	149.14	
	For >10 To 50, Deduct	-0.73	
	For >50 To 100, Deduct	-2.52	
	For >100, Deduct	-5.03	
03 15 19 00-0020	EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	68.20	
	For Galvanized, Add	25.64	
	For Stainless Steel, Add	179.48	
	For >10 To 50, Deduct	-0.85	
	For >50 To 100, Deduct	-2.97	
	For >100, Deduct	-5.95	
03 15 19 00-0021	EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	84.58	
	For Galvanized, Add	32.14	
	For Stainless Steel, Add	224.98	
	For >10 To 50, Deduct	-1.02	
	For >50 To 100, Deduct	-3.64	
	For >100, Deduct	-7.27	
03 15 19 00-0022	EA 1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	103.92	
	For Galvanized, Add	39.27	
	For Stainless Steel, Add	274.89	
	For >10 To 50, Deduct	-1.27	
	For >50 To 100, Deduct	-4.50	
	For >100, Deduct	-9.00	
03 15 19 00-0023	EA 1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	69.19	
	For Galvanized, Add	26.64	
	For Stainless Steel, Add	186.45	
	For >10 To 50, Deduct	-0.80	
	For >50 To 100, Deduct	-2.92	
	For >100, Deduct	-5.85	
03 15 19 00-0024	EA 1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	82.68	
	For Galvanized, Add	32.06	
	For Stainless Steel, Add	224.39	
	For >10 To 50, Deduct	-0.93	
	For >50 To 100, Deduct	-3.46	
	For >100, Deduct	-6.92	
03 15 19 00-0025	EA 1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	102.65	
	For Galvanized, Add	40.18	
	For Stainless Steel, Add	281.26	
	For >10 To 50, Deduct	-1.11	
	For >50 To 100, Deduct	-4.24	
	For >100, Deduct	-8.48	
03 15 19 00-0026	EA 1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	126.04	
	For Galvanized, Add	49.09	
	For Stainless Steel, Add	343.63	
	For >10 To 50, Deduct	-1.39	
	For >50 To 100, Deduct	-5.24	
	For >100, Deduct	-10.48	
03 15 19 00-0027	1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA 1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	84.22	
	For Galvanized, Add	33.29	
	For Stainless Steel, Add	233.03	
	For >10 To 50, Deduct	-0.88	
	For >50 To 100, Deduct	-3.43	
	For >100, Deduct	-6.86	
03 15 19 00-0029	EA 1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	100.72	
	For Galvanized, Add	40.08	
	For Stainless Steel, Add	280.53	
	For >10 To 50, Deduct	-1.03	
	For >50 To 100, Deduct	-4.06	
	For >100, Deduct	-8.12	
03 15 19 00-0030	EA 1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	125.17	
	For Galvanized, Add	50.24	
	For Stainless Steel, Add	351.68	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-4.98	
	For >100, Deduct	-9.96	
03 15 19 00-0031	EA 1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	153.56	
	For Galvanized, Add	61.36	
	For Stainless Steel, Add	429.49	
	For >10 To 50, Deduct	-1.54	
	For >50 To 100, Deduct	-6.15	
	For >100, Deduct	-12.31	
03 15 19 00-0032	EA 1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	103.00	
	For Galvanized, Add	41.61	
	For Stainless Steel, Add	291.27	
	For >10 To 50, Deduct	-0.99	
	For >50 To 100, Deduct	-4.06	
	For >100, Deduct	-8.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0033 EA 1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	123.24	
For Galvanized, Add	50.09	
For Stainless Steel, Add	350.60	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-4.81	
For >100, Deduct	-9.62	
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	153.31	
For Galvanized, Add	62.81	
For Stainless Steel, Add	439.67	
For >10 To 50, Deduct	-1.38	
For >50 To 100, Deduct	-5.91	
For >100, Deduct	-11.82	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	188.00	
For Galvanized, Add	76.70	
For Stainless Steel, Add	536.90	
For >10 To 50, Deduct	-1.73	
For >50 To 100, Deduct	-7.30	
For >100, Deduct	-14.59	
03 15 19 00-0036 L-Type Anchor Bolts <small>(03 15 19 00-0001)</small>		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037 3/4" And 7/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.70	
For Galvanized, Add	9.21	
For Stainless Steel, Add	64.47	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.59	
For >100, Deduct	-3.18	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.45	
For Galvanized, Add	11.38	
For Stainless Steel, Add	79.66	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.68	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.59	
For Galvanized, Add	13.05	
For Stainless Steel, Add	91.32	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-2.10	
For >100, Deduct	-4.20	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.01	
For Galvanized, Add	13.55	
For Stainless Steel, Add	94.82	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.74	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.74	
For Galvanized, Add	14.22	
For Stainless Steel, Add	99.54	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.48	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.53	
For Galvanized, Add	11.42	
For Stainless Steel, Add	79.94	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.68	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.11	
For Galvanized, Add	13.31	
For Stainless Steel, Add	93.14	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-2.12	
For >100, Deduct	-4.23	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.44	
For Galvanized, Add	15.26	
For Stainless Steel, Add	106.82	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.46	
For >100, Deduct	-4.91	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	51.99	
For Galvanized, Add	15.85	
For Stainless Steel, Add	110.92	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.82	
For >100, Deduct	-5.64	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	58.67	
For Galvanized, Add	16.65	
For Stainless Steel, Add	116.52	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-3.37	
For >100, Deduct	-6.74	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0048			1" And 1-1/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.80	
			<i>For Galvanized, Add</i>	14.65	
			<i>For Stainless Steel, Add</i>	102.55	
			<i>For >10 To 50, Deduct</i>	-0.73	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100, Deduct</i>	-4.37	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	49.86	
			<i>For Galvanized, Add</i>	16.47	
			<i>For Stainless Steel, Add</i>	115.29	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.52	
			<i>For >100, Deduct</i>	-5.03	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.14	
			<i>For Galvanized, Add</i>	18.42	
			<i>For Stainless Steel, Add</i>	128.94	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-2.95	
			<i>For >100, Deduct</i>	-5.90	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.65	
			<i>For Galvanized, Add</i>	19.29	
			<i>For Stainless Steel, Add</i>	135.03	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.34	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.78	
			<i>For Galvanized, Add</i>	20.20	
			<i>For Stainless Steel, Add</i>	141.40	
			<i>For >10 To 50, Deduct</i>	-1.27	
			<i>For >50 To 100, Deduct</i>	-3.55	
			<i>For >100, Deduct</i>	-7.10	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	75.00	
			<i>For Galvanized, Add</i>	23.41	
			<i>For Stainless Steel, Add</i>	163.84	
			<i>For >10 To 50, Deduct</i>	-1.41	
			<i>For >50 To 100, Deduct</i>	-3.99	
			<i>For >100, Deduct</i>	-7.98	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.63	
			<i>For Galvanized, Add</i>	27.40	
			<i>For Stainless Steel, Add</i>	191.77	
			<i>For >10 To 50, Deduct</i>	-1.69	
			<i>For >50 To 100, Deduct</i>	-4.75	
			<i>For >100, Deduct</i>	-9.51	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	55.45	
			<i>For Galvanized, Add</i>	19.27	
			<i>For Stainless Steel, Add</i>	134.86	
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.66	
			<i>For >100, Deduct</i>	-5.31	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	63.43	
			<i>For Galvanized, Add</i>	21.57	
			<i>For Stainless Steel, Add</i>	150.96	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-3.11	
			<i>For >100, Deduct</i>	-6.22	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	67.19	
			<i>For Galvanized, Add</i>	22.56	
			<i>For Stainless Steel, Add</i>	157.92	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.67	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.90	
			<i>For Galvanized, Add</i>	23.30	
			<i>For Stainless Steel, Add</i>	163.10	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-3.20	
			<i>For >100, Deduct</i>	-6.39	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	79.91	
			<i>For Galvanized, Add</i>	27.27	
			<i>For Stainless Steel, Add</i>	190.86	
			<i>For >10 To 50, Deduct</i>	-1.27	
			<i>For >50 To 100, Deduct</i>	-3.90	
			<i>For >100, Deduct</i>	-7.80	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.48	
			<i>For Galvanized, Add</i>	30.89	
			<i>For Stainless Steel, Add</i>	216.20	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-4.22	
			<i>For >100, Deduct</i>	-8.43	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063	EA			1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	97.93	
				<i>For Galvanized, Add</i>	34.87	
				<i>For Stainless Steel, Add</i>	244.09	
				<i>For >10 To 50, Deduct</i>	-1.41	
				<i>For >50 To 100, Deduct</i>	-4.56	
				<i>For >100, Deduct</i>	-9.13	
03 15 19 00-0064	EA			1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.59	
				<i>For Galvanized, Add</i>	37.93	
				<i>For Stainless Steel, Add</i>	265.51	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-5.07	
				<i>For >100, Deduct</i>	-10.14	
03 15 19 00-0065	EA			1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.49	
				<i>For Galvanized, Add</i>	40.62	
				<i>For Stainless Steel, Add</i>	284.31	
				<i>For >10 To 50, Deduct</i>	-1.81	
				<i>For >50 To 100, Deduct</i>	-5.66	
				<i>For >100, Deduct</i>	-11.31	
03 15 19 00-0066	EA			1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	129.25	
				<i>For Galvanized, Add</i>	43.48	
				<i>For Stainless Steel, Add</i>	304.33	
				<i>For >10 To 50, Deduct</i>	-2.12	
				<i>For >50 To 100, Deduct</i>	-6.40	
				<i>For >100, Deduct</i>	-12.81	
03 15 19 00-0067	EA			1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.90	
				<i>For Galvanized, Add</i>	48.07	
				<i>For Stainless Steel, Add</i>	336.49	
				<i>For >10 To 50, Deduct</i>	-2.54	
				<i>For >50 To 100, Deduct</i>	-7.48	
				<i>For >100, Deduct</i>	-14.96	
03 15 19 00-0068	EA			1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	78.56	
				<i>For Galvanized, Add</i>	29.13	
				<i>For Stainless Steel, Add</i>	203.91	
				<i>For >10 To 50, Deduct</i>	-1.02	
				<i>For >50 To 100, Deduct</i>	-3.49	
				<i>For >100, Deduct</i>	-6.97	
03 15 19 00-0069	EA			1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	93.56	
				<i>For Galvanized, Add</i>	34.09	
				<i>For Stainless Steel, Add</i>	238.63	
				<i>For >10 To 50, Deduct</i>	-1.27	
				<i>For >50 To 100, Deduct</i>	-4.24	
				<i>For >100, Deduct</i>	-8.49	
03 15 19 00-0070	EA			1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.91	
				<i>For Galvanized, Add</i>	38.60	
				<i>For Stainless Steel, Add</i>	270.20	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-4.60	
				<i>For >100, Deduct</i>	-9.20	
03 15 19 00-0071	EA			1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	115.36	
				<i>For Galvanized, Add</i>	43.59	
				<i>For Stainless Steel, Add</i>	305.10	
				<i>For >10 To 50, Deduct</i>	-1.41	
				<i>For >50 To 100, Deduct</i>	-5.00	
				<i>For >100, Deduct</i>	-10.00	
03 15 19 00-0072	EA			1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.57	
				<i>For Galvanized, Add</i>	47.42	
				<i>For Stainless Steel, Add</i>	331.94	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-5.54	
				<i>For >100, Deduct</i>	-11.09	
03 15 19 00-0073	EA			1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	137.82	
				<i>For Galvanized, Add</i>	50.78	
				<i>For Stainless Steel, Add</i>	355.46	
				<i>For >10 To 50, Deduct</i>	-1.81	
				<i>For >50 To 100, Deduct</i>	-6.17	
				<i>For >100, Deduct</i>	-12.33	
03 15 19 00-0074	EA			1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.88	
				<i>For Galvanized, Add</i>	54.79	
				<i>For Stainless Steel, Add</i>	383.53	
				<i>For >10 To 50, Deduct</i>	-2.12	
				<i>For >50 To 100, Deduct</i>	-6.97	
				<i>For >100, Deduct</i>	-13.94	
03 15 19 00-0075	EA			1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	170.96	
				<i>For Galvanized, Add</i>	60.10	
				<i>For Stainless Steel, Add</i>	420.70	
				<i>For >10 To 50, Deduct</i>	-2.54	
				<i>For >50 To 100, Deduct</i>	-8.08	
				<i>For >100, Deduct</i>	-16.16	

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

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
03 15 19 00-0077	EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.82	
	<i>For Galvanized, Add</i>	40.38	
	<i>For Stainless Steel, Add</i>	282.63	
	<i>For >10 To 50, Deduct</i>	-1.15	
	<i>For >50 To 100, Deduct</i>	-4.33	
	<i>For >100, Deduct</i>	-8.65	
03 15 19 00-0078	EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	111.41	
	<i>For Galvanized, Add</i>	42.35	
	<i>For Stainless Steel, Add</i>	296.45	
	<i>For >10 To 50, Deduct</i>	-1.34	
	<i>For >50 To 100, Deduct</i>	-4.79	
	<i>For >100, Deduct</i>	-9.58	
03 15 19 00-0079	EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	123.05	
	<i>For Galvanized, Add</i>	46.60	
	<i>For Stainless Steel, Add</i>	326.17	
	<i>For >10 To 50, Deduct</i>	-1.49	
	<i>For >50 To 100, Deduct</i>	-5.32	
	<i>For >100, Deduct</i>	-10.63	
03 15 19 00-0080	EA 1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	133.55	
	<i>For Galvanized, Add</i>	50.91	
	<i>For Stainless Steel, Add</i>	356.37	
	<i>For >10 To 50, Deduct</i>	-1.59	
	<i>For >50 To 100, Deduct</i>	-5.72	
	<i>For >100, Deduct</i>	-11.44	
03 15 19 00-0081	EA 1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	144.29	
	<i>For Galvanized, Add</i>	55.23	
	<i>For Stainless Steel, Add</i>	386.58	
	<i>For >10 To 50, Deduct</i>	-1.69	
	<i>For >50 To 100, Deduct</i>	-6.15	
	<i>For >100, Deduct</i>	-12.29	
03 15 19 00-0082	EA 1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	157.81	
	<i>For Galvanized, Add</i>	59.39	
	<i>For Stainless Steel, Add</i>	415.70	
	<i>For >10 To 50, Deduct</i>	-1.95	
	<i>For >50 To 100, Deduct</i>	-6.87	
	<i>For >100, Deduct</i>	-13.75	
03 15 19 00-0083	EA 1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	174.63	
	<i>For Galvanized, Add</i>	64.24	
	<i>For Stainless Steel, Add</i>	449.68	
	<i>For >10 To 50, Deduct</i>	-2.31	
	<i>For >50 To 100, Deduct</i>	-7.83	
	<i>For >100, Deduct</i>	-15.65	
03 15 19 00-0084	EA 1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	198.88	
	<i>For Galvanized, Add</i>	71.24	
	<i>For Stainless Steel, Add</i>	498.68	
	<i>For >10 To 50, Deduct</i>	-2.82	
	<i>For >50 To 100, Deduct</i>	-9.20	
	<i>For >100, Deduct</i>	-18.40	
03 15 19 00-0085	EA 1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.88	
	<i>For Galvanized, Add</i>	60.75	
	<i>For Stainless Steel, Add</i>	425.25	
	<i>For >10 To 50, Deduct</i>	-1.27	
	<i>For >50 To 100, Deduct</i>	-5.58	
	<i>For >100, Deduct</i>	-11.15	
03 15 19 00-0086	EA 1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	152.33	
	<i>For Galvanized, Add</i>	62.07	
	<i>For Stainless Steel, Add</i>	434.49	
	<i>For >10 To 50, Deduct</i>	-1.41	
	<i>For >50 To 100, Deduct</i>	-5.92	
	<i>For >100, Deduct</i>	-11.85	
03 15 19 00-0087	EA 1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	156.00	
	<i>For Galvanized, Add</i>	63.07	
	<i>For Stainless Steel, Add</i>	441.49	
	<i>For >10 To 50, Deduct</i>	-1.49	
	<i>For >50 To 100, Deduct</i>	-6.14	
	<i>For >100, Deduct</i>	-12.28	
03 15 19 00-0088	EA 1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	177.42	
	<i>For Galvanized, Add</i>	72.85	
	<i>For Stainless Steel, Add</i>	509.92	
	<i>For >10 To 50, Deduct</i>	-1.59	
	<i>For >50 To 100, Deduct</i>	-6.82	
	<i>For >100, Deduct</i>	-13.63	
03 15 19 00-0089	EA 1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	204.44	
	<i>For Galvanized, Add</i>	84.09	
	<i>For Stainless Steel, Add</i>	588.63	
	<i>For >10 To 50, Deduct</i>	-1.81	
	<i>For >50 To 100, Deduct</i>	-7.83	
	<i>For >100, Deduct</i>	-15.66	
03 15 19 00-0090	EA 1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	212.69	
	<i>For Galvanized, Add</i>	85.20	
	<i>For Stainless Steel, Add</i>	596.37	
	<i>For >10 To 50, Deduct</i>	-2.12	
	<i>For >50 To 100, Deduct</i>	-8.49	
	<i>For >100, Deduct</i>	-16.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	234.76	
			<i>For Galvanized, Add</i>	92.00	
			<i>For Stainless Steel, Add</i>	644.00	
			<i>For >10 To 50, Deduct</i>	-2.54	
			<i>For >50 To 100, Deduct</i>	-9.68	
			<i>For >100, Deduct</i>	-19.35	
03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	261.63	
			<i>For Galvanized, Add</i>	99.09	
			<i>For Stainless Steel, Add</i>	693.63	
			<i>For >10 To 50, Deduct</i>	-3.17	
			<i>For >50 To 100, Deduct</i>	-11.30	
			<i>For >100, Deduct</i>	-22.60	
03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	214.82	
			<i>For Galvanized, Add</i>	92.48	
			<i>For Stainless Steel, Add</i>	647.36	
			<i>For >10 To 50, Deduct</i>	-1.49	
			<i>For >50 To 100, Deduct</i>	-7.61	
			<i>For >100, Deduct</i>	-15.22	
03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	233.80	
			<i>For Galvanized, Add</i>	99.98	
			<i>For Stainless Steel, Add</i>	699.86	
			<i>For >10 To 50, Deduct</i>	-1.69	
			<i>For >50 To 100, Deduct</i>	-8.38	
			<i>For >100, Deduct</i>	-16.77	
03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	256.98	
			<i>For Galvanized, Add</i>	108.97	
			<i>For Stainless Steel, Add</i>	762.79	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-9.35	
			<i>For >100, Deduct</i>	-18.71	
03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	276.97	
			<i>For Galvanized, Add</i>	115.41	
			<i>For Stainless Steel, Add</i>	807.87	
			<i>For >10 To 50, Deduct</i>	-2.31	
			<i>For >50 To 100, Deduct</i>	-10.39	
			<i>For >100, Deduct</i>	-20.77	
03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	298.79	
			<i>For Galvanized, Add</i>	124.02	
			<i>For Stainless Steel, Add</i>	868.11	
			<i>For >10 To 50, Deduct</i>	-2.54	
			<i>For >50 To 100, Deduct</i>	-11.28	
			<i>For >100, Deduct</i>	-22.55	
03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	321.24	
			<i>For Galvanized, Add</i>	132.42	
			<i>For Stainless Steel, Add</i>	926.94	
			<i>For >10 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-12.26	
			<i>For >100, Deduct</i>	-24.52	
03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	356.96	
			<i>For Galvanized, Add</i>	142.22	
			<i>For Stainless Steel, Add</i>	995.54	
			<i>For >10 To 50, Deduct</i>	-3.63	
			<i>For >50 To 100, Deduct</i>	-14.36	
			<i>For >100, Deduct</i>	-28.73	
03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	385.22	
			<i>For Galvanized, Add</i>	156.35	
			<i>For Stainless Steel, Add</i>	1,094.45	
			<i>For >10 To 50, Deduct</i>	-3.63	
			<i>For >50 To 100, Deduct</i>	-15.07	
			<i>For >100, Deduct</i>	-30.14	
03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	432.18	
			<i>For Galvanized, Add</i>	173.80	
			<i>For Stainless Steel, Add</i>	1,216.57	
			<i>For >10 To 50, Deduct</i>	-4.23	
			<i>For >50 To 100, Deduct</i>	-17.15	
			<i>For >100, Deduct</i>	-34.30	
03 15 19 00-0102			2-1/2" And 2-3/4" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	440.78	
			<i>For Galvanized, Add</i>	205.46	
			<i>For Stainless Steel, Add</i>	1,438.22	
			<i>For >10 To 50, Deduct</i>	-1.49	
			<i>For >50 To 100, Deduct</i>	-13.26	
			<i>For >100, Deduct</i>	-26.52	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	463.36	
			<i>For Galvanized, Add</i>	214.76	
			<i>For Stainless Steel, Add</i>	1,503.32	
			<i>For >10 To 50, Deduct</i>	-1.69	
			<i>For >50 To 100, Deduct</i>	-14.12	
			<i>For >100, Deduct</i>	-28.24	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	504.84	
			<i>For Galvanized, Add</i>	232.90	
			<i>For Stainless Steel, Add</i>	1,630.30	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-15.55	
			<i>For >100, Deduct</i>	-31.10	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	537.04	
			<i>For Galvanized, Add</i>	245.45	
			<i>For Stainless Steel, Add</i>	1,718.12	
			<i>For >10 To 50, Deduct</i>	-2.31	
			<i>For >50 To 100, Deduct</i>	-16.89	
			<i>For >100, Deduct</i>	-33.77	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	567.96	
			<i>For Galvanized, Add</i>	258.60	
			<i>For Stainless Steel, Add</i>	1,810.20	
			<i>For >10 To 50, Deduct</i>	-2.54	
			<i>For >50 To 100, Deduct</i>	-18.01	
			<i>For >100, Deduct</i>	-36.01	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	603.08	
			<i>For Galvanized, Add</i>	273.34	
			<i>For Stainless Steel, Add</i>	1,913.38	
			<i>For >10 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-19.31	
			<i>For >100, Deduct</i>	-38.61	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	649.37	
			<i>For Galvanized, Add</i>	288.43	
			<i>For Stainless Steel, Add</i>	2,018.98	
			<i>For >10 To 50, Deduct</i>	-3.63	
			<i>For >50 To 100, Deduct</i>	-21.67	
			<i>For >100, Deduct</i>	-43.35	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	496.92	
			<i>For Galvanized, Add</i>	232.60	
			<i>For Stainless Steel, Add</i>	1,628.17	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-14.80	
			<i>For >100, Deduct</i>	-29.61	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	533.87	
			<i>For Galvanized, Add</i>	248.81	
			<i>For Stainless Steel, Add</i>	1,741.64	
			<i>For >10 To 50, Deduct</i>	-1.81	
			<i>For >50 To 100, Deduct</i>	-16.07	
			<i>For >100, Deduct</i>	-32.13	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	572.64	
			<i>For Galvanized, Add</i>	265.17	
			<i>For Stainless Steel, Add</i>	1,856.19	
			<i>For >10 To 50, Deduct</i>	-2.12	
			<i>For >50 To 100, Deduct</i>	-17.49	
			<i>For >100, Deduct</i>	-34.98	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	610.57	
			<i>For Galvanized, Add</i>	279.91	
			<i>For Stainless Steel, Add</i>	1,959.34	
			<i>For >10 To 50, Deduct</i>	-2.54	
			<i>For >50 To 100, Deduct</i>	-19.07	
			<i>For >100, Deduct</i>	-38.14	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	648.42	
			<i>For Galvanized, Add</i>	296.01	
			<i>For Stainless Steel, Add</i>	2,072.07	
			<i>For >10 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-20.44	
			<i>For >100, Deduct</i>	-40.88	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	701.20	
			<i>For Galvanized, Add</i>	318.88	
			<i>For Stainless Steel, Add</i>	2,232.13	
			<i>For >10 To 50, Deduct</i>	-3.17	
			<i>For >50 To 100, Deduct</i>	-22.29	
			<i>For >100, Deduct</i>	-44.58	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	757.41	
			<i>For Galvanized, Add</i>	336.41	
			<i>For Stainless Steel, Add</i>	2,354.87	
			<i>For >10 To 50, Deduct</i>	-4.23	
			<i>For >50 To 100, Deduct</i>	-25.28	
			<i>For >100, Deduct</i>	-50.56	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.70	
For Up To 100, Add	0.45	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.18	
For Up To 100, Add	0.78	
For >100 To 200, Add	0.43	
For >200 To 500, Add	0.17	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.77	
For Up To 100, Add	1.19	
For >100 To 200, Add	0.65	
For >200 To 500, Add	0.26	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.43	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.90	
For >200 To 500, Add	0.36	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.72	
For Up To 100, Add	0.47	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.20	
For Up To 100, Add	0.80	
For >100 To 200, Add	0.44	
For >200 To 500, Add	0.17	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.81	
For Up To 100, Add	1.23	
For >100 To 200, Add	0.67	
For >200 To 500, Add	0.27	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.48	
For Up To 100, Add	1.72	
For >100 To 200, Add	0.93	
For >200 To 500, Add	0.37	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.74	
For Up To 100, Add	0.49	
For >100 To 200, Add	0.27	
For >200 To 500, Add	0.11	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.24	
For Up To 100, Add	0.84	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.18	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.87	
For Up To 100, Add	1.29	
For >100 To 200, Add	0.70	
For >200 To 500, Add	0.28	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.57	
For Up To 100, Add	1.81	
For >100 To 200, Add	0.97	
For >200 To 500, Add	0.39	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.34	
For Up To 100, Add	1.88	
For >100 To 200, Add	1.10	
For >200 To 400, Add	0.51	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.16	
For Up To 100, Add	2.39	
For >100 To 200, Add	1.39	
For >200 To 400, Add	0.65	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.12	
For Up To 100, Add	2.98	
For >100 To 200, Add	1.73	
For >200 To 400, Add	0.81	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	6.26	
For Up To 100, Add	3.01	
For >100 To 200, Add	1.63	
For >200 To 300, Add	0.81	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.44	
For Up To 100, Add	3.62	
For >100 To 200, Add	1.95	
For >200 To 300, Add	0.98	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	10.30	
For Up To 100, Add	5.09	
For >100 To 200, Add	2.73	
For >200 To 300, Add	1.36	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	17.60	
For Up To 100, Add	8.84	
For >100 To 200, Add	4.71	
For >200 To 300, Add	2.35	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.66	
For Up To 100, Add	1.90	
For >100 To 200, Add	1.02	
For >200 To 500, Add	0.41	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.46	
For Up To 100, Add	1.97	
For >100 To 200, Add	1.15	
For >200 To 400, Add	0.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.32	
		For Up To 100, Add		2.51	
		For >100 To 200, Add		1.45	
		For >200 To 400, Add		0.68	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.32	
		For Up To 100, Add		3.13	
		For >100 To 200, Add		1.81	
		For >200 To 400, Add		0.85	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.51	
		For Up To 100, Add		3.16	
		For >100 To 200, Add		1.70	
		For >200 To 300, Add		0.85	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	7.75	
		For Up To 100, Add		3.81	
		For >100 To 200, Add		2.05	
		For >200 To 300, Add		1.02	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	10.74	
		For Up To 100, Add		5.36	
		For >100 To 200, Add		2.86	
		For >200 To 300, Add		1.43	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	18.39	
		For Up To 100, Add		9.32	
		For >100 To 200, Add		4.95	
		For >200 To 300, Add		2.47	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	0.75	
		For Up To 100, Add		0.50	
		For >100 To 200, Add		0.27	
		For >200 To 500, Add		0.11	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.27	
		For Up To 100, Add		0.87	
		For >100 To 200, Add		0.47	
		For >200 To 500, Add		0.19	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.92	
		For Up To 100, Add		1.34	
		For >100 To 200, Add		0.72	
		For >200 To 500, Add		0.29	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	2.64	
		For Up To 100, Add		1.88	
		For >100 To 200, Add		1.01	
		For >200 To 500, Add		0.40	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	3.43	
		For Up To 100, Add		1.95	
		For >100 To 200, Add		1.14	
		For >200 To 400, Add		0.53	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	4.28	
		For Up To 100, Add		2.48	
		For >100 To 200, Add		1.44	
		For >200 To 400, Add		0.67	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	5.27	
		For Up To 100, Add		3.09	
		For >100 To 200, Add		1.79	
		For >200 To 400, Add		0.84	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	6.44	
		For Up To 100, Add		3.11	
		For >100 To 200, Add		1.68	
		For >200 To 300, Add		0.84	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	7.67	
		For Up To 100, Add		3.76	
		For >100 To 200, Add		2.02	
		For >200 To 300, Add		1.01	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	10.63	
		For Up To 100, Add		5.29	
		For >100 To 200, Add		2.83	
		For >200 To 300, Add		1.41	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	18.19	
		For Up To 100, Add		9.20	
		For >100 To 200, Add		4.89	
		For >200 To 300, Add		2.44	
03 21 11 00-0040		Columns, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.47	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.10	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	.....	1.26	
		For Up To 100, Add		0.82	
		For >100 To 200, Add		0.45	
		For >200 To 500, Add		0.18	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	.....	1.86	
		For Up To 100, Add		1.23	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.56	
For Up To 100, Add	1.73	
For >100 To 200, Add	0.93	
For >200 To 500, Add	0.37	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.49	
For >100 To 200, Add	0.27	
For >200 To 500, Add	0.11	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.84	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.18	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.90	
For Up To 100, Add	1.27	
For >100 To 200, Add	0.69	
For >200 To 500, Add	0.28	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.61	
For Up To 100, Add	1.78	
For >100 To 200, Add	0.96	
For >200 To 500, Add	0.38	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.77	
For Up To 100, Add	0.51	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.32	
For Up To 100, Add	0.88	
For >100 To 200, Add	0.48	
For >200 To 500, Add	0.19	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.96	
For Up To 100, Add	1.33	
For >100 To 200, Add	0.72	
For >200 To 500, Add	0.29	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.70	
For Up To 100, Add	1.87	
For >100 To 200, Add	1.00	
For >200 To 500, Add	0.40	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	3.49	
For Up To 100, Add	1.93	
For >100 To 200, Add	1.14	
For >200 To 400, Add	0.53	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	4.34	
For Up To 100, Add	2.45	
For >100 To 200, Add	1.43	
For >200 To 400, Add	0.67	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	5.33	
For Up To 100, Add	3.05	
For >100 To 200, Add	1.78	
For >200 To 400, Add	0.83	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	6.50	
For Up To 100, Add	3.08	
For >100 To 200, Add	1.68	
For >200 To 300, Add	0.84	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	7.71	
For Up To 100, Add	3.71	
For >100 To 200, Add	2.01	
For >200 To 300, Add	1.00	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	10.67	
For Up To 100, Add	5.21	
For >100 To 200, Add	2.80	
For >200 To 300, Add	1.40	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	18.17	
For Up To 100, Add	9.02	
For >100 To 200, Add	4.82	
For >200 To 300, Add	2.41	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.79	
For Up To 100, Add	1.96	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	3.61	
For Up To 100, Add	2.02	
For >100 To 200, Add	1.19	
For >200 To 400, Add	0.55	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	4.50	
For Up To 100, Add	2.57	
For >100 To 200, Add	1.50	
For >200 To 400, Add	0.70	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	5.53	
For Up To 100, Add	3.20	
For >100 To 200, Add	1.86	
For >200 To 400, Add	0.87	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	6.75	
For Up To 100, Add	3.23	
For >100 To 200, Add	1.75	
For >200 To 300, Add	0.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar	8.02	
			For Up To 100, Add	3.89	
			For >100 To 200, Add	2.10	
			For >200 To 300, Add	1.05	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar	11.11	
			For Up To 100, Add	5.47	
			For >100 To 200, Add	2.93	
			For >200 To 300, Add	1.47	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar	18.96	
			For Up To 100, Add	9.49	
			For >100 To 200, Add	5.06	
			For >200 To 300, Add	2.53	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.78	
			For Up To 100, Add	0.52	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.35	
			For Up To 100, Add	0.91	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.20	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.01	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.77	
			For Up To 100, Add	1.94	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.42	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.58	
			For Up To 100, Add	2.00	
			For >100 To 200, Add	1.18	
			For >200 To 400, Add	0.55	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.46	
			For Up To 100, Add	2.54	
			For >100 To 200, Add	1.48	
			For >200 To 400, Add	0.69	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.48	
			For Up To 100, Add	3.17	
			For >100 To 200, Add	1.84	
			For >200 To 400, Add	0.86	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.68	
			For Up To 100, Add	3.19	
			For >100 To 200, Add	1.73	
			For >200 To 300, Add	0.87	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	7.94	
			For Up To 100, Add	3.84	
			For >100 To 200, Add	2.08	
			For >200 To 300, Add	1.04	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	11.00	
			For Up To 100, Add	5.40	
			For >100 To 200, Add	2.90	
			For >200 To 300, Add	1.45	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	18.76	
			For Up To 100, Add	9.37	
			For >100 To 200, Add	5.00	
			For >200 To 300, Add	2.50	
03 21 11 00-0079			Footings, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar	0.63	
			For Up To 100, Add	0.43	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar	1.08	
			For Up To 100, Add	0.74	
			For >100 To 200, Add	0.40	
			For >200 To 500, Add	0.16	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar	1.64	
			For Up To 100, Add	1.14	
			For >100 To 200, Add	0.61	
			For >200 To 500, Add	0.25	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar	2.25	
			For Up To 100, Add	1.60	
			For >100 To 200, Add	0.86	
			For >200 To 500, Add	0.34	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar	0.65	
			For Up To 100, Add	0.45	
			For >100 To 200, Add	0.24	
			For >200 To 500, Add	0.10	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar	1.10	
			For Up To 100, Add	0.76	
			For >100 To 200, Add	0.41	
			For >200 To 500, Add	0.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0086 LF #5, Grade 50, Footings, Steel Reinforcement Bar	1.68	
<i>For Up To 100, Add</i>	1.18	
<i>For >100 To 200, Add</i>	0.63	
<i>For >200 To 500, Add</i>	0.25	
03 21 11 00-0087 LF #6, Grade 50, Footings, Steel Reinforcement Bar	2.30	
<i>For Up To 100, Add</i>	1.65	
<i>For >100 To 200, Add</i>	0.88	
<i>For >200 To 500, Add</i>	0.35	
03 21 11 00-0088 LF #3, Grade 60, Footings, Steel Reinforcement Bar	0.67	
<i>For Up To 100, Add</i>	0.47	
<i>For >100 To 200, Add</i>	0.25	
<i>For >200 To 500, Add</i>	0.10	
03 21 11 00-0089 LF #4, Grade 60, Footings, Steel Reinforcement Bar	1.14	
<i>For Up To 100, Add</i>	0.80	
<i>For >100 To 200, Add</i>	0.43	
<i>For >200 To 500, Add</i>	0.17	
03 21 11 00-0090 LF #5, Grade 60, Footings, Steel Reinforcement Bar	1.74	
<i>For Up To 100, Add</i>	1.24	
<i>For >100 To 200, Add</i>	0.66	
<i>For >200 To 500, Add</i>	0.27	
03 21 11 00-0091 LF #6, Grade 60, Footings, Steel Reinforcement Bar	2.39	
<i>For Up To 100, Add</i>	1.74	
<i>For >100 To 200, Add</i>	0.93	
<i>For >200 To 500, Add</i>	0.37	
03 21 11 00-0092 LF #7, Grade 60, Footings, Steel Reinforcement Bar	3.11	
<i>For Up To 100, Add</i>	1.80	
<i>For >100 To 200, Add</i>	1.04	
<i>For >200 To 400, Add</i>	0.49	
03 21 11 00-0093 LF #8, Grade 60, Footings, Steel Reinforcement Bar	3.89	
<i>For Up To 100, Add</i>	2.29	
<i>For >100 To 200, Add</i>	1.32	
<i>For >200 To 400, Add</i>	0.62	
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar	4.79	
<i>For Up To 100, Add</i>	2.86	
<i>For >100 To 200, Add</i>	1.64	
<i>For >200 To 400, Add</i>	0.78	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar	5.87	
<i>For Up To 100, Add</i>	3.56	
<i>For >100 To 200, Add</i>	2.03	
<i>For >200 To 400, Add</i>	0.96	
<i>For Up To 100, Add</i>	2.89	
<i>For >100 To 200, Add</i>	1.55	
<i>For >200 To 300, Add</i>	0.78	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar	7.02	
<i>For Up To 100, Add</i>	4.31	
<i>For >100 To 200, Add</i>	2.45	
<i>For >200 To 400, Add</i>	1.17	
<i>For Up To 100, Add</i>	3.50	
<i>For >100 To 200, Add</i>	1.87	
<i>For >200 To 300, Add</i>	0.93	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar	9.76	
<i>For Up To 100, Add</i>	6.09	
<i>For >100 To 200, Add</i>	3.44	
<i>For >200 To 400, Add</i>	1.64	
<i>For Up To 100, Add</i>	4.93	
<i>For >100 To 200, Add</i>	2.62	
<i>For >200 To 300, Add</i>	1.31	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar	16.74	
<i>For Up To 100, Add</i>	10.61	
<i>For >100 To 200, Add</i>	5.97	
<i>For >200 To 400, Add</i>	2.86	
<i>For Up To 100, Add</i>	8.59	
<i>For >100 To 200, Add</i>	4.54	
<i>For >200 To 300, Add</i>	2.27	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar	2.48	
<i>For Up To 100, Add</i>	1.83	
<i>For >100 To 200, Add</i>	0.97	
<i>For >200 To 500, Add</i>	0.39	
<i>For Up To 100, Add</i>	1.43	
<i>For >100 To 200, Add</i>	0.83	
<i>For >200 To 400, Add</i>	0.39	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar	3.23	
<i>For Up To 100, Add</i>	1.89	
<i>For >100 To 200, Add</i>	1.09	
<i>For >200 To 400, Add</i>	0.51	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar	4.05	
<i>For Up To 100, Add</i>	2.41	
<i>For >100 To 200, Add</i>	1.39	
<i>For >200 To 400, Add</i>	0.65	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar	4.99	
<i>For Up To 100, Add</i>	3.01	
<i>For >100 To 200, Add</i>	1.72	
<i>For >200 To 400, Add</i>	0.82	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar	6.12	
<i>For Up To 100, Add</i>	3.04	
<i>For >100 To 200, Add</i>	1.63	
<i>For >200 To 300, Add</i>	0.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0104	LF		#11, Grade 75, Footings, Steel Reinforcement Bar	7.33	
			For Up To 100, Add	3.68	
			For >100 To 200, Add	1.96	
			For >200 To 300, Add	0.98	
03 21 11 00-0105	LF		#14, Grade 75, Footings, Steel Reinforcement Bar	10.20	
			For Up To 100, Add	5.20	
			For >100 To 200, Add	2.75	
			For >200 To 300, Add	1.38	
03 21 11 00-0106	LF		#18, Grade 75, Footings, Steel Reinforcement Bar	17.53	
			For Up To 100, Add	9.06	
			For >100 To 200, Add	4.77	
			For >200 To 300, Add	2.39	
03 21 11 00-0107	LF		#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.68	
			For Up To 100, Add	0.48	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.10	
03 21 11 00-0108	LF		#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.17	
			For Up To 100, Add	0.83	
			For >100 To 200, Add	0.45	
			For >200 To 500, Add	0.18	
03 21 11 00-0109	LF		#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.79	
			For Up To 100, Add	1.29	
			For >100 To 200, Add	0.69	
			For >200 To 500, Add	0.28	
03 21 11 00-0110	LF		#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.46	
			For Up To 100, Add	1.81	
			For >100 To 200, Add	0.96	
			For >200 To 500, Add	0.38	
03 21 11 00-0111	LF		#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.20	
			For Up To 100, Add	1.87	
			For >100 To 200, Add	1.08	
			For >200 To 400, Add	0.51	
03 21 11 00-0112	LF		#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.01	
			For Up To 100, Add	2.38	
			For >100 To 200, Add	1.37	
			For >200 To 400, Add	0.65	
03 21 11 00-0113	LF		#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.94	
			For Up To 100, Add	2.98	
			For >100 To 200, Add	1.70	
			For >200 To 400, Add	0.81	
03 21 11 00-0114	LF		#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.05	
			For Up To 100, Add	3.00	
			For >100 To 200, Add	1.60	
			For >200 To 300, Add	0.80	
03 21 11 00-0115	LF		#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.25	
			For Up To 100, Add	3.64	
			For >100 To 200, Add	1.94	
			For >200 To 300, Add	0.97	
03 21 11 00-0116	LF		#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	10.09	
			For Up To 100, Add	5.13	
			For >100 To 200, Add	2.72	
			For >200 To 300, Add	1.36	
03 21 11 00-0117	LF		#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	17.33	
			For Up To 100, Add	8.94	
			For >100 To 200, Add	4.71	
			For >200 To 300, Add	2.36	
03 21 11 00-0118			Slab On Grade, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119	LF		#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.61	
			For Up To 100, Add	0.42	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0120	LF		#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.05	
			For Up To 100, Add	0.73	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.16	
03 21 11 00-0121	LF		#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.58	
			For Up To 100, Add	1.12	
			For >100 To 200, Add	0.60	
			For >200 To 500, Add	0.24	
03 21 11 00-0122	LF		#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	2.18	
			For Up To 100, Add	1.57	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.34	
03 21 11 00-0123	LF		#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.63	
			For Up To 100, Add	0.44	
			For >100 To 200, Add	0.24	
			For >200 To 500, Add	0.09	
03 21 11 00-0124	LF		#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.07	
			For Up To 100, Add	0.75	
			For >100 To 200, Add	0.40	
			For >200 To 500, Add	0.16	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	11 00-0125	LF	#5,	Grade 50, Slab On Grade, Steel Reinforcement Bar 1.62		
				For Up To 100, Add	1.16	
				For >100 To 200, Add	0.62	
				For >200 To 500, Add	0.25	
03 21	11 00-0126	LF	#6,	Grade 50, Slab On Grade, Steel Reinforcement Bar 2.23		
				For Up To 100, Add	1.62	
				For >100 To 200, Add	0.86	
				For >200 To 500, Add	0.35	
03 21	11 00-0127	LF	#3,	Grade 60, Slab On Grade, Steel Reinforcement Bar 0.65		
				For Up To 100, Add	0.46	
				For >100 To 200, Add	0.25	
				For >200 To 500, Add	0.10	
03 21	11 00-0128	LF	#4,	Grade 60, Slab On Grade, Steel Reinforcement Bar 1.11		
				For Up To 100, Add	0.79	
				For >100 To 200, Add	0.42	
				For >200 To 500, Add	0.17	
03 21	11 00-0129	LF	#5,	Grade 60, Slab On Grade, Steel Reinforcement Bar 1.68		
				For Up To 100, Add	1.22	
				For >100 To 200, Add	0.65	
				For >200 To 500, Add	0.26	
03 21	11 00-0130	LF	#6,	Grade 60, Slab On Grade, Steel Reinforcement Bar 2.32		
				For Up To 100, Add	1.71	
				For >100 To 200, Add	0.91	
				For >200 To 500, Add	0.36	
03 21	11 00-0131	LF	#7,	Grade 60, Slab On Grade, Steel Reinforcement Bar 3.03		
				For Up To 100, Add	1.77	
				For >100 To 200, Add	1.02	
				For >200 To 400, Add	0.48	
03 21	11 00-0132	LF	#8,	Grade 60, Slab On Grade, Steel Reinforcement Bar 3.79		
				For Up To 100, Add	2.26	
				For >100 To 200, Add	1.30	
				For >200 To 400, Add	0.61	
03 21	11 00-0133	LF	#9,	Grade 60, Slab On Grade, Steel Reinforcement Bar 4.68		
				For Up To 100, Add	2.83	
				For >100 To 200, Add	1.62	
				For >200 To 400, Add	0.77	
03 21	11 00-0134	LF	#10,	Grade 60, Slab On Grade, Steel Reinforcement Bar 5.74		
				For Up To 100, Add	2.85	
				For >100 To 200, Add	1.52	
				For >200 To 300, Add	0.76	
03 21	11 00-0135	LF	#11,	Grade 60, Slab On Grade, Steel Reinforcement Bar 6.89		
				For Up To 100, Add	3.46	
				For >100 To 200, Add	1.84	
				For >200 To 300, Add	0.92	
03 21	11 00-0136	LF	#14,	Grade 60, Slab On Grade, Steel Reinforcement Bar 9.57		
				For Up To 100, Add	4.88	
				For >100 To 200, Add	2.58	
				For >200 To 300, Add	1.29	
03 21	11 00-0137	LF	#18,	Grade 60, Slab On Grade, Steel Reinforcement Bar 16.46		
				For Up To 100, Add	8.50	
				For >100 To 200, Add	4.48	
				For >200 To 300, Add	2.24	
03 21	11 00-0138	LF	#6,	Grade 75, Slab On Grade, Steel Reinforcement Bar 2.41		
				For Up To 100, Add	1.80	
				For >100 To 200, Add	0.95	
				For >200 To 500, Add	0.38	
03 21	11 00-0139	LF	#7,	Grade 75, Slab On Grade, Steel Reinforcement Bar 3.15		
				For Up To 100, Add	1.86	
				For >100 To 200, Add	1.07	
				For >200 To 400, Add	0.51	
03 21	11 00-0140	LF	#8,	Grade 75, Slab On Grade, Steel Reinforcement Bar 3.95		
				For Up To 100, Add	2.38	
				For >100 To 200, Add	1.36	
				For >200 To 400, Add	0.64	
03 21	11 00-0141	LF	#9,	Grade 75, Slab On Grade, Steel Reinforcement Bar 4.88		
				For Up To 100, Add	2.98	
				For >100 To 200, Add	1.70	
				For >200 To 400, Add	0.81	
03 21	11 00-0142	LF	#10,	Grade 75, Slab On Grade, Steel Reinforcement Bar 5.99		
				For Up To 100, Add	3.00	
				For >100 To 200, Add	1.60	
				For >200 To 300, Add	0.80	
03 21	11 00-0143	LF	#11,	Grade 75, Slab On Grade, Steel Reinforcement Bar 7.20		
				For Up To 100, Add	3.65	
				For >100 To 200, Add	1.94	
				For >200 To 300, Add	0.97	
03 21	11 00-0144	LF	#14,	Grade 75, Slab On Grade, Steel Reinforcement Bar 10.01		
				For Up To 100, Add	5.14	
				For >100 To 200, Add	2.71	
				For >200 To 300, Add	1.36	
03 21	11 00-0145	LF	#18,	Grade 75, Slab On Grade, Steel Reinforcement Bar 17.25		
				For Up To 100, Add	8.98	
				For >100 To 200, Add	4.72	
				For >200 To 300, Add	2.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.66	
		For Up To 100, Add		0.47	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.14	
		For Up To 100, Add		0.82	
		For >100 To 200, Add		0.44	
		For >200 To 500, Add		0.18	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.73	
		For Up To 100, Add		1.27	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.39	
		For Up To 100, Add		1.78	
		For >100 To 200, Add		0.94	
		For >200 To 500, Add		0.38	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.12	
		For Up To 100, Add		1.84	
		For >100 To 200, Add		1.06	
		For >200 To 400, Add		0.50	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.91	
		For Up To 100, Add		2.35	
		For >100 To 200, Add		1.35	
		For >200 To 400, Add		0.64	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	4.83	
		For Up To 100, Add		2.94	
		For >100 To 200, Add		1.68	
		For >200 To 400, Add		0.80	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	5.92	
		For Up To 100, Add		2.96	
		For >100 To 200, Add		1.58	
		For >200 To 300, Add		0.79	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	7.12	
		For Up To 100, Add		3.60	
		For >100 To 200, Add		1.91	
		For >200 To 300, Add		0.96	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	9.90	
		For Up To 100, Add		5.07	
		For >100 To 200, Add		2.68	
		For >200 To 300, Add		1.34	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	17.05	
		For Up To 100, Add		8.86	
		For >100 To 200, Add		4.66	
		For >200 To 300, Add		2.33	
03 21 11 00-0157		Elevated Slabs, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.57	
		For Up To 100, Add		0.40	
		For >100 To 200, Add		0.22	
		For >200 To 500, Add		0.09	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.98	
		For Up To 100, Add		0.70	
		For >100 To 200, Add		0.38	
		For >200 To 500, Add		0.15	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.48	
		For Up To 100, Add		1.08	
		For >100 To 200, Add		0.57	
		For >200 To 500, Add		0.23	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	2.06	
		For Up To 100, Add		1.53	
		For >100 To 200, Add		0.81	
		For >200 To 500, Add		0.32	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.59	
		For Up To 100, Add		0.42	
		For >100 To 200, Add		0.23	
		For >200 To 500, Add		0.09	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.00	
		For Up To 100, Add		0.72	
		For >100 To 200, Add		0.39	
		For >200 To 500, Add		0.15	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.52	
		For Up To 100, Add		1.12	
		For >100 To 200, Add		0.59	
		For >200 To 500, Add		0.24	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	2.11	
		For Up To 100, Add		1.58	
		For >100 To 200, Add		0.83	
		For >200 To 500, Add		0.33	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	0.61	
		For Up To 100, Add		0.44	
		For >100 To 200, Add		0.24	
		For >200 To 500, Add		0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.04	
<i>For Up To 100, Add</i>	0.76	
<i>For >100 To 200, Add</i>	0.41	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.58	
<i>For Up To 100, Add</i>	1.18	
<i>For >100 To 200, Add</i>	0.62	
<i>For >200 To 500, Add</i>	0.25	
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.20	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 200, Add</i>	0.88	
<i>For >200 To 500, Add</i>	0.35	
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.88	
<i>For Up To 100, Add</i>	1.72	
<i>For >100 To 200, Add</i>	0.99	
<i>For >200 To 400, Add</i>	0.47	
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.60	
<i>For Up To 100, Add</i>	2.19	
<i>For >100 To 200, Add</i>	1.25	
<i>For >200 To 400, Add</i>	0.59	
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.47	
<i>For Up To 100, Add</i>	2.75	
<i>For >100 To 200, Add</i>	1.56	
<i>For >200 To 400, Add</i>	0.74	
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.50	
<i>For Up To 100, Add</i>	2.78	
<i>For >100 To 200, Add</i>	1.48	
<i>For >200 To 300, Add</i>	0.74	
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.59	
<i>For Up To 100, Add</i>	3.37	
<i>For >100 To 200, Add</i>	1.78	
<i>For >200 To 300, Add</i>	0.89	
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	9.22	
<i>For Up To 100, Add</i>	4.77	
<i>For >100 To 200, Add</i>	2.51	
<i>For >200 To 300, Add</i>	1.26	
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	15.89	
<i>For Up To 100, Add</i>	8.33	
<i>For >100 To 200, Add</i>	4.37	
<i>For >200 To 300, Add</i>	2.18	
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.29	
<i>For Up To 100, Add</i>	1.76	
<i>For >100 To 200, Add</i>	0.92	
<i>For >200 To 500, Add</i>	0.37	
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.00	
<i>For Up To 100, Add</i>	1.81	
<i>For >100 To 200, Add</i>	1.04	
<i>For >200 To 400, Add</i>	0.49	
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.76	
<i>For Up To 100, Add</i>	2.31	
<i>For >100 To 200, Add</i>	1.31	
<i>For >200 To 400, Add</i>	0.63	
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.67	
<i>For Up To 100, Add</i>	2.90	
<i>For >100 To 200, Add</i>	1.64	
<i>For >200 To 400, Add</i>	0.78	
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.75	
<i>For Up To 100, Add</i>	2.93	
<i>For >100 To 200, Add</i>	1.55	
<i>For >200 To 300, Add</i>	0.78	
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.90	
<i>For Up To 100, Add</i>	3.56	
<i>For >100 To 200, Add</i>	1.88	
<i>For >200 To 300, Add</i>	0.94	
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	9.66	
<i>For Up To 100, Add</i>	5.03	
<i>For >100 To 200, Add</i>	2.64	
<i>For >200 To 300, Add</i>	1.32	
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	16.68	
<i>For Up To 100, Add</i>	8.81	
<i>For >100 To 200, Add</i>	4.60	
<i>For >200 To 300, Add</i>	2.30	
03 21 11 00-0185 LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.62	
<i>For Up To 100, Add</i>	0.45	
<i>For >100 To 200, Add</i>	0.24	
<i>For >200 To 500, Add</i>	0.10	
03 21 11 00-0186 LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.07	
<i>For Up To 100, Add</i>	0.79	
<i>For >100 To 200, Add</i>	0.42	
<i>For >200 To 500, Add</i>	0.17	
03 21 11 00-0187 LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.63	
<i>For Up To 100, Add</i>	1.23	
<i>For >100 To 200, Add</i>	0.65	
<i>For >200 To 500, Add</i>	0.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0188	LF		#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.27	
			For Up To 100, Add	1.74	
			For >100 To 200, Add	0.91	
			For >200 To 500, Add	0.37	
03 21 11 00-0189	LF		#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.97	
			For Up To 100, Add	1.79	
			For >100 To 200, Add	1.02	
			For >200 To 400, Add	0.48	
03 21 11 00-0190	LF		#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.72	
			For Up To 100, Add	2.28	
			For >100 To 200, Add	1.30	
			For >200 To 400, Add	0.62	
03 21 11 00-0191	LF		#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.62	
			For Up To 100, Add	2.87	
			For >100 To 200, Add	1.62	
			For >200 To 400, Add	0.77	
03 21 11 00-0192	LF		#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	5.68	
			For Up To 100, Add	2.89	
			For >100 To 200, Add	1.53	
			For >200 To 300, Add	0.77	
03 21 11 00-0193	LF		#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.82	
			For Up To 100, Add	3.51	
			For >100 To 200, Add	1.85	
			For >200 To 300, Add	0.93	
03 21 11 00-0194	LF		#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	9.55	
			For Up To 100, Add	4.97	
			For >100 To 200, Add	2.61	
			For >200 To 300, Add	1.31	
03 21 11 00-0195	LF		#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	16.48	
			For Up To 100, Add	8.69	
			For >100 To 200, Add	4.54	
			For >200 To 300, Add	2.27	
03 21 11 00-0196			Walls, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0197	LF		#3, Grade 40, Walls, Steel Reinforcement Bar	0.55	
			For Up To 100, Add	0.39	
			For >100 To 200, Add	0.21	
			For >200 To 500, Add	0.08	
03 21 11 00-0198	LF		#4, Grade 40, Walls, Steel Reinforcement Bar	0.95	
			For Up To 100, Add	0.69	
			For >100 To 200, Add	0.37	
			For >200 To 500, Add	0.15	
03 21 11 00-0199	LF		#5, Grade 40, Walls, Steel Reinforcement Bar	1.43	
			For Up To 100, Add	1.06	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 11 00-0200	LF		#6, Grade 40, Walls, Steel Reinforcement Bar	2.00	
			For Up To 100, Add	1.50	
			For >100 To 200, Add	0.79	
			For >200 To 500, Add	0.32	
03 21 11 00-0201	LF		#3, Grade 50, Walls, Steel Reinforcement Bar	0.57	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0202	LF		#4, Grade 50, Walls, Steel Reinforcement Bar	0.97	
			For Up To 100, Add	0.71	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 11 00-0203	LF		#5, Grade 50, Walls, Steel Reinforcement Bar	1.47	
			For Up To 100, Add	1.10	
			For >100 To 200, Add	0.58	
			For >200 To 500, Add	0.23	
03 21 11 00-0204	LF		#6, Grade 50, Walls, Steel Reinforcement Bar	2.05	
			For Up To 100, Add	1.55	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21 11 00-0205	LF		#3, Grade 60, Walls, Steel Reinforcement Bar	0.59	
			For Up To 100, Add	0.43	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0206	LF		#4, Grade 60, Walls, Steel Reinforcement Bar	1.01	
			For Up To 100, Add	0.75	
			For >100 To 200, Add	0.40	
			For >200 To 500, Add	0.16	
03 21 11 00-0207	LF		#5, Grade 60, Walls, Steel Reinforcement Bar	1.53	
			For Up To 100, Add	1.16	
			For >100 To 200, Add	0.61	
			For >200 To 500, Add	0.24	
03 21 11 00-0208	LF		#6, Grade 60, Walls, Steel Reinforcement Bar	2.14	
			For Up To 100, Add	1.64	
			For >100 To 200, Add	0.86	
			For >200 To 500, Add	0.35	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	11 00-0209	LF	#7,	Grade 60, Walls, Steel Reinforcement Bar .....2.79		
				For Up To 100, Add	1.69	
				For >100 To 200, Add	0.96	
				For >200 To 400, Add	0.46	
03 21	11 00-0210	LF	#8,	Grade 60, Walls, Steel Reinforcement Bar .....3.52		
				For Up To 100, Add	2.16	
				For >100 To 200, Add	1.23	
				For >200 To 400, Add	0.59	
03 21	11 00-0211	LF	#9,	Grade 60, Walls, Steel Reinforcement Bar .....4.37		
				For Up To 100, Add	2.72	
				For >100 To 200, Add	1.54	
				For >200 To 400, Add	0.73	
03 21	11 00-0212	LF	#10,	Grade 60, Walls, Steel Reinforcement Bar .....5.38		
				For Up To 100, Add	2.74	
				For >100 To 200, Add	1.45	
				For >200 To 300, Add	0.73	
03 21	11 00-0213	LF	#11,	Grade 60, Walls, Steel Reinforcement Bar .....6.46		
				For Up To 100, Add	3.33	
				For >100 To 200, Add	1.76	
				For >200 To 300, Add	0.88	
03 21	11 00-0214	LF	#14,	Grade 60, Walls, Steel Reinforcement Bar .....9.04		
				For Up To 100, Add	4.72	
				For >100 To 200, Add	2.48	
				For >200 To 300, Add	1.24	
03 21	11 00-0215	LF	#18,	Grade 60, Walls, Steel Reinforcement Bar .....15.61		
				For Up To 100, Add	8.25	
				For >100 To 200, Add	4.31	
				For >200 To 300, Add	2.16	
03 21	11 00-0216	LF	#6,	Grade 75, Walls, Steel Reinforcement Bar .....2.23		
				For Up To 100, Add	1.73	
				For >100 To 200, Add	0.91	
				For >200 To 500, Add	0.36	
03 21	11 00-0217	LF	#7,	Grade 75, Walls, Steel Reinforcement Bar .....2.91		
				For Up To 100, Add	1.78	
				For >100 To 200, Add	1.01	
				For >200 To 400, Add	0.48	
03 21	11 00-0218	LF	#8,	Grade 75, Walls, Steel Reinforcement Bar .....3.68		
				For Up To 100, Add	2.28	
				For >100 To 200, Add	1.29	
				For >200 To 400, Add	0.62	
03 21	11 00-0219	LF	#9,	Grade 75, Walls, Steel Reinforcement Bar .....4.57		
				For Up To 100, Add	2.87	
				For >100 To 200, Add	1.62	
				For >200 To 400, Add	0.77	
03 21	11 00-0220	LF	#10,	Grade 75, Walls, Steel Reinforcement Bar .....5.63		
				For Up To 100, Add	2.89	
				For >100 To 200, Add	1.53	
				For >200 To 300, Add	0.76	
03 21	11 00-0221	LF	#11,	Grade 75, Walls, Steel Reinforcement Bar .....6.77		
				For Up To 100, Add	3.52	
				For >100 To 200, Add	1.85	
				For >200 To 300, Add	0.92	
03 21	11 00-0222	LF	#14,	Grade 75, Walls, Steel Reinforcement Bar .....9.48		
				For Up To 100, Add	4.98	
				For >100 To 200, Add	2.61	
				For >200 To 300, Add	1.30	
03 21	11 00-0223	LF	#18,	Grade 75, Walls, Steel Reinforcement Bar .....16.40		
				For Up To 100, Add	8.72	
				For >100 To 200, Add	4.55	
				For >200 To 300, Add	2.27	
03 21	11 00-0224	LF	#3,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....0.60		
				For Up To 100, Add	0.44	
				For >100 To 200, Add	0.24	
				For >200 To 500, Add	0.09	
03 21	11 00-0225	LF	#4,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....1.04		
				For Up To 100, Add	0.78	
				For >100 To 200, Add	0.41	
				For >200 To 500, Add	0.17	
03 21	11 00-0226	LF	#5,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....1.58		
				For Up To 100, Add	1.21	
				For >100 To 200, Add	0.64	
				For >200 To 500, Add	0.25	
03 21	11 00-0227	LF	#6,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....2.21		
				For Up To 100, Add	1.71	
				For >100 To 200, Add	0.90	
				For >200 To 500, Add	0.36	
03 21	11 00-0228	LF	#7,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....2.88		
				For Up To 100, Add	1.76	
				For >100 To 200, Add	1.00	
				For >200 To 400, Add	0.48	
03 21	11 00-0229	LF	#8,	Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....3.64		
				For Up To 100, Add	2.25	
				For >100 To 200, Add	1.28	
				For >200 To 400, Add	0.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.52	
			<i>For Up To 100, Add</i>	2.83	
			<i>For >100 To 200, Add</i>	1.60	
			<i>For >200 To 400, Add</i>	0.76	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.56	
			<i>For Up To 100, Add</i>	2.85	
			<i>For >100 To 200, Add</i>	1.51	
			<i>For >200 To 300, Add</i>	0.75	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.69	
			<i>For Up To 100, Add</i>	3.47	
			<i>For >100 To 200, Add</i>	1.83	
			<i>For >200 To 300, Add</i>	0.91	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	9.37	
			<i>For Up To 100, Add</i>	4.91	
			<i>For >100 To 200, Add</i>	2.58	
			<i>For >200 To 300, Add</i>	1.29	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	16.20	
			<i>For Up To 100, Add</i>	8.60	
			<i>For >100 To 200, Add</i>	4.49	
			<i>For >200 To 300, Add</i>	2.24	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	234.67	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice	128.19	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	3.10	
			<i>For Up To 12" Length, Deduct</i>	-0.35	
			<i>For >12" To <24" Length, Deduct</i>	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.70	
			<i>For Up To 12" Length, Deduct</i>	-0.46	
			<i>For >12" To <24" Length, Deduct</i>	-0.23	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	4.49	
			<i>For Up To 12" Length, Deduct</i>	-0.72	
			<i>For >12" To <24" Length, Deduct</i>	-0.36	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	5.45	
			<i>For Up To 12" Length, Deduct</i>	-1.04	
			<i>For >12" To <24" Length, Deduct</i>	-0.52	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	6.38	
			<i>For Up To 12" Length, Deduct</i>	-1.45	
			<i>For >12" To <24" Length, Deduct</i>	-0.73	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	8.06	
			<i>For Up To 12" Length, Deduct</i>	-1.86	
			<i>For >12" To <24" Length, Deduct</i>	-0.93	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.48	
			<i>For Up To 12" Length, Deduct</i>	-2.30	
			<i>For >12" To <24" Length, Deduct</i>	-1.15	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.60	
			<i>For Up To 12" Length, Deduct</i>	-3.00	
			<i>For >12" To <24" Length, Deduct</i>	-1.50	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.73	
			<i>For Up To 12" Length, Deduct</i>	-3.71	
			<i>For >12" To <24" Length, Deduct</i>	-1.85	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,550.09	
			<i>For Grade 75, Add</i>	136.87	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	3,508.68	
			<i>For Grade 75, Add</i>	136.87	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	3,477.12	
			<i>For Grade 75, Add</i>	136.87	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	3,425.45	
			<i>For Grade 75, Add</i>	136.87	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,355.61	
			<i>For Grade 75, Add</i>	136.87	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,331.41	
			<i>For Grade 75, Add</i>	140.23	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,272.94	
			<i>For Grade 75, Add</i>	140.23	
03 21 11 00-0258			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0259			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0258)		
03 21 11 00-0260	EA		Up To #6 Reinforcing Steel Lap-Weld Splice	61.52	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0261 EA >#6 Reinforcing Steel Lap-Weld Splice	98.07	
03 21 11 00-0262 Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)		
03 21 11 00-0263 EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	33.41	
03 21 11 00-0264 EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	51.00	
03 21 11 00-0265 EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	76.05	
03 21 13 Galvanized Reinforcement Steel Bars (03 21)		
03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002 LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.85	
For Up To 100, Add	0.60	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	
03 21 13 00-0003 LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.44	
For Up To 100, Add	1.04	
For >100 To 200, Add	0.56	
For >200 To 500, Add	0.22	
03 21 13 00-0004 LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.18	
For Up To 100, Add	1.60	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 13 00-0005 LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	3.02	
For Up To 100, Add	2.26	
For >100 To 200, Add	1.20	
For >200 To 500, Add	0.48	
03 21 13 00-0006 LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.87	
For Up To 100, Add	0.62	
For >100 To 200, Add	0.33	
For >200 To 500, Add	0.13	
03 21 13 00-0007 LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.47	
For Up To 100, Add	1.07	
For >100 To 200, Add	0.57	
For >200 To 500, Add	0.23	
03 21 13 00-0008 LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.22	
For Up To 100, Add	1.64	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 13 00-0009 LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	3.08	
For Up To 100, Add	2.32	
For >100 To 200, Add	1.23	
For >200 To 500, Add	0.49	
03 21 13 00-0010 LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.89	
For Up To 100, Add	0.64	
For >100 To 200, Add	0.34	
For >200 To 500, Add	0.14	
03 21 13 00-0011 LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.51	
For Up To 100, Add	1.11	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.24	
03 21 13 00-0012 LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.29	
For Up To 100, Add	1.71	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.36	
03 21 13 00-0013 LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.17	
For Up To 100, Add	2.41	
For >100 To 200, Add	1.27	
For >200 To 500, Add	0.51	
03 21 13 00-0014 LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.16	
For Up To 100, Add	2.50	
For >100 To 200, Add	1.43	
For >200 To 400, Add	0.68	
03 21 13 00-0015 LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.22	
For Up To 100, Add	3.18	
For >100 To 200, Add	1.81	
For >200 To 400, Add	0.66	
03 21 13 00-0016 LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.47	
For Up To 100, Add	3.99	
For >100 To 200, Add	2.27	
For >200 To 400, Add	1.08	
03 21 13 00-0017 LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.97	
For Up To 100, Add	4.03	
For >100 To 200, Add	2.14	
For >200 To 300, Add	1.07	
03 21 13 00-0018 LF #11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.55	
For Up To 100, Add	4.89	
For >100 To 200, Add	2.59	
For >200 To 300, Add	1.29	
03 21 13 00-0019 LF #14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	13.34	
For Up To 100, Add	6.92	
For >100 To 200, Add	3.64	
For >200 To 300, Add	1.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	23.00	
			For Up To 100, Add	12.08	
			For >100 To 200, Add	6.33	
			For >200 To 300, Add	3.16	
03 21	13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.26	
			For Up To 100, Add	2.50	
			For >100 To 200, Add	1.32	
			For >200 To 500, Add	0.53	
03 21	13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.28	
			For Up To 100, Add	2.59	
			For >100 To 200, Add	1.48	
			For >200 To 400, Add	0.70	
03 21	13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.38	
			For Up To 100, Add	3.30	
			For >100 To 200, Add	1.88	
			For >200 To 400, Add	0.89	
03 21	13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.67	
			For Up To 100, Add	4.14	
			For >100 To 200, Add	2.35	
			For >200 To 400, Add	1.12	
03 21	13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	8.22	
			For Up To 100, Add	4.18	
			For >100 To 200, Add	2.22	
			For >200 To 300, Add	1.11	
03 21	13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.86	
			For Up To 100, Add	5.08	
			For >100 To 200, Add	2.68	
			For >200 To 300, Add	1.34	
03 21	13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	13.78	
			For Up To 100, Add	7.18	
			For >100 To 200, Add	3.77	
			For >200 To 300, Add	1.89	
03 21	13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	23.79	
			For Up To 100, Add	12.56	
			For >100 To 200, Add	6.57	
			For >200 To 300, Add	3.28	
03 21	13 00-0029		Columns, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.88	
			For Up To 100, Add	0.62	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	
03 21	13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.52	
			For Up To 100, Add	1.08	
			For >100 To 200, Add	0.58	
			For >200 To 500, Add	0.23	
03 21	13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.27	
			For Up To 100, Add	1.64	
			For >100 To 200, Add	0.87	
			For >200 To 500, Add	0.35	
03 21	13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.15	
			For Up To 100, Add	2.32	
			For >100 To 200, Add	1.23	
			For >200 To 500, Add	0.49	
03 21	13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.90	
			For Up To 100, Add	0.64	
			For >100 To 200, Add	0.34	
			For >200 To 500, Add	0.14	
03 21	13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.55	
			For Up To 100, Add	1.11	
			For >100 To 200, Add	0.59	
			For >200 To 500, Add	0.24	
03 21	13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.31	
			For Up To 100, Add	1.68	
			For >100 To 200, Add	0.89	
			For >200 To 500, Add	0.36	
03 21	13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.21	
			For Up To 100, Add	2.38	
			For >100 To 200, Add	1.26	
			For >200 To 500, Add	0.50	
03 21	13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.92	
			For Up To 100, Add	0.66	
			For >100 To 200, Add	0.35	
			For >200 To 500, Add	0.14	
03 21	13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.59	
			For Up To 100, Add	1.15	
			For >100 To 200, Add	0.61	
			For >200 To 500, Add	0.24	
03 21	13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.38	
			For Up To 100, Add	1.75	
			For >100 To 200, Add	0.93	
			For >200 To 500, Add	0.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0041	LF	#6,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	3.30	
				<i>For Up To 100, Add</i>	2.47	
				<i>For >100 To 200, Add</i>	1.30	
				<i>For >200 To 500, Add</i>	0.52	
03 21 13 00-0042	LF	#7,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	4.31	
				<i>For Up To 100, Add</i>	2.55	
				<i>For >100 To 200, Add</i>	1.47	
				<i>For >200 To 400, Add</i>	0.69	
03 21 13 00-0043	LF	#8,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	5.40	
				<i>For Up To 100, Add</i>	3.25	
				<i>For >100 To 200, Add</i>	1.86	
				<i>For >200 To 400, Add</i>	0.88	
03 21 13 00-0044	LF	#9,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	6.68	
				<i>For Up To 100, Add</i>	4.07	
				<i>For >100 To 200, Add</i>	2.32	
				<i>For >200 To 400, Add</i>	1.10	
03 21 13 00-0045	LF	#10,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	8.21	
				<i>For Up To 100, Add</i>	4.10	
				<i>For >100 To 200, Add</i>	2.19	
				<i>For >200 To 300, Add</i>	1.09	
03 21 13 00-0046	LF	#11,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	9.82	
				<i>For Up To 100, Add</i>	4.97	
				<i>For >100 To 200, Add</i>	2.64	
				<i>For >200 To 300, Add</i>	1.32	
03 21 13 00-0047	LF	#14,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	13.71	
				<i>For Up To 100, Add</i>	7.03	
				<i>For >100 To 200, Add</i>	3.71	
				<i>For >200 To 300, Add</i>	1.86	
03 21 13 00-0048	LF	#18,		Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	23.57	
				<i>For Up To 100, Add</i>	12.26	
				<i>For >100 To 200, Add</i>	6.44	
				<i>For >200 To 300, Add</i>	3.22	
03 21 13 00-0049	LF	#6,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	3.39	
				<i>For Up To 100, Add</i>	2.56	
				<i>For >100 To 200, Add</i>	1.35	
				<i>For >200 To 500, Add</i>	0.54	
03 21 13 00-0050	LF	#7,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	4.43	
				<i>For Up To 100, Add</i>	2.64	
				<i>For >100 To 200, Add</i>	1.52	
				<i>For >200 To 400, Add</i>	0.72	
03 21 13 00-0051	LF	#8,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	5.56	
				<i>For Up To 100, Add</i>	3.37	
				<i>For >100 To 200, Add</i>	1.92	
				<i>For >200 To 400, Add</i>	0.91	
03 21 13 00-0052	LF	#9,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	6.88	
				<i>For Up To 100, Add</i>	4.22	
				<i>For >100 To 200, Add</i>	2.40	
				<i>For >200 To 400, Add</i>	1.14	
03 21 13 00-0053	LF	#10,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	8.46	
				<i>For Up To 100, Add</i>	4.25	
				<i>For >100 To 200, Add</i>	2.26	
				<i>For >200 To 300, Add</i>	1.13	
03 21 13 00-0054	LF	#11,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	10.13	
				<i>For Up To 100, Add</i>	5.16	
				<i>For >100 To 200, Add</i>	2.73	
				<i>For >200 To 300, Add</i>	1.37	
03 21 13 00-0055	LF	#14,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	14.15	
				<i>For Up To 100, Add</i>	7.29	
				<i>For >100 To 200, Add</i>	3.85	
				<i>For >200 To 300, Add</i>	1.92	
03 21 13 00-0056	LF	#18,		Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	24.36	
				<i>For Up To 100, Add</i>	12.73	
				<i>For >100 To 200, Add</i>	6.68	
				<i>For >200 To 300, Add</i>	3.34	
03 21 13 00-0057	Footings, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>					
	Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0058	LF	#3,		Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	0.78	
				<i>For Up To 100, Add</i>	0.58	
				<i>For >100 To 200, Add</i>	0.31	
				<i>For >200 To 500, Add</i>	0.12	
03 21 13 00-0059	LF	#4,		Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	1.34	
				<i>For Up To 100, Add</i>	1.00	
				<i>For >100 To 200, Add</i>	0.53	
				<i>For >200 To 500, Add</i>	0.21	
03 21 13 00-0060	LF	#5,		Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	2.05	
				<i>For Up To 100, Add</i>	1.55	
				<i>For >100 To 200, Add</i>	0.82	
				<i>For >200 To 500, Add</i>	0.33	
03 21 13 00-0061	LF	#6,		Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	2.84	
				<i>For Up To 100, Add</i>	2.19	
				<i>For >100 To 200, Add</i>	1.15	
				<i>For >200 To 500, Add</i>	0.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.80	
			For Up To 100, Add	0.60	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21	13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.37	
			For Up To 100, Add	1.03	
			For >100 To 200, Add	0.55	
			For >200 To 500, Add	0.22	
03 21	13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.09	
			For Up To 100, Add	1.59	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.34	
03 21	13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.90	
			For Up To 100, Add	2.25	
			For >100 To 200, Add	1.18	
			For >200 To 500, Add	0.47	
03 21	13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.82	
			For Up To 100, Add	0.62	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	
03 21	13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.41	
			For Up To 100, Add	1.07	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21	13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.16	
			For Up To 100, Add	1.66	
			For >100 To 200, Add	0.87	
			For >200 To 500, Add	0.35	
03 21	13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.99	
			For Up To 100, Add	2.34	
			For >100 To 200, Add	1.23	
			For >200 To 500, Add	0.49	
03 21	13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.93	
			For Up To 100, Add	2.42	
			For >100 To 200, Add	1.37	
			For >200 To 400, Add	0.65	
03 21	13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.95	
			For Up To 100, Add	3.09	
			For >100 To 200, Add	1.75	
			For >200 To 400, Add	0.83	
03 21	13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	6.14	
			For Up To 100, Add	3.88	
			For >100 To 200, Add	2.18	
			For >200 To 400, Add	1.05	
03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.58	
			For Up To 100, Add	3.92	
			For >100 To 200, Add	2.06	
			For >200 To 300, Add	1.03	
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.13	
			For Up To 100, Add	4.76	
			For >100 To 200, Add	2.50	
			For >200 To 300, Add	1.25	
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	12.80	
			For Up To 100, Add	6.76	
			For >100 To 200, Add	3.53	
			For >200 To 300, Add	1.77	
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	22.14	
			For Up To 100, Add	11.83	
			For >100 To 200, Add	6.16	
			For >200 To 300, Add	3.08	
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.08	
			For Up To 100, Add	2.43	
			For >100 To 200, Add	1.27	
			For >200 To 500, Add	0.51	
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.05	
			For Up To 100, Add	2.51	
			For >100 To 200, Add	1.42	
			For >200 To 400, Add	0.68	
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.11	
			For Up To 100, Add	3.21	
			For >100 To 200, Add	1.81	
			For >200 To 400, Add	0.87	
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.34	
			For Up To 100, Add	4.03	
			For >100 To 200, Add	2.26	
			For >200 To 400, Add	1.09	
03 21	13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.83	
			For Up To 100, Add	4.07	
			For >100 To 200, Add	2.14	
			For >200 To 300, Add	1.07	
03 21	13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	9.44	
			For Up To 100, Add	4.95	
			For >100 To 200, Add	2.59	
			For >200 To 300, Add	1.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	03 21	13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....13.24			
				For Up To 100, Add	7.02		
				For >100 To 200, Add	3.66		
				For >200 To 300, Add	1.83		
	03 21	13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....22.93			
				For Up To 100, Add	12.30		
				For >100 To 200, Add	6.39		
				For >200 To 300, Add	3.20		
03 21	13 00-0085	Slab On Grade, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>					
				Note: ASTM A-767 Hot Dipped Galvanized Steel.			
	03 21	13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....0.76			
				For Up To 100, Add	0.57		
				For >100 To 200, Add	0.30		
				For >200 To 500, Add	0.12		
	03 21	13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....1.31			
				For Up To 100, Add	0.99		
				For >100 To 200, Add	0.52		
				For >200 To 500, Add	0.21		
	03 21	13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....1.99			
				For Up To 100, Add	1.53		
				For >100 To 200, Add	0.80		
				For >200 To 500, Add	0.32		
	03 21	13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....2.77			
				For Up To 100, Add	2.16		
				For >100 To 200, Add	1.13		
				For >200 To 500, Add	0.45		
	03 21	13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....0.78			
				For Up To 100, Add	0.59		
				For >100 To 200, Add	0.31		
				For >200 To 500, Add	0.12		
	03 21	13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....1.34			
				For Up To 100, Add	1.02		
				For >100 To 200, Add	0.54		
				For >200 To 500, Add	0.22		
	03 21	13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....2.03			
				For Up To 100, Add	1.57		
				For >100 To 200, Add	0.82		
				For >200 To 500, Add	0.33		
	03 21	13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....2.83			
				For Up To 100, Add	2.22		
				For >100 To 200, Add	1.16		
				For >200 To 500, Add	0.47		
	03 21	13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....0.80			
				For Up To 100, Add	0.61		
				For >100 To 200, Add	0.32		
				For >200 To 500, Add	0.13		
	03 21	13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....1.38			
				For Up To 100, Add	1.06		
				For >100 To 200, Add	0.56		
				For >200 To 500, Add	0.22		
	03 21	13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....2.10			
				For Up To 100, Add	1.64		
				For >100 To 200, Add	0.86		
				For >200 To 500, Add	0.34		
	03 21	13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....2.92			
				For Up To 100, Add	2.31		
				For >100 To 200, Add	1.21		
				For >200 To 500, Add	0.48		
	03 21	13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....3.85			
				For Up To 100, Add	2.39		
				For >100 To 200, Add	1.35		
				For >200 To 400, Add	0.65		
	03 21	13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....4.85			
				For Up To 100, Add	3.05		
				For >100 To 200, Add	1.72		
				For >200 To 400, Add	0.82		
	03 21	13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....6.03			
				For Up To 100, Add	3.84		
				For >100 To 200, Add	2.16		
				For >200 To 400, Add	1.04		
	03 21	13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....7.45			
				For Up To 100, Add	3.88		
				For >100 To 200, Add	2.04		
				For >200 To 300, Add	1.02		
	03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....9.00			
				For Up To 100, Add	4.73		
				For >100 To 200, Add	2.48		
				For >200 To 300, Add	1.24		
	03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....12.61			
				For Up To 100, Add	6.70		
				For >100 To 200, Add	3.49		
				For >200 To 300, Add	1.75		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	21.86	
			For Up To 100, Add	11.74	
			For >100 To 200, Add	6.10	
			For >200 To 300, Add	3.05	
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.01	
			For Up To 100, Add	2.40	
			For >100 To 200, Add	1.25	
			For >200 To 500, Add	0.50	
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.97	
			For Up To 100, Add	2.48	
			For >100 To 200, Add	1.40	
			For >200 To 400, Add	0.67	
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.01	
			For Up To 100, Add	3.17	
			For >100 To 200, Add	1.79	
			For >200 To 400, Add	0.86	
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	6.23	
			For Up To 100, Add	3.99	
			For >100 To 200, Add	2.24	
			For >200 To 400, Add	1.08	
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.70	
			For Up To 100, Add	4.03	
			For >100 To 200, Add	2.11	
			For >200 To 300, Add	1.06	
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.31	
			For Up To 100, Add	4.91	
			For >100 To 200, Add	2.57	
			For >200 To 300, Add	1.28	
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	13.05	
			For Up To 100, Add	6.96	
			For >100 To 200, Add	3.63	
			For >200 To 300, Add	1.81	
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	22.65	
			For Up To 100, Add	12.22	
			For >100 To 200, Add	6.34	
			For >200 To 300, Add	3.17	
03 21	13 00-0113		Elevated Slabs, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.72	
			For Up To 100, Add	0.55	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.12	
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.24	
			For Up To 100, Add	0.96	
			For >100 To 200, Add	0.51	
			For >200 To 500, Add	0.20	
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.89	
			For Up To 100, Add	1.49	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.65	
			For Up To 100, Add	2.12	
			For >100 To 200, Add	1.10	
			For >200 To 500, Add	0.44	
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.74	
			For Up To 100, Add	0.57	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.27	
			For Up To 100, Add	0.99	
			For >100 To 200, Add	0.52	
			For >200 To 500, Add	0.21	
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.93	
			For Up To 100, Add	1.53	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.71	
			For Up To 100, Add	2.18	
			For >100 To 200, Add	1.13	
			For >200 To 500, Add	0.45	
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.76	
			For Up To 100, Add	0.59	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21	13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.31	
			For Up To 100, Add	1.03	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21	13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.00	
			For Up To 100, Add	1.60	
			For >100 To 200, Add	0.83	
			For >200 To 500, Add	0.33	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
03 21	13 00-0125	LF	#6,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 2.80			
				For Up To 100, Add	2.27		
				For >100 To 200, Add	1.18		
				For >200 To 500, Add	0.47		
03 21	13 00-0126	LF	#7,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 3.70			
				For Up To 100, Add	2.34		
				For >100 To 200, Add	1.32		
				For >200 To 400, Add	0.63		
03 21	13 00-0127	LF	#8,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 4.66			
				For Up To 100, Add	2.99		
				For >100 To 200, Add	1.67		
				For >200 To 400, Add	0.81		
03 21	13 00-0128	LF	#9,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 5.82			
				For Up To 100, Add	3.77		
				For >100 To 200, Add	2.10		
				For >200 To 400, Add	1.01		
03 21	13 00-0129	LF	#10,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 7.21			
				For Up To 100, Add	3.80		
				For >100 To 200, Add	1.99		
				For >200 To 300, Add	0.99		
03 21	13 00-0130	LF	#11,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 8.70			
				For Up To 100, Add	4.64		
				For >100 To 200, Add	2.42		
				For >200 To 300, Add	1.21		
03 21	13 00-0131	LF	#14,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 12.26			
				For Up To 100, Add	6.59		
				For >100 To 200, Add	3.42		
				For >200 To 300, Add	1.71		
03 21	13 00-0132	LF	#18,	Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar 21.29			
				For Up To 100, Add	11.57		
				For >100 To 200, Add	5.99		
				For >200 To 300, Add	2.99		
03 21	13 00-0133	LF	#6,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 2.89			
				For Up To 100, Add	2.36		
				For >100 To 200, Add	1.22		
				For >200 To 500, Add	0.49		
03 21	13 00-0134	LF	#7,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 3.82			
				For Up To 100, Add	2.43		
				For >100 To 200, Add	1.36		
				For >200 To 400, Add	0.65		
03 21	13 00-0135	LF	#8,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 4.82			
				For Up To 100, Add	3.11		
				For >100 To 200, Add	1.74		
				For >200 To 400, Add	0.84		
03 21	13 00-0136	LF	#9,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 6.02			
				For Up To 100, Add	3.92		
				For >100 To 200, Add	2.18		
				For >200 To 400, Add	1.05		
03 21	13 00-0137	LF	#10,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 7.46			
				For Up To 100, Add	3.95		
				For >100 To 200, Add	2.06		
				For >200 To 300, Add	1.03		
03 21	13 00-0138	LF	#11,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 9.01			
				For Up To 100, Add	4.82		
				For >100 To 200, Add	2.51		
				For >200 To 300, Add	1.25		
03 21	13 00-0139	LF	#14,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 12.70			
				For Up To 100, Add	6.86		
				For >100 To 200, Add	3.56		
				For >200 To 300, Add	1.78		
03 21	13 00-0140	LF	#18,	Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar 22.08			
				For Up To 100, Add	12.05		
				For >100 To 200, Add	6.22		
				For >200 To 300, Add	3.11		
03 21	13 00-0141	Walls, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>					
		Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21	13 00-0142	LF	#3,	Grade 40, Walls, Galvanized Steel Reinforcement Bar 0.70			
				For Up To 100, Add	0.54		
				For >100 To 200, Add	0.29		
				For >200 To 500, Add	0.11		
03 21	13 00-0143	LF	#4,	Grade 40, Walls, Galvanized Steel Reinforcement Bar 1.21			
				For Up To 100, Add	0.95		
				For >100 To 200, Add	0.50		
				For >200 To 500, Add	0.20		
03 21	13 00-0144	LF	#5,	Grade 40, Walls, Galvanized Steel Reinforcement Bar 1.84			
				For Up To 100, Add	1.47		
				For >100 To 200, Add	0.77		
				For >200 To 500, Add	0.31		
03 21	13 00-0145	LF	#6,	Grade 40, Walls, Galvanized Steel Reinforcement Bar 2.59			
				For Up To 100, Add	2.09		
				For >100 To 200, Add	1.09		
				For >200 To 500, Add	0.44		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.72	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21	13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.24	
			For Up To 100, Add	0.98	
			For >100 To 200, Add	0.51	
			For >200 To 500, Add	0.21	
03 21	13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.88	
			For Up To 100, Add	1.51	
			For >100 To 200, Add	0.79	
			For >200 To 500, Add	0.31	
03 21	13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.65	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.12	
			For >200 To 500, Add	0.45	
03 21	13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.74	
			For Up To 100, Add	0.58	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.28	
			For Up To 100, Add	1.02	
			For >100 To 200, Add	0.53	
			For >200 To 500, Add	0.21	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.95	
			For Up To 100, Add	1.58	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.74	
			For Up To 100, Add	2.24	
			For >100 To 200, Add	1.16	
			For >200 To 500, Add	0.47	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.61	
			For Up To 100, Add	2.30	
			For >100 To 200, Add	1.29	
			For >200 To 400, Add	0.62	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.58	
			For Up To 100, Add	2.96	
			For >100 To 200, Add	1.65	
			For >200 To 400, Add	0.80	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.72	
			For Up To 100, Add	3.73	
			For >100 To 200, Add	2.08	
			For >200 To 400, Add	1.00	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	7.09	
			For Up To 100, Add	3.77	
			For >100 To 200, Add	1.97	
			For >200 To 300, Add	0.98	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	8.57	
			For Up To 100, Add	4.60	
			For >100 To 200, Add	2.39	
			For >200 To 300, Add	1.19	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	12.08	
			For Up To 100, Add	6.54	
			For >100 To 200, Add	3.39	
			For >200 To 300, Add	1.69	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	21.01	
			For Up To 100, Add	11.49	
			For >100 To 200, Add	5.93	
			For >200 To 300, Add	2.97	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.83	
			For Up To 100, Add	2.33	
			For >100 To 200, Add	1.21	
			For >200 To 500, Add	0.48	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.73	
			For Up To 100, Add	2.39	
			For >100 To 200, Add	1.34	
			For >200 To 400, Add	0.65	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.74	
			For Up To 100, Add	3.08	
			For >100 To 200, Add	1.72	
			For >200 To 400, Add	0.83	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.92	
			For Up To 100, Add	3.88	
			For >100 To 200, Add	2.16	
			For >200 To 400, Add	1.04	
03 21	13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	7.34	
			For Up To 100, Add	3.92	
			For >100 To 200, Add	2.04	
			For >200 To 300, Add	1.02	
03 21	13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.88	
			For Up To 100, Add	4.78	
			For >100 To 200, Add	2.48	
			For >200 To 300, Add	1.24	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	12.52	
For Up To 100, Add	6.80	
For >100 To 200, Add	3.52	
For >200 To 300, Add	1.76	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	21.80	
For Up To 100, Add	11.96	
For >100 To 200, Add	6.17	
For >200 To 300, Add	3.08	
 03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)		
03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.83	
For Up To 100, Add	0.58	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.13	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.41	
For Up To 100, Add	1.01	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.22	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.14	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.83	
For >200 To 500, Add	0.33	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.96	
For Up To 100, Add	2.20	
For >100 To 200, Add	1.17	
For >200 To 500, Add	0.47	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.85	
For Up To 100, Add	0.60	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.44	
For Up To 100, Add	1.04	
For >100 To 200, Add	0.56	
For >200 To 500, Add	0.22	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.18	
For Up To 100, Add	1.60	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.02	
For Up To 100, Add	2.26	
For >100 To 200, Add	1.20	
For >200 To 500, Add	0.48	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.87	
For Up To 100, Add	0.62	
For >100 To 200, Add	0.33	
For >200 To 500, Add	0.13	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.48	
For Up To 100, Add	1.08	
For >100 To 200, Add	0.58	
For >200 To 500, Add	0.23	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.24	
For Up To 100, Add	1.66	
For >100 To 200, Add	0.88	
For >200 To 500, Add	0.35	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.10	
For Up To 100, Add	2.34	
For >100 To 200, Add	1.24	
For >200 To 500, Add	0.49	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.07	
For Up To 100, Add	2.43	
For >100 To 200, Add	1.39	
For >200 To 400, Add	0.66	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.11	
For Up To 100, Add	3.10	
For >100 To 200, Add	1.77	
For >200 To 400, Add	0.84	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.32	
For Up To 100, Add	3.88	
For >100 To 200, Add	2.21	
For >200 To 400, Add	1.05	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.78	
For Up To 100, Add	3.92	
For >100 To 200, Add	2.08	
For >200 To 300, Add	1.04	
03 21 16 00-0018 LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.32	
For Up To 100, Add	4.75	
For >100 To 200, Add	2.52	
For >200 To 300, Add	1.26	
03 21 16 00-0019 LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	13.01	
For Up To 100, Add	6.72	
For >100 To 200, Add	3.54	
For >200 To 300, Add	1.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	22.41	
			For Up To 100, Add	11.73	
			For >100 To 200, Add	6.15	
			For >200 To 300, Add	3.08	
03 21 16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.19	
			For Up To 100, Add	2.43	
			For >100 To 200, Add	1.28	
			For >200 To 500, Add	0.51	
03 21 16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.19	
			For Up To 100, Add	2.52	
			For >100 To 200, Add	1.44	
			For >200 To 400, Add	0.68	
03 21 16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.26	
			For Up To 100, Add	3.21	
			For >100 To 200, Add	1.83	
			For >200 To 400, Add	0.87	
03 21 16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.52	
			For Up To 100, Add	4.03	
			For >100 To 200, Add	2.29	
			For >200 To 400, Add	1.09	
03 21 16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.03	
			For Up To 100, Add	4.07	
			For >100 To 200, Add	2.16	
			For >200 To 300, Add	1.08	
03 21 16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.63	
			For Up To 100, Add	4.94	
			For >100 To 200, Add	2.61	
			For >200 To 300, Add	1.30	
03 21 16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	13.45	
			For Up To 100, Add	6.98	
			For >100 To 200, Add	3.67	
			For >200 To 300, Add	1.84	
03 21 16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	23.20	
			For Up To 100, Add	12.20	
			For >100 To 200, Add	6.39	
			For >200 To 300, Add	3.19	
03 21 16 00-0029			Columns, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.86	
			For Up To 100, Add	0.60	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21 16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.49	
			For Up To 100, Add	1.05	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.23	
			For Up To 100, Add	1.60	
			For >100 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
03 21 16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	3.09	
			For Up To 100, Add	2.26	
			For >100 To 200, Add	1.20	
			For >200 To 500, Add	0.48	
03 21 16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.88	
			For Up To 100, Add	0.62	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	
03 21 16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.52	
			For Up To 100, Add	1.08	
			For >100 To 200, Add	0.58	
			For >200 To 500, Add	0.23	
03 21 16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.27	
			For Up To 100, Add	1.64	
			For >100 To 200, Add	0.87	
			For >200 To 500, Add	0.35	
03 21 16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.15	
			For Up To 100, Add	2.32	
			For >100 To 200, Add	1.23	
			For >200 To 500, Add	0.49	
03 21 16 00-0038	LF		#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.90	
			For Up To 100, Add	0.64	
			For >100 To 200, Add	0.34	
			For >200 To 500, Add	0.14	
03 21 16 00-0039	LF		#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.56	
			For Up To 100, Add	1.12	
			For >100 To 200, Add	0.60	
			For >200 To 500, Add	0.24	
03 21 16 00-0040	LF		#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.33	
			For Up To 100, Add	1.70	
			For >100 To 200, Add	0.90	
			For >200 To 500, Add	0.36	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.23	
For Up To 100, Add	2.40	
For >100 To 200, Add	1.27	
For >200 To 500, Add	0.51	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.22	
For Up To 100, Add	2.48	
For >100 To 200, Add	1.43	
For >200 To 400, Add	0.67	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.29	
For Up To 100, Add	3.16	
For >100 To 200, Add	1.81	
For >200 To 400, Add	0.86	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	6.53	
For Up To 100, Add	3.95	
For >100 To 200, Add	2.26	
For >200 To 400, Add	1.07	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	8.02	
For Up To 100, Add	3.99	
For >100 To 200, Add	2.13	
For >200 To 300, Add	1.07	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	9.59	
For Up To 100, Add	4.83	
For >100 To 200, Add	2.57	
For >200 To 300, Add	1.29	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	13.38	
For Up To 100, Add	6.83	
For >100 To 200, Add	3.62	
For >200 To 300, Add	1.81	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	22.98	
For Up To 100, Add	11.90	
For >100 To 200, Add	6.27	
For >200 To 300, Add	3.13	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.32	
For Up To 100, Add	2.49	
For >100 To 200, Add	1.31	
For >200 To 500, Add	0.53	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.34	
For Up To 100, Add	2.57	
For >100 To 200, Add	1.48	
For >200 To 400, Add	0.70	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	5.44	
For Up To 100, Add	3.28	
For >100 To 200, Add	1.87	
For >200 To 400, Add	0.89	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.73	
For Up To 100, Add	4.10	
For >100 To 200, Add	2.34	
For >200 To 400, Add	1.11	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	8.27	
For Up To 100, Add	4.14	
For >100 To 200, Add	2.21	
For >200 To 300, Add	1.10	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	9.90	
For Up To 100, Add	5.02	
For >100 To 200, Add	2.66	
For >200 To 300, Add	1.33	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	13.82	
For Up To 100, Add	7.10	
For >100 To 200, Add	3.75	
For >200 To 300, Add	1.87	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	23.77	
For Up To 100, Add	12.38	
For >100 To 200, Add	6.50	
For >200 To 300, Add	3.25	
03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0058 LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	0.76	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0059 LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	1.31	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 16 00-0060 LF #5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.01	
For Up To 100, Add	1.51	
For >100 To 200, Add	0.80	
For >200 To 500, Add	0.32	
03 21 16 00-0061 LF #6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	2.78	
For Up To 100, Add	2.13	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.78	
		For Up To 100, Add		0.58	
		For >100 To 200, Add		0.31	
		For >200 To 500, Add		0.12	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.34	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.05	
		For Up To 100, Add		1.55	
		For >100 To 200, Add		0.82	
		For >200 To 500, Add		0.33	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.84	
		For Up To 100, Add		2.19	
		For >100 To 200, Add		1.15	
		For >200 To 500, Add		0.46	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.80	
		For Up To 100, Add		0.60	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.38	
		For Up To 100, Add		1.04	
		For >100 To 200, Add		0.55	
		For >200 To 500, Add		0.22	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.11	
		For Up To 100, Add		1.61	
		For >100 To 200, Add		0.85	
		For >200 To 500, Add		0.34	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.92	
		For Up To 100, Add		2.27	
		For >100 To 200, Add		1.19	
		For >200 To 500, Add		0.48	
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.84	
		For Up To 100, Add		2.35	
		For >100 To 200, Add		1.34	
		For >200 To 400, Add		0.64	
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.84	
		For Up To 100, Add		3.01	
		For >100 To 200, Add		1.70	
		For >200 To 400, Add		0.81	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.99	
		For Up To 100, Add		3.76	
		For >100 To 200, Add		2.12	
		For >200 To 400, Add		1.02	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.39	
		For Up To 100, Add		3.80	
		For >100 To 200, Add		2.01	
		For >200 To 300, Add		1.00	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	8.90	
		For Up To 100, Add		4.63	
		For >100 To 200, Add		2.43	
		For >200 To 300, Add		1.22	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	12.47	
		For Up To 100, Add		6.56	
		For >100 To 200, Add		3.43	
		For >200 To 300, Add		1.72	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	21.55	
		For Up To 100, Add		11.47	
		For >100 To 200, Add		5.98	
		For >200 To 300, Add		2.99	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.01	
		For Up To 100, Add		2.36	
		For >100 To 200, Add		1.24	
		For >200 To 500, Add		0.49	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.96	
		For Up To 100, Add		2.44	
		For >100 To 200, Add		1.38	
		For >200 To 400, Add		0.66	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.99	
		For Up To 100, Add		3.12	
		For >100 To 200, Add		1.76	
		For >200 To 400, Add		0.84	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	6.19	
		For Up To 100, Add		3.91	
		For >100 To 200, Add		2.20	
		For >200 To 400, Add		1.06	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.64	
		For Up To 100, Add		3.95	
		For >100 To 200, Add		2.08	
		For >200 To 300, Add		1.04	
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	9.21	
		For Up To 100, Add		4.81	
		For >100 To 200, Add		2.53	
		For >200 To 300, Add		1.26	
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	12.91	
		For Up To 100, Add		6.82	
		For >100 To 200, Add		3.57	
		For >200 To 300, Add		1.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	22.34	
<i>For Up To 100, Add</i>	11.95	
<i>For >100 To 200, Add</i>	6.22	
<i>For >200 To 300, Add</i>	3.11	
03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.74	
<i>For Up To 100, Add</i>	0.55	
<i>For >100 To 200, Add</i>	0.29	
<i>For >200 To 500, Add</i>	0.12	
03 21 16 00-0087 LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.28	
<i>For Up To 100, Add</i>	0.96	
<i>For >100 To 200, Add</i>	0.51	
<i>For >200 To 500, Add</i>	0.20	
03 21 16 00-0088 LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.95	
<i>For Up To 100, Add</i>	1.49	
<i>For >100 To 200, Add</i>	0.78	
<i>For >200 To 500, Add</i>	0.31	
03 21 16 00-0089 LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.71	
<i>For Up To 100, Add</i>	2.10	
<i>For >100 To 200, Add</i>	1.10	
<i>For >200 To 500, Add</i>	0.44	
03 21 16 00-0090 LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.76	
<i>For Up To 100, Add</i>	0.57	
<i>For >100 To 200, Add</i>	0.30	
<i>For >200 To 500, Add</i>	0.12	
03 21 16 00-0091 LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.31	
<i>For Up To 100, Add</i>	0.99	
<i>For >100 To 200, Add</i>	0.52	
<i>For >200 To 500, Add</i>	0.21	
03 21 16 00-0092 LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.99	
<i>For Up To 100, Add</i>	1.53	
<i>For >100 To 200, Add</i>	0.80	
<i>For >200 To 500, Add</i>	0.32	
03 21 16 00-0093 LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.77	
<i>For Up To 100, Add</i>	2.16	
<i>For >100 To 200, Add</i>	1.13	
<i>For >200 To 500, Add</i>	0.45	
03 21 16 00-0094 LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.78	
<i>For Up To 100, Add</i>	0.59	
<i>For >100 To 200, Add</i>	0.31	
<i>For >200 To 500, Add</i>	0.12	
03 21 16 00-0095 LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.35	
<i>For Up To 100, Add</i>	1.03	
<i>For >100 To 200, Add</i>	0.54	
<i>For >200 To 500, Add</i>	0.22	
03 21 16 00-0096 LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.05	
<i>For Up To 100, Add</i>	1.59	
<i>For >100 To 200, Add</i>	0.83	
<i>For >200 To 500, Add</i>	0.33	
03 21 16 00-0097 LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.85	
<i>For Up To 100, Add</i>	2.24	
<i>For >100 To 200, Add</i>	1.17	
<i>For >200 To 500, Add</i>	0.47	
03 21 16 00-0098 LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.76	
<i>For Up To 100, Add</i>	2.32	
<i>For >100 To 200, Add</i>	1.32	
<i>For >200 To 400, Add</i>	0.63	
03 21 16 00-0099 LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.74	
<i>For Up To 100, Add</i>	2.97	
<i>For >100 To 200, Add</i>	1.68	
<i>For >200 To 400, Add</i>	0.80	
03 21 16 00-0100 LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.88	
<i>For Up To 100, Add</i>	3.73	
<i>For >100 To 200, Add</i>	2.10	
<i>For >200 To 400, Add</i>	1.01	
03 21 16 00-0101 LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.26	
<i>For Up To 100, Add</i>	3.76	
<i>For >100 To 200, Add</i>	1.98	
<i>For >200 To 300, Add</i>	0.99	
03 21 16 00-0102 LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.77	
<i>For Up To 100, Add</i>	4.59	
<i>For >100 To 200, Add</i>	2.41	
<i>For >200 To 300, Add</i>	1.20	
03 21 16 00-0103 LF #14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	12.28	
<i>For Up To 100, Add</i>	6.50	
<i>For >100 To 200, Add</i>	3.40	
<i>For >200 To 300, Add</i>	1.70	
03 21 16 00-0104 LF #18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	21.27	
<i>For Up To 100, Add</i>	11.39	
<i>For >100 To 200, Add</i>	5.92	
<i>For >200 To 300, Add</i>	2.96	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.94	
		For Up To 100, Add	.....	2.33	
		For >100 To 200, Add	.....	1.22	
		For >200 To 500, Add	.....	0.49	
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	3.88	
		For Up To 100, Add	.....	2.41	
		For >100 To 200, Add	.....	1.36	
		For >200 To 400, Add	.....	0.65	
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	4.89	
		For Up To 100, Add	.....	3.08	
		For >100 To 200, Add	.....	1.74	
		For >200 To 400, Add	.....	0.83	
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	6.08	
		For Up To 100, Add	.....	3.88	
		For >100 To 200, Add	.....	2.18	
		For >200 To 400, Add	.....	1.05	
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	7.51	
		For Up To 100, Add	.....	3.91	
		For >100 To 200, Add	.....	2.06	
		For >200 To 300, Add	.....	1.03	
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	9.08	
		For Up To 100, Add	.....	4.77	
		For >100 To 200, Add	.....	2.50	
		For >200 To 300, Add	.....	1.25	
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	12.72	
		For Up To 100, Add	.....	6.77	
		For >100 To 200, Add	.....	3.53	
		For >200 To 300, Add	.....	1.76	
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	22.06	
		For Up To 100, Add	.....	11.86	
		For >100 To 200, Add	.....	6.16	
		For >200 To 300, Add	.....	3.08	
03 21 16 00-0113		Elevated Slabs, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>			
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.70	
		For Up To 100, Add	.....	0.53	
		For >100 To 200, Add	.....	0.28	
		For >200 To 500, Add	.....	0.11	
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.21	
		For Up To 100, Add	.....	0.93	
		For >100 To 200, Add	.....	0.49	
		For >200 To 500, Add	.....	0.20	
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.85	
		For Up To 100, Add	.....	1.45	
		For >100 To 200, Add	.....	0.76	
		For >200 To 500, Add	.....	0.30	
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.59	
		For Up To 100, Add	.....	2.06	
		For >100 To 200, Add	.....	1.07	
		For >200 To 500, Add	.....	0.43	
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add	.....	0.55	
		For >100 To 200, Add	.....	0.29	
		For >200 To 500, Add	.....	0.12	
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.24	
		For Up To 100, Add	.....	0.96	
		For >100 To 200, Add	.....	0.51	
		For >200 To 500, Add	.....	0.20	
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.89	
		For Up To 100, Add	.....	1.49	
		For >100 To 200, Add	.....	0.78	
		For >200 To 500, Add	.....	0.31	
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.65	
		For Up To 100, Add	.....	2.12	
		For >100 To 200, Add	.....	1.10	
		For >200 To 500, Add	.....	0.44	
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.74	
		For Up To 100, Add	.....	0.57	
		For >100 To 200, Add	.....	0.30	
		For >200 To 500, Add	.....	0.12	
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.28	
		For Up To 100, Add	.....	1.00	
		For >100 To 200, Add	.....	0.53	
		For >200 To 500, Add	.....	0.21	
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.95	
		For Up To 100, Add	.....	1.55	
		For >100 To 200, Add	.....	0.81	
		For >200 To 500, Add	.....	0.32	
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.73	
		For Up To 100, Add	.....	2.20	
		For >100 To 200, Add	.....	1.14	
		For >200 To 500, Add	.....	0.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.61	
<i>For Up To 100, Add</i>	2.27	
<i>For >100 To 200, Add</i>	1.28	
<i>For >200 To 400, Add</i>	0.61	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.55	
<i>For Up To 100, Add</i>	2.90	
<i>For >100 To 200, Add</i>	1.63	
<i>For >200 To 400, Add</i>	0.78	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.67	
<i>For Up To 100, Add</i>	3.65	
<i>For >100 To 200, Add</i>	2.04	
<i>For >200 To 400, Add</i>	0.98	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.02	
<i>For Up To 100, Add</i>	3.69	
<i>For >100 To 200, Add</i>	1.93	
<i>For >200 To 300, Add</i>	0.97	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.47	
<i>For Up To 100, Add</i>	4.50	
<i>For >100 To 200, Add</i>	2.35	
<i>For >200 To 300, Add</i>	1.17	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.93	
<i>For Up To 100, Add</i>	6.40	
<i>For >100 To 200, Add</i>	3.33	
<i>For >200 To 300, Add</i>	1.66	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	20.70	
<i>For Up To 100, Add</i>	11.22	
<i>For >100 To 200, Add</i>	5.81	
<i>For >200 To 300, Add</i>	2.90	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.82	
<i>For Up To 100, Add</i>	2.29	
<i>For >100 To 200, Add</i>	1.19	
<i>For >200 To 500, Add</i>	0.48	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.73	
<i>For Up To 100, Add</i>	2.36	
<i>For >100 To 200, Add</i>	1.33	
<i>For >200 To 400, Add</i>	0.64	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.70	
<i>For Up To 100, Add</i>	3.02	
<i>For >100 To 200, Add</i>	1.69	
<i>For >200 To 400, Add</i>	0.81	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.87	
<i>For Up To 100, Add</i>	3.80	
<i>For >100 To 200, Add</i>	2.12	
<i>For >200 To 400, Add</i>	1.02	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.27	
<i>For Up To 100, Add</i>	3.84	
<i>For >100 To 200, Add</i>	2.01	
<i>For >200 To 300, Add</i>	1.00	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.78	
<i>For Up To 100, Add</i>	4.68	
<i>For >100 To 200, Add</i>	2.44	
<i>For >200 To 300, Add</i>	1.22	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	12.37	
<i>For Up To 100, Add</i>	6.66	
<i>For >100 To 200, Add</i>	3.46	
<i>For >200 To 300, Add</i>	1.73	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	21.49	
<i>For Up To 100, Add</i>	11.69	
<i>For >100 To 200, Add</i>	6.05	
<i>For >200 To 300, Add</i>	3.02	
03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.68	
<i>For Up To 100, Add</i>	0.52	
<i>For >100 To 200, Add</i>	0.28	
<i>For >200 To 500, Add</i>	0.11	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.18	
<i>For Up To 100, Add</i>	0.92	
<i>For >100 To 200, Add</i>	0.48	
<i>For >200 To 500, Add</i>	0.19	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.80	
<i>For Up To 100, Add</i>	1.43	
<i>For >100 To 200, Add</i>	0.75	
<i>For >200 To 500, Add</i>	0.30	
03 21 16 00-0145 LF #6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.53	
<i>For Up To 100, Add</i>	2.03	
<i>For >100 To 200, Add</i>	1.06	
<i>For >200 To 500, Add</i>	0.42	
03 21 16 00-0146 LF #3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.70	
<i>For Up To 100, Add</i>	0.54	
<i>For >100 To 200, Add</i>	0.29	
<i>For >200 To 500, Add</i>	0.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.21	
			For Up To 100, Add	0.95	
			For >100 To 200, Add	0.50	
			For >200 To 500, Add	0.20	
03 21	16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.84	
			For Up To 100, Add	1.47	
			For >100 To 200, Add	0.77	
			For >200 To 500, Add	0.31	
03 21	16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.59	
			For Up To 100, Add	2.09	
			For >100 To 200, Add	1.09	
			For >200 To 500, Add	0.44	
03 21	16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.72	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21	16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.25	
			For Up To 100, Add	0.99	
			For >100 To 200, Add	0.52	
			For >200 To 500, Add	0.21	
03 21	16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.90	
			For Up To 100, Add	1.53	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21	16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.67	
			For Up To 100, Add	2.17	
			For >100 To 200, Add	1.13	
			For >200 To 500, Add	0.45	
03 21	16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.52	
			For Up To 100, Add	2.24	
			For >100 To 200, Add	1.26	
			For >200 To 400, Add	0.60	
03 21	16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.47	
			For Up To 100, Add	2.88	
			For >100 To 200, Add	1.61	
			For >200 To 400, Add	0.78	
03 21	16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.57	
			For Up To 100, Add	3.62	
			For >100 To 200, Add	2.02	
			For >200 To 400, Add	0.97	
03 21	16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.90	
			For Up To 100, Add	3.65	
			For >100 To 200, Add	1.91	
			For >200 To 300, Add	0.95	
03 21	16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.34	
			For Up To 100, Add	4.46	
			For >100 To 200, Add	2.32	
			For >200 To 300, Add	1.16	
03 21	16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.75	
			For Up To 100, Add	6.34	
			For >100 To 200, Add	3.29	
			For >200 To 300, Add	1.64	
03 21	16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	20.42	
			For Up To 100, Add	11.13	
			For >100 To 200, Add	5.75	
			For >200 To 300, Add	2.88	
03 21	16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.76	
			For Up To 100, Add	2.26	
			For >100 To 200, Add	1.17	
			For >200 To 500, Add	0.47	
03 21	16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.64	
			For Up To 100, Add	2.33	
			For >100 To 200, Add	1.30	
			For >200 To 400, Add	0.63	
03 21	16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.62	
			For Up To 100, Add	2.99	
			For >100 To 200, Add	1.67	
			For >200 To 400, Add	0.81	
03 21	16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.77	
			For Up To 100, Add	3.77	
			For >100 To 200, Add	2.10	
			For >200 To 400, Add	1.01	
03 21	16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.15	
			For Up To 100, Add	3.80	
			For >100 To 200, Add	1.98	
			For >200 To 300, Add	0.99	
03 21	16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.65	
			For Up To 100, Add	4.64	
			For >100 To 200, Add	2.41	
			For >200 To 300, Add	1.21	
03 21	16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	12.19	
			For Up To 100, Add	6.61	
			For >100 To 200, Add	3.42	
			For >200 To 300, Add	1.71	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	21.21	
For Up To 100, Add	11.61	
For >100 To 200, Add	5.99	
For >200 To 300, Add	3.00	
03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels <small>(03 21 16)</small>		
Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.18	
For Up To 12" Length, Deduct	-0.49	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.05	
For Up To 12" Length, Deduct	-0.74	
For >12" To <24" Length, Deduct	-0.37	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.47	
For Up To 12" Length, Deduct	-1.10	
For >12" To <24" Length, Deduct	-0.55	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.26	
For Up To 12" Length, Deduct	-1.46	
For >12" To <24" Length, Deduct	-0.73	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	11.10	
For Up To 12" Length, Deduct	-1.99	
For >12" To <24" Length, Deduct	-0.99	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.88	
For Up To 12" Length, Deduct	-2.45	
For >12" To <24" Length, Deduct	-1.22	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	15.19	
For Up To 12" Length, Deduct	-2.96	
For >12" To <24" Length, Deduct	-1.48	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	18.28	
For Up To 12" Length, Deduct	-3.59	
For >12" To <24" Length, Deduct	-1.79	

03 22 Fabric and Grid Reinforcing (03 20)

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

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

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

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

03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.90	
For >5 Ton, Deduct	-0.13	
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.03	
For >5 Ton, Deduct	-0.15	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.19	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.43	
For >5 Ton, Deduct	-0.20	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.09	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.24	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.61	
For >5 Ton, Deduct	-0.21	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.91	
For >5 Ton, Deduct	-0.25	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	1.80	
For >5 Ton, Deduct	-0.23	

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.03	
For >5 Ton, Deduct	-0.15	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.18	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.38	
For >5 Ton, Deduct	-0.19	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.70	
For >5 Ton, Deduct	-0.22	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.26	
For >5 Ton, Deduct	-0.17	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.46	
For >5 Ton, Deduct	-0.20	
03 22 13 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.95	
For >5 Ton, Deduct	-0.25	
03 22 13 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.33	
For >5 Ton, Deduct	-0.29	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 22 13 00-0010	Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns ^(03 22 13)		
	Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	3.46	
	For >5 Ton, Deduct		-0.53

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

03 22 16 00-0001	Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs ^(03 22 16)		
	Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.01	
	For >5 Ton, Deduct		-0.14
03 22 16 00-0003	SF 6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.16	
	For >5 Ton, Deduct		-0.16
03 22 16 00-0004	SF 6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.36	
	For >5 Ton, Deduct		-0.19
03 22 16 00-0005	SF 6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.66	
	For >5 Ton, Deduct		-0.22
03 22 16 00-0006	SF 4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.24	
	For >5 Ton, Deduct		-0.17
03 22 16 00-0007	SF 4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.43	
	For >5 Ton, Deduct		-0.19
03 22 16 00-0008	SF 4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.91	
	For >5 Ton, Deduct		-0.24
03 22 16 00-0009	SF 4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.28	
	For >5 Ton, Deduct		-0.29

03 30 Cast-In-Place Concrete ⁽⁰³⁾

See CSI section 01 74 19 00-0050 for hauling over 15 miles.

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

03 30 53 00-0001	Place Concrete Duct Bank ^(03 30 53)		
03 30 53 00-0002	CY Direct Chute, Place 3,000 PSI Concrete Duct Bank	200.30	
	For 2,000 PSI Concrete, Deduct		-8.90
	For 2,500 PSI Concrete, Deduct		-4.45
	For 3,500 PSI Concrete, Add		8.24
	For 3,750 PSI Concrete, Add		11.21
	For 4,000 PSI Concrete, Add		14.18
	For 4,500 PSI Concrete, Add		16.48
	For 5,000 PSI Concrete, Add		18.79
	For 6,000 PSI Concrete, Add		44.50
	For 7,500 PSI Concrete, Add		110.52
	For White Cement Concrete, Add		19.78
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		21.43
	For High Early Strength, Type 3 ASTM C150, Add		16.48
	For Lightweight Aggregate, ASTM C330, Add		57.69
	For Up To 20, Add		14.19
	For >20 To 50, Add		5.32
	For >100 To 200, Deduct		-4.01
	For >200 To 400, Deduct		-8.01
	For >400, Deduct		-12.02

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

03 30 53 00-0004	CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	244.93	
	For 2,000 PSI Concrete, Deduct		-8.90
	For 2,500 PSI Concrete, Deduct		-4.45
	For 3,500 PSI Concrete, Add		8.24
	For 3,750 PSI Concrete, Add		11.21
	For 4,000 PSI Concrete, Add		14.18
	For 4,500 PSI Concrete, Add		16.48
	For 5,000 PSI Concrete, Add		18.79
	For 6,000 PSI Concrete, Add		44.51
	For 7,500 PSI Concrete, Add		110.53
	For White Cement Concrete, Add		19.78
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		21.43
	For High Early Strength, Type 3 ASTM C150, Add		16.48
	For Lightweight Aggregate, ASTM C330, Add		57.69

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

03 30 53 00-0006	CY Direct Chute, Place Two Sack Cement, Concrete Slurry	186.64	
	Note: Two 94# sack cement per CY.		
03 30 53 00-0007	CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	179.56	
	Note: Two 94# sack cement per CY. Excludes pumping equipment.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0008 Hand Mix And Place Concrete <small>(03 30 53)</small>		
03 30 53 00-0009 CF Hand Mix And Place 3,000 PSI Concrete.....	19.97	
Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.		
For Up To 25 CF, Add	2.35	
For 2,000 PSI Concrete, Deduct	-0.38	
For 2,500 PSI Concrete, Deduct	-0.19	
For 3,500 PSI Concrete, Add	0.35	
 03 31 Structural Concrete <small>(03 30)</small>		
03 31 13 Heavyweight Structural Concrete <small>(03 31)</small>		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies <small>(03 31 13)</small>		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies <small>(03 31 13 00-0001)</small>		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	8.06	
For 2,000 PSI Concrete, Deduct	-0.22	
For 2,500 PSI Concrete, Deduct	-0.11	
For 3,500 PSI Concrete, Add	0.08	
For 4,000 PSI Concrete, Add	0.25	
For 4,500 PSI Concrete, Add	0.32	
For 5,000 PSI Concrete, Add	0.36	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
For Up To 500, Add	3.24	
For >500 To 1,000, Add	2.22	
For >1,000 To 2,000, Add	1.21	
For >2,000 To 5,000, Add	0.61	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000 To 35,000, Deduct	-0.40	
For >35,000 To 50,000, Deduct	-0.60	
For >50,000 To 70,000, Deduct	-0.80	
For >70,000, Deduct	-1.01	
03 31 13 00-0004 SF 5" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	8.79	
For 2,000 PSI Concrete, Deduct	-0.25	
For 2,500 PSI Concrete, Deduct	-0.12	
For 3,500 PSI Concrete, Add	0.09	
For 4,000 PSI Concrete, Add	0.29	
For 4,500 PSI Concrete, Add	0.36	
For 5,000 PSI Concrete, Add	0.41	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
For Up To 500, Add	3.45	
For >500 To 1,000, Add	2.38	
For >1,000 To 2,000, Add	1.30	
For >2,000 To 5,000, Add	0.65	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000 To 35,000, Deduct	-0.45	
For >35,000 To 50,000, Deduct	-0.67	
For >50,000 To 70,000, Deduct	-0.89	
For >70,000, Deduct	-1.11	
03 31 13 00-0005 SF 6" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	9.83	
For 2,000 PSI Concrete, Deduct	-0.29	
For 2,500 PSI Concrete, Deduct	-0.14	
For 3,500 PSI Concrete, Add	0.10	
For 4,000 PSI Concrete, Add	0.33	
For 4,500 PSI Concrete, Add	0.42	
For 5,000 PSI Concrete, Add	0.48	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
For Up To 500, Add	3.77	
For >500 To 1,000, Add	2.60	
For >1,000 To 2,000, Add	1.44	
For >2,000 To 5,000, Add	0.72	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000 To 35,000, Deduct	-0.51	
For >35,000 To 50,000, Deduct	-0.76	
For >50,000 To 70,000, Deduct	-1.00	
For >70,000, Deduct	-1.25	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0006	SF 7" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	10.82	
	For 2,000 PSI Concrete, Deduct	-0.33	
	For 2,500 PSI Concrete, Deduct	-0.16	
	For 3,500 PSI Concrete, Add	0.12	
	For 4,000 PSI Concrete, Add	0.38	
	For 4,500 PSI Concrete, Add	0.48	
	For 5,000 PSI Concrete, Add	0.56	
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
	For Up To 500, Add	4.05	
	For >500 To 1,000, Add	2.80	
	For >1,000 To 2,000, Add	1.55	
	For >2,000 To 5,000, Add	0.78	
	For >10,000 To 20,000, Deduct	-0.31	
	For >20,000 To 35,000, Deduct	-0.58	
	For >35,000 To 50,000, Deduct	-0.85	
	For >50,000 To 70,000, Deduct	-1.12	
	For >70,000, Deduct	-1.39	
03 31 13 00-0007	SF 8" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	11.67	
	For 2,000 PSI Concrete, Deduct	-0.37	
	For 2,500 PSI Concrete, Deduct	-0.18	
	For 3,500 PSI Concrete, Add	0.13	
	For 4,000 PSI Concrete, Add	0.43	
	For 4,500 PSI Concrete, Add	0.53	
	For 5,000 PSI Concrete, Add	0.62	
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
	For Up To 500, Add	4.29	
	For >500 To 1,000, Add	2.98	
	For >1,000 To 2,000, Add	1.66	
	For >2,000 To 5,000, Add	0.83	
	For >10,000 To 20,000, Deduct	-0.34	
	For >20,000 To 35,000, Deduct	-0.63	
	For >35,000 To 50,000, Deduct	-0.92	
	For >50,000 To 70,000, Deduct	-1.21	
	For >70,000, Deduct	-1.51	
03 31 13 00-0008	SF 10" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	13.83	
	For 2,000 PSI Concrete, Deduct	-0.46	
	For 2,500 PSI Concrete, Deduct	-0.23	
	For 3,500 PSI Concrete, Add	0.16	
	For 4,000 PSI Concrete, Add	0.54	
	For 4,500 PSI Concrete, Add	0.68	
	For 5,000 PSI Concrete, Add	0.78	
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
	For Up To 500, Add	4.88	
	For >500 To 1,000, Add	3.39	
	For >1,000 To 2,000, Add	1.91	
	For >2,000 To 5,000, Add	0.96	
	For >10,000 To 20,000, Deduct	-0.43	
	For >20,000 To 35,000, Deduct	-0.77	
	For >35,000 To 50,000, Deduct	-1.12	
	For >50,000 To 70,000, Deduct	-1.46	
	For >70,000, Deduct	-1.81	
03 31 13 00-0009	SF 12" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	15.50	
	For 2,000 PSI Concrete, Deduct	-0.53	
	For 2,500 PSI Concrete, Deduct	-0.27	
	For 3,500 PSI Concrete, Add	0.19	
	For 4,000 PSI Concrete, Add	0.62	
	For 4,500 PSI Concrete, Add	0.78	
	For 5,000 PSI Concrete, Add	0.90	
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.45	
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.66	
	For Up To 500, Add	5.36	
	For >500 To 1,000, Add	3.74	
	For >1,000 To 2,000, Add	2.12	
	For >2,000 To 5,000, Add	1.06	
	For >10,000 To 20,000, Deduct	-0.49	
	For >20,000 To 35,000, Deduct	-0.88	
	For >35,000 To 50,000, Deduct	-1.27	
	For >50,000 To 70,000, Deduct	-1.66	
	For >70,000, Deduct	-2.04	

03 31 13 00-0010	Concrete Delivery And Placement <small>(03 31 13)</small> Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.
03 31 13 00-0011	Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small> Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.
03 31 13 00-0012	Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	297.17	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	52.93	
For >20 To 50, Add	19.85	
For >100 To 200, Deduct	-5.94	
For >200 To 400, Deduct	-11.89	
For >400, Deduct	-17.83	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	223.73	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	23.56	
For >20 To 50, Add	8.83	
For >100 To 200, Deduct	-4.47	
For >200 To 400, Deduct	-8.95	
For >400, Deduct	-13.42	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	234.66	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	22.44	
For >20 To 50, Add	8.41	
For >100 To 200, Deduct	-4.69	
For >200 To 400, Deduct	-9.39	
For >400, Deduct	-14.08	
03 31 13 00-0016 Place Concrete Continuous Footings (03 31 13 00-0011)		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings	282.46	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	47.05	
For >20 To 50, Add	17.64	
For >100 To 200, Deduct	-5.65	
For >200 To 400, Deduct	-11.30	
For >400, Deduct	-16.95	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	217.18	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.50	
	For 7,500 PSI Concrete, Add	110.52	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	20.94	
	For >20 To 50, Add	7.85	
	For >100 To 200, Deduct	-4.34	
	For >200 To 400, Deduct	-8.69	
	For >400, Deduct	-13.03	
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	228.42	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-9.64	
	For 2,500 PSI Concrete, Deduct	-4.82	
	For 3,500 PSI Concrete, Add	8.93	
	For 3,750 PSI Concrete, Add	12.14	
	For 4,000 PSI Concrete, Add	15.36	
	For 4,500 PSI Concrete, Add	17.86	
	For 5,000 PSI Concrete, Add	20.36	
	For 6,000 PSI Concrete, Add	48.21	
	For 7,500 PSI Concrete, Add	119.73	
	For White Cement Concrete, Add	21.43	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
	For High Early Strength, Type 3 ASTM C150, Add	17.86	
	For Lightweight Aggregate, ASTM C330, Add	62.50	
	For Up To 20, Add	19.94	
	For >20 To 50, Add	7.48	
	For >100 To 200, Deduct	-4.57	
	For >200 To 400, Deduct	-9.14	
	For >400, Deduct	-13.71	
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	363.32	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.50	
	For 7,500 PSI Concrete, Add	110.52	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	79.40	
	For >20 To 50, Add	29.77	
	For >100 To 200, Deduct	-7.27	
	For >200 To 400, Deduct	-14.53	
	For >400, Deduct	-21.80	
03 31 13 00-0022	CY Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	253.17	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.50	
	For 7,500 PSI Concrete, Add	110.52	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	35.34	
	For >20 To 50, Add	13.25	
	For >100 To 200, Deduct	-5.06	
	For >200 To 400, Deduct	-10.13	
	For >400, Deduct	-15.19	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 13 00-0023	CY	Concrete Pump, Place 3,000 PSI Concrete Spread Footings	262.71
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.64
		For 2,500 PSI Concrete, Deduct	-4.82
		For 3,500 PSI Concrete, Add	8.93
		For 3,750 PSI Concrete, Add	12.14
		For 4,000 PSI Concrete, Add	15.36
		For 4,500 PSI Concrete, Add	17.86
		For 5,000 PSI Concrete, Add	20.36
		For 6,000 PSI Concrete, Add	48.21
		For 7,500 PSI Concrete, Add	119.73
		For White Cement Concrete, Add	21.43
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21
		For High Early Strength, Type 3 ASTM C150, Add	17.86
		For Lightweight Aggregate, ASTM C330, Add	62.50
		For Up To 20, Add	33.66
		For >20 To 50, Add	12.62
		For >100 To 200, Deduct	-5.25
		For >200 To 400, Deduct	-10.51
		For >400, Deduct	-15.76

03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)

03 31 13 00-0025	CY	Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	200.12
		For 2,000 PSI Concrete, Deduct	-8.90
		For 2,500 PSI Concrete, Deduct	-4.45
		For 3,500 PSI Concrete, Add	8.24
		For 3,750 PSI Concrete, Add	11.21
		For 4,000 PSI Concrete, Add	14.18
		For 4,500 PSI Concrete, Add	16.48
		For 5,000 PSI Concrete, Add	18.79
		For 6,000 PSI Concrete, Add	44.50
		For 7,500 PSI Concrete, Add	110.52
		For White Cement Concrete, Add	19.78
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43
		For High Early Strength, Type 3 ASTM C150, Add	16.48
		For Lightweight Aggregate, ASTM C330, Add	57.69
		For Up To 20, Add	14.12
		For >20 To 50, Add	5.29
		For >100 To 200, Deduct	-4.00
		For >200 To 400, Deduct	-8.00
		For >400, Deduct	-12.01

03 31 13 00-0026	CY	Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	180.53
		For 2,000 PSI Concrete, Deduct	-8.90
		For 2,500 PSI Concrete, Deduct	-4.45
		For 3,500 PSI Concrete, Add	8.24
		For 3,750 PSI Concrete, Add	11.21
		For 4,000 PSI Concrete, Add	14.18
		For 4,500 PSI Concrete, Add	16.48
		For 5,000 PSI Concrete, Add	18.79
		For 6,000 PSI Concrete, Add	44.50
		For 7,500 PSI Concrete, Add	110.52
		For White Cement Concrete, Add	19.78
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43
		For High Early Strength, Type 3 ASTM C150, Add	16.48
		For Lightweight Aggregate, ASTM C330, Add	57.69
		For Up To 20, Add	6.28
		For >20 To 50, Add	2.36
		For >100 To 200, Deduct	-3.61
		For >200 To 400, Deduct	-7.22
		For >400, Deduct	-10.83

03 31 13 00-0027	CY	Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	191.65
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.64
		For 2,500 PSI Concrete, Deduct	-4.82
		For 3,500 PSI Concrete, Add	8.93
		For 3,750 PSI Concrete, Add	12.14
		For 4,000 PSI Concrete, Add	15.36
		For 4,500 PSI Concrete, Add	17.86
		For 5,000 PSI Concrete, Add	20.36
		For 6,000 PSI Concrete, Add	48.21
		For 7,500 PSI Concrete, Add	119.73
		For White Cement Concrete, Add	21.43
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21
		For High Early Strength, Type 3 ASTM C150, Add	17.86
		For Lightweight Aggregate, ASTM C330, Add	62.50
		For Up To 20, Add	5.23
		For >20 To 50, Add	1.96
		For >100 To 200, Deduct	-3.83
		For >200 To 400, Deduct	-7.67
		For >400, Deduct	-11.50

03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0029	CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	258.94	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.51	
	For 7,500 PSI Concrete, Add	110.53	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	37.64	
	For >20 To 50, Add	14.12	
	For >100 To 200, Deduct	-5.18	
	For >200 To 400, Deduct	-10.36	
	For >400, Deduct	-15.54	
03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	206.70	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.50	
	For 7,500 PSI Concrete, Add	110.52	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	16.75	
	For >20 To 50, Add	6.28	
	For >100 To 200, Deduct	-4.13	
	For >200 To 400, Deduct	-8.27	
	For >400, Deduct	-12.40	
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	218.46	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-9.64	
	For 2,500 PSI Concrete, Deduct	-4.82	
	For 3,500 PSI Concrete, Add	8.93	
	For 3,750 PSI Concrete, Add	12.14	
	For 4,000 PSI Concrete, Add	15.36	
	For 4,500 PSI Concrete, Add	17.86	
	For 5,000 PSI Concrete, Add	20.36	
	For 6,000 PSI Concrete, Add	48.21	
	For 7,500 PSI Concrete, Add	119.73	
	For White Cement Concrete, Add	21.43	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
	For High Early Strength, Type 3 ASTM C150, Add	17.86	
	For Lightweight Aggregate, ASTM C330, Add	62.50	
	For Up To 20, Add	15.96	
	For >20 To 50, Add	5.98	
	For >100 To 200, Deduct	-4.37	
	For >200 To 400, Deduct	-8.74	
	For >400, Deduct	-13.11	
03 31 13 00-0032	Place Concrete Slab On Grade <small>(03 31 13 00-0011)</small>	261.14	
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	261.14	
	For 2,000 PSI Concrete, Deduct	-8.90	
	For 2,500 PSI Concrete, Deduct	-4.45	
	For 3,500 PSI Concrete, Add	8.24	
	For 3,750 PSI Concrete, Add	11.21	
	For 4,000 PSI Concrete, Add	14.18	
	For 4,500 PSI Concrete, Add	16.48	
	For 5,000 PSI Concrete, Add	18.79	
	For 6,000 PSI Concrete, Add	44.50	
	For 7,500 PSI Concrete, Add	110.52	
	For White Cement Concrete, Add	19.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
	For High Early Strength, Type 3 ASTM C150, Add	16.48	
	For Lightweight Aggregate, ASTM C330, Add	57.69	
	For Up To 20, Add	38.52	
	For >20 To 50, Add	14.45	
	For >100 To 200, Deduct	-5.22	
	For >200 To 400, Deduct	-10.45	
	For >400, Deduct	-15.67	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	237.91	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	29.23	
For >20 To 50, Add	10.96	
For >100 To 200, Deduct	-4.76	
For >200 To 400, Deduct	-9.52	
For >400, Deduct	-14.27	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	207.70	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	17.15	
For >20 To 50, Add	6.43	
For >100 To 200, Deduct	-4.15	
For >200 To 400, Deduct	-8.31	
For >400, Deduct	-12.46	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	197.35	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	13.01	
For >20 To 50, Add	4.88	
For >100 To 200, Deduct	-3.95	
For >200 To 400, Deduct	-7.89	
For >400, Deduct	-11.84	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	214.29	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	14.29	
For >20 To 50, Add	5.36	
For >100 To 200, Deduct	-4.29	
For >200 To 400, Deduct	-8.57	
For >400, Deduct	-12.86	



MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	205.67
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.64
		For 2,500 PSI Concrete, Deduct	-4.82
		For 3,500 PSI Concrete, Add	8.93
		For 3,750 PSI Concrete, Add	12.14
		For 4,000 PSI Concrete, Add	15.36
		For 4,500 PSI Concrete, Add	17.86
		For 5,000 PSI Concrete, Add	20.36
		For 6,000 PSI Concrete, Add	48.21
		For 7,500 PSI Concrete, Add	119.73
		For White Cement Concrete, Add	21.43
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21
		For High Early Strength, Type 3 ASTM C150, Add	17.86
		For Lightweight Aggregate, ASTM C330, Add	62.50
		For Up To 20, Add	10.84
		For >20 To 50, Add	4.07
		For >100 To 200, Deduct	-4.11
		For >200 To 400, Deduct	-8.23
		For >400, Deduct	-12.34

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

03 31 13 00-0040	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs	598.16
		For 2,000 PSI Concrete, Deduct	-8.90
		For 2,500 PSI Concrete, Deduct	-4.45
		For 3,500 PSI Concrete, Add	8.24
		For 3,750 PSI Concrete, Add	11.21
		For 4,000 PSI Concrete, Add	14.18
		For 4,500 PSI Concrete, Add	16.48
		For 5,000 PSI Concrete, Add	18.79
		For 6,000 PSI Concrete, Add	44.51
		For 7,500 PSI Concrete, Add	110.53
		For White Cement Concrete, Add	19.78
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43
		For High Early Strength, Type 3 ASTM C150, Add	16.48
		For Lightweight Aggregate, ASTM C330, Add	57.69
		For Up To 20, Add	173.33
		For >20 To 50, Add	65.00
		For >100 To 200, Deduct	-11.96
		For >200 To 400, Deduct	-23.93
		For >400, Deduct	-35.89
03 31 13 00-0041	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs	357.71
		For 2,000 PSI Concrete, Deduct	-8.90
		For 2,500 PSI Concrete, Deduct	-4.45
		For 3,500 PSI Concrete, Add	8.24
		For 3,750 PSI Concrete, Add	11.21
		For 4,000 PSI Concrete, Add	14.18
		For 4,500 PSI Concrete, Add	16.48
		For 5,000 PSI Concrete, Add	18.79
		For 6,000 PSI Concrete, Add	44.50
		For 7,500 PSI Concrete, Add	110.52
		For White Cement Concrete, Add	19.78
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43
		For High Early Strength, Type 3 ASTM C150, Add	16.48
		For Lightweight Aggregate, ASTM C330, Add	57.69
		For Up To 20, Add	77.15
		For >20 To 50, Add	28.93
		For >100 To 200, Deduct	-7.15
		For >200 To 400, Deduct	-14.31
		For >400, Deduct	-21.46
03 31 13 00-0042	CY	Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs	339.32
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-9.64
		For 2,500 PSI Concrete, Deduct	-4.82
		For 3,500 PSI Concrete, Add	8.93
		For 3,750 PSI Concrete, Add	12.14
		For 4,000 PSI Concrete, Add	15.36
		For 4,500 PSI Concrete, Add	17.86
		For 5,000 PSI Concrete, Add	20.36
		For 6,000 PSI Concrete, Add	48.21
		For 7,500 PSI Concrete, Add	119.73
		For White Cement Concrete, Add	21.43
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21
		For High Early Strength, Type 3 ASTM C150, Add	17.86
		For Lightweight Aggregate, ASTM C330, Add	62.50
		For Up To 20, Add	64.30
		For >20 To 50, Add	24.11
		For >100 To 200, Deduct	-6.79
		For >200 To 400, Deduct	-13.57
		For >400, Deduct	-20.36

03 31 13 00-0043 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)

See CSI section 03 37 16 00-0001 for concrete pump truck.

03 31 13 00-0044 Place Elevated Concrete Beams (03 31 13 00-0043)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0045 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams	400.08	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	94.10	
For >20 To 50, Add	35.29	
For >100 To 200, Deduct	-8.00	
For >200 To 400, Deduct	-16.00	
For >400, Deduct	-24.00	
03 31 13 00-0046 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	278.29	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	39.89	
For >20 To 50, Add	14.96	
For >100 To 200, Deduct	-5.57	
For >200 To 400, Deduct	-11.13	
For >400, Deduct	-16.70	
03 31 13 00-0047 Place Elevated Concrete Slab (03 31 13 00-0043)		
03 31 13 00-0048 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	275.59	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	44.30	
For >20 To 50, Add	16.61	
For >100 To 200, Deduct	-5.51	
For >200 To 400, Deduct	-11.02	
For >400, Deduct	-16.54	
03 31 13 00-0049 CY >6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab.....	248.86	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	33.61	
For >20 To 50, Add	12.60	
For >100 To 200, Deduct	-4.98	
For >200 To 400, Deduct	-9.95	
For >400, Deduct	-14.93	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	225.52	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	18.78	
		For >20 To 50, Add	7.04	
		For >100 To 200, Deduct	-4.51	
		For >200 To 400, Deduct	-9.02	
		For >400, Deduct	-13.53	
03 31 13 00-0051	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	214.19	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	14.25	
		For >20 To 50, Add	5.34	
		For >100 To 200, Deduct	-4.28	
		For >200 To 400, Deduct	-8.57	
		For >400, Deduct	-12.85	
03 31 13 00-0052		Place Concrete Columns (03 31 13 00-0043)		
03 31 13 00-0053	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns.....	418.90	
		For 2,000 PSI Concrete, Deduct	-8.90	
		For 2,500 PSI Concrete, Deduct	-4.45	
		For 3,500 PSI Concrete, Add	8.24	
		For 3,750 PSI Concrete, Add	11.21	
		For 4,000 PSI Concrete, Add	14.18	
		For 4,500 PSI Concrete, Add	16.48	
		For 5,000 PSI Concrete, Add	18.79	
		For 6,000 PSI Concrete, Add	44.51	
		For 7,500 PSI Concrete, Add	110.53	
		For White Cement Concrete, Add	19.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
		For High Early Strength, Type 3 ASTM C150, Add	16.48	
		For Lightweight Aggregate, ASTM C330, Add	57.69	
		For Up To 20, Add	101.62	
		For >20 To 50, Add	38.11	
		For >100 To 200, Deduct	-8.38	
		For >200 To 400, Deduct	-16.76	
		For >400, Deduct	-25.13	
03 31 13 00-0054	CY	18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns.....	349.50	
		For 2,000 PSI Concrete, Deduct	-8.90	
		For 2,500 PSI Concrete, Deduct	-4.45	
		For 3,500 PSI Concrete, Add	8.24	
		For 3,750 PSI Concrete, Add	11.21	
		For 4,000 PSI Concrete, Add	14.18	
		For 4,500 PSI Concrete, Add	16.48	
		For 5,000 PSI Concrete, Add	18.79	
		For 6,000 PSI Concrete, Add	44.50	
		For 7,500 PSI Concrete, Add	110.52	
		For White Cement Concrete, Add	19.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
		For High Early Strength, Type 3 ASTM C150, Add	16.48	
		For Lightweight Aggregate, ASTM C330, Add	57.69	
		For Up To 20, Add	73.87	
		For >20 To 50, Add	27.70	
		For >100 To 200, Deduct	-6.99	
		For >200 To 400, Deduct	-13.98	
		For >400, Deduct	-20.97	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0055 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	299.87	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	54.02	
For >20 To 50, Add	20.26	
For >100 To 200, Deduct	-6.00	
For >200 To 400, Deduct	-11.99	
For >400, Deduct	-17.99	
03 31 13 00-0056 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	277.76	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	45.17	
For >20 To 50, Add	16.94	
For >100 To 200, Deduct	-5.56	
For >200 To 400, Deduct	-11.11	
For >400, Deduct	-16.67	
03 31 13 00-0057 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	286.27	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	43.08	
For >20 To 50, Add	16.16	
For >100 To 200, Deduct	-5.73	
For >200 To 400, Deduct	-11.45	
For >400, Deduct	-17.18	
03 31 13 00-0058 CY 18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	256.84	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	31.31	
For >20 To 50, Add	11.74	
For >100 To 200, Deduct	-5.14	
For >200 To 400, Deduct	-10.27	
For >400, Deduct	-15.41	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0059	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	235.81	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	22.90	
		For >20 To 50, Add	8.59	
		For >100 To 200, Deduct	-4.72	
		For >200 To 400, Deduct	-9.43	
		For >400, Deduct	-14.15	
03 31 13 00-0060	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	226.43	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	19.14	
		For >20 To 50, Add	7.18	
		For >100 To 200, Deduct	-4.53	
		For >200 To 400, Deduct	-9.06	
		For >400, Deduct	-13.59	
03 31 13 00-0061		Place Concrete Walls <small>(03 31 13 00-0043)</small>		
03 31 13 00-0062	CY	Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	403.01	
		For 2,000 PSI Concrete, Deduct	-8.90	
		For 2,500 PSI Concrete, Deduct	-4.45	
		For 3,500 PSI Concrete, Add	8.24	
		For 3,750 PSI Concrete, Add	11.21	
		For 4,000 PSI Concrete, Add	14.18	
		For 4,500 PSI Concrete, Add	16.48	
		For 5,000 PSI Concrete, Add	18.79	
		For 6,000 PSI Concrete, Add	44.50	
		For 7,500 PSI Concrete, Add	110.52	
		For White Cement Concrete, Add	19.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
		For High Early Strength, Type 3 ASTM C150, Add	16.48	
		For Lightweight Aggregate, ASTM C330, Add	57.69	
		For Up To 20, Add	95.27	
		For >20 To 50, Add	35.73	
		For >100 To 200, Deduct	-8.06	
		For >200 To 400, Deduct	-16.12	
		For >400, Deduct	-24.18	
03 31 13 00-0063	CY	12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	383.27	
		For 2,000 PSI Concrete, Deduct	-8.90	
		For 2,500 PSI Concrete, Deduct	-4.45	
		For 3,500 PSI Concrete, Add	8.24	
		For 3,750 PSI Concrete, Add	11.21	
		For 4,000 PSI Concrete, Add	14.18	
		For 4,500 PSI Concrete, Add	16.48	
		For 5,000 PSI Concrete, Add	18.79	
		For 6,000 PSI Concrete, Add	44.50	
		For 7,500 PSI Concrete, Add	110.52	
		For White Cement Concrete, Add	19.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
		For High Early Strength, Type 3 ASTM C150, Add	16.48	
		For Lightweight Aggregate, ASTM C330, Add	57.69	
		For Up To 20, Add	87.38	
		For >20 To 50, Add	32.77	
		For >100 To 200, Deduct	-7.67	
		For >200 To 400, Deduct	-15.33	
		For >400, Deduct	-23.00	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0064 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	331.57	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	66.70	
For >20 To 50, Add	25.01	
For >100 To 200, Deduct	-6.63	
For >200 To 400, Deduct	-13.26	
For >400, Deduct	-19.89	
03 31 13 00-0065 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	270.83	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	42.40	
For >20 To 50, Add	15.90	
For >100 To 200, Deduct	-5.42	
For >200 To 400, Deduct	-10.83	
For >400, Deduct	-16.25	
03 31 13 00-0066 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	249.63	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	33.92	
For >20 To 50, Add	12.72	
For >100 To 200, Deduct	-4.99	
For >200 To 400, Deduct	-9.99	
For >400, Deduct	-14.98	
03 31 13 00-0067 CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	239.03	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.50	
For 7,500 PSI Concrete, Add	110.52	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	29.68	
For >20 To 50, Add	11.13	
For >100 To 200, Deduct	-4.78	
For >200 To 400, Deduct	-9.56	
For >400, Deduct	-14.34	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0068	CY	Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	279.53	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	40.38	
		For >20 To 50, Add	15.14	
		For >100 To 200, Deduct	-5.59	
		For >200 To 400, Deduct	-11.18	
		For >400, Deduct	-16.77	
03 31 13 00-0069	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	259.34	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	32.31	
		For >20 To 50, Add	12.12	
		For >100 To 200, Deduct	-5.19	
		For >200 To 400, Deduct	-10.37	
		For >400, Deduct	-15.56	
03 31 13 00-0070	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	249.24	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	28.27	
		For >20 To 50, Add	10.60	
		For >100 To 200, Deduct	-4.98	
		For >200 To 400, Deduct	-9.97	
		For >400, Deduct	-14.95	
03 31 13 00-0071		Place Elevated Concrete Stairs (03 31 13 00-0043)		
03 31 13 00-0072	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	646.36	
		For 2,000 PSI Concrete, Deduct	-8.90	
		For 2,500 PSI Concrete, Deduct	-4.45	
		For 3,500 PSI Concrete, Add	8.24	
		For 3,750 PSI Concrete, Add	11.21	
		For 4,000 PSI Concrete, Add	14.18	
		For 4,500 PSI Concrete, Add	16.48	
		For 5,000 PSI Concrete, Add	18.79	
		For 6,000 PSI Concrete, Add	44.50	
		For 7,500 PSI Concrete, Add	110.52	
		For White Cement Concrete, Add	19.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
		For High Early Strength, Type 3 ASTM C150, Add	16.48	
		For Lightweight Aggregate, ASTM C330, Add	57.69	
		For Up To 20, Add	192.61	
		For >20 To 50, Add	72.23	
		For >100 To 200, Deduct	-12.93	
		For >200 To 400, Deduct	-25.85	
		For >400, Deduct	-38.78	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0073 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	379.14	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	85.72	
For >20 To 50, Add	32.15	
For >100 To 200, Deduct	-7.58	
For >200 To 400, Deduct	-15.17	
For >400, Deduct	-22.75	
03 31 13 00-0074 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	357.16	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.64	
For 2,500 PSI Concrete, Deduct	-4.82	
For 3,500 PSI Concrete, Add	8.93	
For 3,750 PSI Concrete, Add	12.14	
For 4,000 PSI Concrete, Add	15.36	
For 4,500 PSI Concrete, Add	17.86	
For 5,000 PSI Concrete, Add	20.36	
For 6,000 PSI Concrete, Add	48.21	
For 7,500 PSI Concrete, Add	119.73	
For White Cement Concrete, Add	21.43	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
For High Early Strength, Type 3 ASTM C150, Add	17.86	
For Lightweight Aggregate, ASTM C330, Add	62.50	
For Up To 20, Add	71.44	
For >20 To 50, Add	26.79	
For >100 To 200, Deduct	-7.14	
For >200 To 400, Deduct	-14.29	
For >400, Deduct	-21.43	
03 31 13 00-0075 Place Concrete Coping (03 31 13 00-0043)		
03 31 13 00-0076 CY Crane And Bucket, Place 3,000 PSI Concrete Coping	663.01	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	199.27	
For >20 To 50, Add	74.73	
For >100 To 200, Deduct	-13.26	
For >200 To 400, Deduct	-26.52	
For >400, Deduct	-39.78	
03 31 13 00-0077 CY Direct Chute, Place 3,000 PSI Concrete Coping	377.71	
For 2,000 PSI Concrete, Deduct	-8.90	
For 2,500 PSI Concrete, Deduct	-4.45	
For 3,500 PSI Concrete, Add	8.24	
For 3,750 PSI Concrete, Add	11.21	
For 4,000 PSI Concrete, Add	14.18	
For 4,500 PSI Concrete, Add	16.48	
For 5,000 PSI Concrete, Add	18.79	
For 6,000 PSI Concrete, Add	44.51	
For 7,500 PSI Concrete, Add	110.53	
For White Cement Concrete, Add	19.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.43	
For High Early Strength, Type 3 ASTM C150, Add	16.48	
For Lightweight Aggregate, ASTM C330, Add	57.69	
For Up To 20, Add	85.15	
For >20 To 50, Add	31.93	
For >100 To 200, Deduct	-7.55	
For >200 To 400, Deduct	-15.11	
For >400, Deduct	-22.66	

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



MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

03 31 13 00-0078	CY	Concrete Pump, Place 3,000 PSI Concrete Coping	500.99	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.64	
		For 2,500 PSI Concrete, Deduct	-4.82	
		For 3,500 PSI Concrete, Add	8.93	
		For 3,750 PSI Concrete, Add	12.14	
		For 4,000 PSI Concrete, Add	15.36	
		For 4,500 PSI Concrete, Add	17.86	
		For 5,000 PSI Concrete, Add	20.36	
		For 6,000 PSI Concrete, Add	48.21	
		For 7,500 PSI Concrete, Add	119.73	
		For White Cement Concrete, Add	21.43	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.21	
		For High Early Strength, Type 3 ASTM C150, Add	17.86	
		For Lightweight Aggregate, ASTM C330, Add	62.50	
		For Up To 20, Add	128.97	
		For >20 To 50, Add	48.36	
		For >100 To 200, Deduct	-10.02	
		For >200 To 400, Deduct	-20.04	
		For >400, Deduct	-30.06	

03 31 13 00-0079 Concrete Carts (03 31 13 00-0010)

Note: Used to place concrete were necessary.

03 31 13 00-0080	CY	50' Haul, Non-Motorized, Concrete Buggy	25.20	
03 31 13 00-0081	CY	150' Haul, Non-Motorized, Concrete Buggy	33.75	
03 31 13 00-0082	CY	250' Haul, Non-Motorized, Concrete Buggy	45.01	
03 31 13 00-0083	CY	50' Haul, Motorized, Concrete Buggy	11.36	
03 31 13 00-0084	CY	150' Haul, Motorized, Concrete Buggy	15.23	
03 31 13 00-0085	CY	250' Haul, Motorized, Concrete Buggy	20.32	

03 31 13 00-0086 Delivery Fee For Small Concrete Purchases (Short Load) (03 31 13)

03 31 13 00-0087	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY	26.22	
		Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		

03 31 13 00-0088 Delivery Fee For Concrete, Per Truck Load (03 31 13)

03 31 13 00-0089	EA	Concrete Delivery Fee, Per Truck	40.00	
		Note: To be added to all concrete leaving concrete yard		

03 31 13 00-0090 Equipment Pads (03 31 13)**03 31 13 00-0091 Small Concrete Equipment Housekeeping Pad Assemblies** (03 31 13 00-0090)

Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.

03 31 13 00-0092	SF	4" Equipment Pad With Welded Wire Reinforcement Assembly	19.51	
		For >5 To 20 Pads, Deduct	-2.45	
		For >20 To 50 Pads, Deduct	-4.48	
		For >50 Pads, Deduct	-6.52	
03 31 13 00-0093	SF	4" Equipment Pad With Rebar Assembly	24.38	
		For >5 To 20 Pads, Deduct	-2.82	
		For >20 To 50 Pads, Deduct	-5.18	
		For >50 Pads, Deduct	-7.53	
03 31 13 00-0094	SF	6" Equipment Pad With Rebar Assembly	30.57	
		For >5 To 20 Pads, Deduct	-3.55	
		For >20 To 50 Pads, Deduct	-6.50	
		For >50 Pads, Deduct	-9.46	
03 31 13 00-0095	SF	8" Equipment Pad With Rebar Assembly	38.35	
		For >5 To 20 Pads, Deduct	-4.51	
		For >20 To 50 Pads, Deduct	-8.26	
		For >50 Pads, Deduct	-12.02	

03 31 16 Lightweight Structural Concrete (03 31)**03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill** (03 31 16)

03 31 16 00-0002	CY	Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range	309.13	
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03 35 Concrete Finishing (03 30)**03 35 13 High-Tolerance Concrete Floor Finishing** (03 35)**03 35 13 00-0001 Floor Finishes** (03 35 13)

Note: Task is for final finish type and includes all required prior finishes.

03 35 13 00-0002	SF	Screed, Concrete Floor Finish	1.07	
		For Up To 100, Add	2.14	
		For >100 To 250, Add	0.54	
		For >250 To 500, Add	0.27	
		For >5,000 To 10,000, Deduct	-0.05	
		For >10,000, Deduct	-0.11	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 13 00-0003 SF Darby, Concrete Floor Finish.....	1.29	
For Up To 100, Add	2.58	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.32	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.13	
03 35 13 00-0004 SF Broom, Concrete Floor Finish.....	1.42	
For Up To 100, Add	2.84	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.36	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.14	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish.....	1.65	
For Up To 100, Add	3.30	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.41	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.17	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.86	
For Up To 100, Add	3.72	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000, Deduct	-0.19	
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.30	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	1.98	
03 35 16 00-0004 SF 0.3 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.23	
03 35 16 00-0005 SF 0.65 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.47	
03 35 19 Colored Concrete Finishing (03 35)		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.55	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent.....	3.29	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproofers.....	0.39	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproofers.....	0.41	
03 35 23 Exposed Aggregate Concrete Finishing (03 35)		
03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish.....	3.93	
03 35 26 Grooved Concrete Surface Finishing (03 35)		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing.....	4.69	
03 35 29 Tooled Concrete Finishing (03 35)		
03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002 SF Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork.....	17.92	
03 35 29 00-0003 Marblecrete Finishes (03 35 29)		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish.....	40.21	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish.....	53.94	
03 35 33 Stamped Concrete Finishing (03 35)		
03 35 33 00-0001 Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish.....	4.30	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish.....	3.90	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish.....	3.72	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 35 63 00-0002	SF	Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.69	
			<i>For Up To 100, Add</i>	2.04	
			<i>For >100 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000, Deduct</i>	-0.10	
	03 35 63 00-0003	SF	Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.37	
			<i>For Up To 100, Add</i>	2.04	
			<i>For >100 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000, Deduct</i>	-0.10	
	03 35 66		Acid Etch Floor Finishing (03 35)		
	03 35 66 00-0001		Acid Etch Floor (03 35 66)		
	03 35 66 00-0002	SF	Concrete Floor Finishes, Etch With Acid And Rinse	1.01	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000, Deduct</i>	-0.05	
	03 35 83		Concrete Wall Finishing (03 35)		
	03 35 83 00-0001		Wall Finishes (03 35 83)		
	03 35 83 00-0002	SF	Burlap Rub With Grout, New Concrete Wall Finishes	1.89	
			<i>For Up To 100, Add</i>	3.58	
			<i>For >100 To 250, Add</i>	0.90	
			<i>For >250 To 500, Add</i>	0.45	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000, Deduct</i>	-0.18	
	03 35 83 00-0003	SF	1/16" Float Finish, New Concrete Wall Finishes	2.82	
			<i>For Up To 100, Add</i>	5.36	
			<i>For >100 To 250, Add</i>	1.34	
			<i>For >250 To 500, Add</i>	0.67	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000, Deduct</i>	-0.27	
	03 35 83 00-0004	SF	Etch With Acid And Rinse, New Concrete Wall Finishes	1.11	
			<i>For Up To 100, Add</i>	1.18	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >5,000 To 10,000, Deduct</i>	-0.03	
			<i>For >10,000, Deduct</i>	-0.06	
	03 35 83 00-0005	SF	Bush Hammer Green Concrete, New Concrete Wall Finishes	5.73	
			<i>For Up To 100, Add</i>	11.36	
			<i>For >100 To 250, Add</i>	2.84	
			<i>For >250 To 500, Add</i>	1.42	
			<i>For >5,000 To 10,000, Deduct</i>	-0.28	
			<i>For >10,000, Deduct</i>	-0.57	
	03 35 83 00-0006	SF	Bush Hammer Cured Concrete, New Concrete Wall Finishes	8.88	
			<i>For Up To 100, Add</i>	17.56	
			<i>For >100 To 250, Add</i>	4.39	
			<i>For >250 To 500, Add</i>	2.20	
			<i>For >5,000 To 10,000, Deduct</i>	-0.44	
			<i>For >10,000, Deduct</i>	-0.88	
	03 35 83 00-0007	SF	Break Ties And Patch, New Concrete Wall Finishes	1.08	
			<i>For Up To 100, Add</i>	1.92	
			<i>For >100 To 250, Add</i>	0.48	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000, Deduct</i>	-0.10	
	03 35 83 00-0008	SF	Carborundum Dry Rub, New Concrete Wall Finishes	3.70	
			<i>For Up To 100, Add</i>	7.16	
			<i>For >100 To 250, Add</i>	1.79	
			<i>For >250 To 500, Add</i>	0.90	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000, Deduct</i>	-0.36	
	03 35 83 00-0009	SF	Carborundum Wet Rub, New Concrete Wall Finishes	5.64	
			<i>For Up To 100, Add</i>	11.04	
			<i>For >100 To 250, Add</i>	2.76	
			<i>For >250 To 500, Add</i>	1.38	
			<i>For >5,000 To 10,000, Deduct</i>	-0.28	
			<i>For >10,000, Deduct</i>	-0.55	
	03 35 83 00-0010	SF	Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	5.71	
			Note: 4.5 Lbs of sand or abrasive media material per SF		
			<i>For Up To 100, Add</i>	9.10	
			<i>For >100 To 250, Add</i>	2.28	
			<i>For >250 To 500, Add</i>	1.14	
			<i>For >5,000 To 10,000, Deduct</i>	-0.23	
			<i>For >10,000, Deduct</i>	-0.46	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	11.41	
Note: 9 Lbs of sand abrasive media material per SF		
For Up To 100, Add	18.18	
For >100 To 250, Add	4.55	
For >250 To 500, Add	2.27	
For >5,000 To 10,000, Deduct	-0.45	
For >10,000, Deduct	-0.91	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced	3.61	
For Up To 25, Add	0.68	
For >25 To 50, Add	0.39	
For >50 To 150, Add	0.16	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced	6.79	
For Up To 25, Add	1.25	
For >25 To 50, Add	0.72	
For >50 To 150, Add	0.29	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced	9.61	
For Up To 25, Add	1.73	
For >25 To 50, Add	0.99	
For >50 To 150, Add	0.38	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced	12.14	
For Up To 25, Add	2.14	
For >25 To 50, Add	1.22	
For >50 To 150, Add	0.46	
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced	16.44	
For Up To 25, Add	2.76	
For >25 To 50, Add	1.57	
For >50 To 150, Add	0.56	

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

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

03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.93	
For Radius Or Irregular Surface, Add	1.16	
For Up To 25, Add	0.83	
For >25 To 50, Add	0.49	
For >50 To 150, Add	0.22	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.26	
For Radius Or Irregular Surface, Add	2.09	
For Up To 25, Add	1.51	
For >25 To 50, Add	0.89	
For >50 To 150, Add	0.39	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.11	
For Radius Or Irregular Surface, Add	2.82	
For Up To 25, Add	2.07	
For >25 To 50, Add	1.21	
For >50 To 150, Add	0.53	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed	12.53	
For Radius Or Irregular Surface, Add	3.38	
For Up To 25, Add	2.52	
For >25 To 50, Add	1.47	
For >50 To 150, Add	0.63	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.61	
For Radius Or Irregular Surface, Add	3.80	
For Up To 25, Add	2.89	
For >25 To 50, Add	1.68	
For >50 To 150, Add	0.71	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed	16.38	
For Radius Or Irregular Surface, Add	4.11	
For Up To 25, Add	3.18	
For >25 To 50, Add	1.85	
For >50 To 150, Add	0.77	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed	20.47	
For Radius Or Irregular Surface, Add	4.93	
For Up To 25, Add	3.90	
For >25 To 50, Add	2.26	
For >50 To 150, Add	0.92	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed	24.05	
For Radius Or Irregular Surface, Add	5.54	
For Up To 25, Add	4.48	
For >25 To 50, Add	2.59	
For >50 To 150, Add	1.04	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed	27.20	
For Radius Or Irregular Surface, Add	5.99	
For Up To 25, Add	4.97	
For >25 To 50, Add	2.86	
For >50 To 150, Add	1.12	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 37 16 Pumped Concrete (03 37)

03 37 16 00-0001	Concrete Pumping With Boom Truck <small>(03 37 16)</small>		
	<small>Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.</small>		
03 37 16 00-0002	HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	209.51	
03 37 16 00-0003	HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	223.82	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.25	
03 37 16 00-0004	HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	275.50	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.50	
03 37 16 00-0005	HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	307.67	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.50	
03 37 16 00-0006	HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	340.87	
	<i>For Each CY Of Concrete Pumped, Add</i>	1.75	
03 37 16 00-0007	HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	411.19	
03 37 16 00-0008	HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	453.14	
03 37 16 00-0009	HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	554.75	
	<i>For Each CY Of Concrete Pumped, Add</i>	2.25	
03 37 16 00-0010	HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	145.16	
	<small>Note: Includes hoses</small>		

03 39 Concrete Curing (03 30)

03 39 13 Water Concrete Curing (03 39)

03 39 13 00-0001	Water Concrete Curing <small>(03 39 13)</small>		
03 39 13 00-0002	SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.36	
	<small>Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.</small>		

03 39 23 Membrane Concrete Curing (03 39)

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

03 39 23 23-0001	Warm Weather Concrete Curing Blankets <small>(03 39 23 23)</small>		
03 39 23 23-0002	CSF Warm Weather Concrete Curing Blankets	33.42	
03 39 23 23-0003	Cold Weather Concrete Curing Blankets <small>(03 39 23 23)</small>		
03 39 23 23-0004	CSF Electric, Cold Weather Concrete Curing Blanket	308.31	
03 39 23 23-0005	CSF Non-Electric, Cold Weather Concrete Curing Blanket	38.27	

03 40 Precast Concrete (03)

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

03 41 Precast Structural Concrete (03 40)

03 41 16 Precast Concrete Slabs (03 41)

03 41 16 00-0001	Flat Floor Slab/Floor Plank <small>(03 41 16)</small>		
03 41 16 00-0002	Erection Costs For Using A 90 Ton Crawler Crane <small>(03 41 16 00-0001)</small>		
	<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 16 00-0003	EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane	362.39	289.94
03 41 16 00-0004	EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	402.85	322.23
03 41 16 00-0005	EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	427.77	342.20
03 41 16 00-0006	EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane	453.48	362.81
03 41 16 00-0007	EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	485.31	388.22
03 41 16 00-0008	EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	518.67	414.94
03 41 16 00-0009	EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	556.96	445.54
03 41 16 00-0010	EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	605.74	484.57
03 41 16 00-0011	EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane	658.63	526.97

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

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

03 41 16 00-0013	SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	31.64	
	<i>For 3,500 PSI Concrete, Add</i>	0.63	
	<i>For 4,000 PSI Concrete, Add</i>	0.95	
	<i>For 4,500 PSI Concrete, Add</i>	1.27	
	<i>For 5,000 PSI Concrete, Add</i>	1.90	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0014 SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	37.97	
<i>For 3,500 PSI Concrete, Add</i>	0.76	
<i>For 4,000 PSI Concrete, Add</i>	1.14	
<i>For 4,500 PSI Concrete, Add</i>	1.52	
<i>For 5,000 PSI Concrete, Add</i>	2.28	
03 41 16 00-0015 SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	46.41	
<i>For 3,500 PSI Concrete, Add</i>	0.93	
<i>For 4,000 PSI Concrete, Add</i>	1.39	
<i>For 4,500 PSI Concrete, Add</i>	1.86	
<i>For 5,000 PSI Concrete, Add</i>	2.78	
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	61.60	
<i>For 3,500 PSI Concrete, Add</i>	1.23	
<i>For 4,000 PSI Concrete, Add</i>	1.85	
<i>For 4,500 PSI Concrete, Add</i>	2.46	
<i>For 5,000 PSI Concrete, Add</i>	3.70	
03 41 16 00-0017 Floor Units, Combination Beam And Slab <small>(03 41 16)</small>		
03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane <small>(03 41 16 00-0017)</small>		
<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	445.12	356.08
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	485.16	388.17
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	536.23	428.93
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	595.43	476.30
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	669.31	535.40
03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane <small>(03 41 16 00-0017)</small>		
<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane	563.42	450.77
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	614.10	491.25
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane	678.75	543.04
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane	753.67	602.96
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane	847.20	677.82
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane	921.15	736.87
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane	1,018.12	814.49
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane	1,126.85	901.53
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane	1,275.44	1,020.36
03 41 16 00-0034 Material Cost <small>(03 41 16 00-0017)</small>		
<small>Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.</small>		
03 41 16 00-0035 4" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,332.85	
<i>For 3,500 PSI Concrete, Add</i>	66.66	
<i>For 4,000 PSI Concrete, Add</i>	99.99	
<i>For 4,500 PSI Concrete, Add</i>	133.31	
<i>For 5,000 PSI Concrete, Add</i>	199.97	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,375.03	
<i>For 3,500 PSI Concrete, Add</i>	67.50	
<i>For 4,000 PSI Concrete, Add</i>	101.25	
<i>For 4,500 PSI Concrete, Add</i>	135.00	
<i>For 5,000 PSI Concrete, Add</i>	202.50	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,796.91	
<i>For 3,500 PSI Concrete, Add</i>	75.94	
<i>For 4,000 PSI Concrete, Add</i>	113.91	
<i>For 4,500 PSI Concrete, Add</i>	151.88	
<i>For 5,000 PSI Concrete, Add</i>	227.81	
03 41 16 00-0039 5" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,417.22	
<i>For 3,500 PSI Concrete, Add</i>	68.34	
<i>For 4,000 PSI Concrete, Add</i>	102.52	
<i>For 4,500 PSI Concrete, Add</i>	136.69	
<i>For 5,000 PSI Concrete, Add</i>	205.03	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,543.79	
<i>For 3,500 PSI Concrete, Add</i>	70.88	
<i>For 4,000 PSI Concrete, Add</i>	106.31	
<i>For 4,500 PSI Concrete, Add</i>	141.75	
<i>For 5,000 PSI Concrete, Add</i>	212.63	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,514.11	
<i>For 3,500 PSI Concrete, Add</i>	90.28	
<i>For 4,000 PSI Concrete, Add</i>	135.42	
<i>For 4,500 PSI Concrete, Add</i>	180.56	
<i>For 5,000 PSI Concrete, Add</i>	270.85	
03 41 16 00-0043 6" Slab <small>(03 41 16 00-0034)</small>		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0044	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,543.79	
			<i>For 3,500 PSI Concrete, Add</i>	70.88	
			<i>For 4,000 PSI Concrete, Add</i>	106.31	
			<i>For 4,500 PSI Concrete, Add</i>	141.75	
			<i>For 5,000 PSI Concrete, Add</i>	212.63	
03 41 16 00-0045	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	4,218.79	
			<i>For 3,500 PSI Concrete, Add</i>	84.38	
			<i>For 4,000 PSI Concrete, Add</i>	126.56	
			<i>For 4,500 PSI Concrete, Add</i>	168.75	
			<i>For 5,000 PSI Concrete, Add</i>	253.13	
03 41 16 00-0046	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	5,146.93	
			<i>For 3,500 PSI Concrete, Add</i>	102.94	
			<i>For 4,000 PSI Concrete, Add</i>	154.41	
			<i>For 4,500 PSI Concrete, Add</i>	205.88	
			<i>For 5,000 PSI Concrete, Add</i>	308.82	
03 41 19 Precast Concrete Wall Panels (03 41)					
03 41 19 00-0001			Structural Wall Panels (03 41 19)		
			Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002			Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003	EA		Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	358.15	286.54
03 41 19 00-0004	EA		Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	398.13	318.45
03 41 19 00-0005	EA		Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	448.17	358.56
03 41 19 00-0006	EA		Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	479.62	383.67
03 41 19 00-0007	EA		Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	512.60	410.07
03 41 19 00-0008	EA		Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	550.43	440.32
03 41 19 00-0009	EA		Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	598.64	478.89
03 41 19 00-0010	EA		Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	650.91	520.79
03 41 19 00-0011			Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012	EA		Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	400.42	320.29
03 41 19 00-0013	EA		Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	445.12	356.08
03 41 19 00-0014	EA		Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	501.07	400.92
03 41 19 00-0015	EA		Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	536.23	428.93
03 41 19 00-0016	EA		Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	573.10	458.48
03 41 19 00-0017	EA		Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	615.41	492.35
03 41 19 00-0018	EA		Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	669.31	535.40
03 41 19 00-0019	EA		Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	727.74	582.14
03 41 19 00-0020	EA		Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	804.34	643.52
03 41 19 00-0021	EA		Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	890.25	712.17
03 41 19 00-0022	EA		Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,007.64	806.16
03 41 19 00-0023	EA		Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,146.19	916.96
03 41 19 00-0024	EA		Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane	1,328.92	1,063.16
03 41 19 00-0025			Material Cost (03 41 19 00-0001)		
			Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0026	SF		4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	42.19	
			<i>For 3,500 PSI Concrete, Add</i>	0.84	
			<i>For 4,000 PSI Concrete, Add</i>	1.27	
			<i>For 4,500 PSI Concrete, Add</i>	1.69	
			<i>For 5,000 PSI Concrete, Add</i>	2.53	
			<i>For White Facing, Add</i>	8.44	
			<i>For Solid White Through Thickness, Add</i>	8.44	
			<i>For Broken Rib Finish, Add</i>	4.22	
			<i>For Fluted Surface, Add</i>	4.22	
			<i>For Exposed Aggregate, Add</i>	8.44	
			<i>For Sandblasting Of Surface, Add</i>	4.22	
			<i>For 2" Polystyrene Insulation, Add</i>	2.16	
03 41 19 00-0027	SF		5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	51.89	
			<i>For 3,500 PSI Concrete, Add</i>	1.04	
			<i>For 4,000 PSI Concrete, Add</i>	1.56	
			<i>For 4,500 PSI Concrete, Add</i>	2.08	
			<i>For 5,000 PSI Concrete, Add</i>	3.11	
			<i>For White Facing, Add</i>	10.38	
			<i>For Solid White Through Thickness, Add</i>	10.38	
			<i>For Broken Rib Finish, Add</i>	5.19	
			<i>For Fluted Surface, Add</i>	5.19	
			<i>For Exposed Aggregate, Add</i>	10.38	
			<i>For Sandblasting Of Surface, Add</i>	5.19	
			<i>For 2" Polystyrene Insulation, Add</i>	2.16	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	62.44	
For 3,500 PSI Concrete, Add	1.25	
For 4,000 PSI Concrete, Add	1.87	
For 4,500 PSI Concrete, Add	2.50	
For 5,000 PSI Concrete, Add	3.75	
For White Facing, Add	12.49	
For Solid White Through Thickness, Add	12.49	
For Broken Rib Finish, Add	6.24	
For Fluted Surface, Add	6.24	
For Exposed Aggregate, Add	12.49	
For Sandblasting Of Surface, Add	6.24	
For 2" Polystyrene Insulation, Add	2.16	
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	82.27	
For 3,500 PSI Concrete, Add	1.65	
For 4,000 PSI Concrete, Add	2.47	
For 4,500 PSI Concrete, Add	3.29	
For 5,000 PSI Concrete, Add	4.94	
For White Facing, Add	16.45	
For Solid White Through Thickness, Add	16.45	
For Broken Rib Finish, Add	8.23	
For Fluted Surface, Add	8.23	
For Exposed Aggregate, Add	16.45	
For Sandblasting Of Surface, Add	8.23	
For 2" Polystyrene Insulation, Add	2.16	
03 41 19 00-0030 Partition Panels (03 41 19)		
03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	285.14	228.07
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	316.98	253.61
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	356.81	285.44
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	408.10	326.48
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	438.23	350.62
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	476.62	381.28
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	518.23	414.63
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	572.78	458.24
03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	358.15	286.54
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	398.13	318.45
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	448.17	358.56
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	512.60	410.07
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	550.43	440.32
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	598.64	478.89
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	650.91	520.79
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	719.43	575.52
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	796.26	637.02
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	901.27	720.96
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	1,025.19	820.15
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,188.62	950.86
03 41 19 00-0053 Material Cost (03 41 19 00-0030)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	40.08	
For 4,000 PSI Concrete, Add	1.20	
For 4,500 PSI Concrete, Add	1.60	
For 5,000 PSI Concrete, Add	2.40	
For White Facing, Add	8.02	
For Solid White Through Thickness, Add	8.02	
For Broken Rib Finish, Add	4.01	
For Fluted Surface, Add	4.01	
For Exposed Aggregate, Add	8.02	
For Sandblasting Of Surface, Add	4.01	
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	49.36	
For 4,000 PSI Concrete, Add	1.48	
For 4,500 PSI Concrete, Add	1.97	
For 5,000 PSI Concrete, Add	2.96	
For White Facing, Add	9.87	
For Solid White Through Thickness, Add	9.87	
For Broken Rib Finish, Add	4.94	
For Fluted Surface, Add	4.94	
For Exposed Aggregate, Add	9.87	
For Sandblasting Of Surface, Add	4.94	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0056	SF		6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	59.06	
			<i>For 4,000 PSI Concrete, Add</i>	1.77	
			<i>For 4,500 PSI Concrete, Add</i>	2.36	
			<i>For 5,000 PSI Concrete, Add</i>	3.54	
			<i>For White Facing, Add</i>	11.81	
			<i>For Solid White Through Thickness, Add</i>	11.81	
			<i>For Broken Rib Finish, Add</i>	5.91	
			<i>For Fluted Surface, Add</i>	5.91	
			<i>For Exposed Aggregate, Add</i>	11.81	
			<i>For Sandblasting Of Surface, Add</i>	5.91	
03 41 19 00-0057	SF		8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	78.05	
			<i>For 4,000 PSI Concrete, Add</i>	2.34	
			<i>For 4,500 PSI Concrete, Add</i>	3.12	
			<i>For 5,000 PSI Concrete, Add</i>	4.68	
			<i>For White Facing, Add</i>	15.61	
			<i>For Solid White Through Thickness, Add</i>	15.61	
			<i>For Broken Rib Finish, Add</i>	7.81	
			<i>For Fluted Surface, Add</i>	7.81	
			<i>For Exposed Aggregate, Add</i>	15.61	
			<i>For Sandblasting Of Surface, Add</i>	7.81	
03 41 19 00-0058			Cladding Panels (03 41 19)		
03 41 19 00-0059			Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060	EA		Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	377.95	302.31
03 41 19 00-0061	EA		Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	422.76	338.19
03 41 19 00-0062	EA		Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	479.62	383.67
03 41 19 00-0063	EA		Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	512.60	410.07
03 41 19 00-0064	EA		Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	550.43	440.32
03 41 19 00-0065	EA		Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	598.64	478.89
03 41 19 00-0066	EA		Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	650.91	520.79
03 41 19 00-0067	EA		Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	719.43	575.52
03 41 19 00-0068			Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069	EA		Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	422.56	338.00
03 41 19 00-0070	EA		Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	472.65	378.11
03 41 19 00-0071	EA		Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	536.23	428.93
03 41 19 00-0072	EA		Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	573.10	458.48
03 41 19 00-0073	EA		Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	615.41	492.35
03 41 19 00-0074	EA		Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	669.31	535.40
03 41 19 00-0075	EA		Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	727.74	582.14
03 41 19 00-0076	EA		Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	804.34	643.52
03 41 19 00-0077	EA		Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	890.25	712.17
03 41 19 00-0078	EA		Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	1,007.64	806.16
03 41 19 00-0079	EA		Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,146.19	916.96
03 41 19 00-0080	EA		Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,328.92	1,063.16
03 41 19 00-0081			Material Cost (03 41 19 00-0058)		
			Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082	SF		4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	40.08	
			<i>For 3,500 PSI Concrete, Add</i>	0.80	
			<i>For 4,000 PSI Concrete, Add</i>	1.20	
			<i>For 4,500 PSI Concrete, Add</i>	1.60	
			<i>For 5,000 PSI Concrete, Add</i>	2.40	
			<i>For White Facing, Add</i>	8.02	
			<i>For Solid White Through Thickness, Add</i>	8.02	
			<i>For Broken Rib Finish, Add</i>	4.01	
			<i>For Fluted Surface, Add</i>	4.01	
			<i>For Exposed Aggregate, Add</i>	8.02	
			<i>For Sandblasting Of Surface, Add</i>	4.01	
03 41 19 00-0083	SF		5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	49.36	
			<i>For 3,500 PSI Concrete, Add</i>	0.99	
			<i>For 4,000 PSI Concrete, Add</i>	1.48	
			<i>For 4,500 PSI Concrete, Add</i>	1.97	
			<i>For 5,000 PSI Concrete, Add</i>	2.96	
			<i>For White Facing, Add</i>	9.87	
			<i>For Solid White Through Thickness, Add</i>	9.87	
			<i>For Broken Rib Finish, Add</i>	4.94	
			<i>For Fluted Surface, Add</i>	4.94	
			<i>For Exposed Aggregate, Add</i>	9.87	
			<i>For Sandblasting Of Surface, Add</i>	4.94	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 41 19 00-0084	SF	6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	59.06	
		<i>For 3,500 PSI Concrete, Add</i>	1.18	
		<i>For 4,000 PSI Concrete, Add</i>	1.77	
		<i>For 4,500 PSI Concrete, Add</i>	2.36	
		<i>For 5,000 PSI Concrete, Add</i>	3.54	
		<i>For White Facing, Add</i>	11.81	
		<i>For Solid White Through Thickness, Add</i>	11.81	
		<i>For Broken Rib Finish, Add</i>	5.91	
		<i>For Fluted Surface, Add</i>	5.91	
		<i>For Exposed Aggregate, Add</i>	11.81	
		<i>For Sandblasting Of Surface, Add</i>	5.91	
03 41 19 00-0085	SF	8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	78.05	
		<i>For 3,500 PSI Concrete, Add</i>	1.56	
		<i>For 4,000 PSI Concrete, Add</i>	2.34	
		<i>For 4,500 PSI Concrete, Add</i>	3.12	
		<i>For 5,000 PSI Concrete, Add</i>	4.68	
		<i>For White Facing, Add</i>	15.61	
		<i>For Solid White Through Thickness, Add</i>	15.61	
		<i>For Broken Rib Finish, Add</i>	7.81	
		<i>For Fluted Surface, Add</i>	7.81	
		<i>For Exposed Aggregate, Add</i>	15.61	
		<i>For Sandblasting Of Surface, Add</i>	7.81	

03 41 19 00-0086 Sandwich Panel (03 41 19)

03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)

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

03 41 19 00-0088	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	377.95	302.31
03 41 19 00-0089	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	422.76	338.19
03 41 19 00-0090	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	479.62	383.67
03 41 19 00-0091	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	512.60	410.07
03 41 19 00-0092	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	550.43	440.32
03 41 19 00-0093	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	598.64	478.89
03 41 19 00-0094	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	650.91	520.79
03 41 19 00-0095	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	719.43	575.52

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

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

03 41 19 00-0097	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	382.43	305.89
03 41 19 00-0098	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	427.77	342.20
03 41 19 00-0099	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	485.31	388.22
03 41 19 00-0100	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	518.67	414.94
03 41 19 00-0101	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	556.96	445.54
03 41 19 00-0102	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	605.74	484.57
03 41 19 00-0103	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	658.63	526.97
03 41 19 00-0104	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	727.96	582.34
03 41 19 00-0105	EA	Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	805.71	644.58
03 41 19 00-0106	EA	Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	911.96	729.51
03 41 19 00-0107	EA	Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,037.35	829.87
03 41 19 00-0108	EA	Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,202.71	962.14

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

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

03 41 19 00-0110	SF	4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	54.84	
		<i>For 3,500 PSI Concrete, Add</i>	1.10	
		<i>For 4,000 PSI Concrete, Add</i>	1.65	
		<i>For 4,500 PSI Concrete, Add</i>	2.19	
		<i>For 5,000 PSI Concrete, Add</i>	3.29	
		<i>For White Facing, Add</i>	10.97	
		<i>For Solid White Through Thickness, Add</i>	10.97	
		<i>For Broken Rib Finish, Add</i>	5.48	
		<i>For Fluted Surface, Add</i>	5.48	
		<i>For Exposed Aggregate, Add</i>	10.97	
		<i>For Sandblasting Of Surface, Add</i>	5.48	
03 41 19 00-0111	SF	5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	64.55	
		<i>For 3,500 PSI Concrete, Add</i>	1.29	
		<i>For 4,000 PSI Concrete, Add</i>	1.94	
		<i>For 4,500 PSI Concrete, Add</i>	2.58	
		<i>For 5,000 PSI Concrete, Add</i>	3.87	
		<i>For White Facing, Add</i>	12.91	
		<i>For Solid White Through Thickness, Add</i>	12.91	
		<i>For Broken Rib Finish, Add</i>	6.46	
		<i>For Fluted Surface, Add</i>	6.46	
		<i>For Exposed Aggregate, Add</i>	12.91	
		<i>For Sandblasting Of Surface, Add</i>	6.46	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 19 00-0112	SF	6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	75.09	
		<i>For 3,500 PSI Concrete, Add</i>	1.50	
		<i>For 4,000 PSI Concrete, Add</i>	2.25	
		<i>For 4,500 PSI Concrete, Add</i>	3.00	
		<i>For 5,000 PSI Concrete, Add</i>	4.51	
		<i>For White Facing, Add</i>	15.02	
		<i>For Solid White Through Thickness, Add</i>	15.02	
		<i>For Broken Rib Finish, Add</i>	7.51	
		<i>For Fluted Surface, Add</i>	7.51	
		<i>For Exposed Aggregate, Add</i>	15.02	
		<i>For Sandblasting Of Surface, Add</i>	7.51	
03 41 19 00-0113	SF	8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	94.92	
		<i>For 3,500 PSI Concrete, Add</i>	1.90	
		<i>For 4,000 PSI Concrete, Add</i>	2.85	
		<i>For 4,500 PSI Concrete, Add</i>	3.80	
		<i>For 5,000 PSI Concrete, Add</i>	5.70	
		<i>For White Facing, Add</i>	18.98	
		<i>For Solid White Through Thickness, Add</i>	18.98	
		<i>For Broken Rib Finish, Add</i>	9.49	
		<i>For Fluted Surface, Add</i>	9.49	
		<i>For Exposed Aggregate, Add</i>	18.98	
		<i>For Sandblasting Of Surface, Add</i>	9.49	

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

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

03 41 23 00-0002	EA	Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	398.13	318.45
03 41 23 00-0003	EA	Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	422.76	338.19
03 41 23 00-0004	EA	Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	448.17	358.56
03 41 23 00-0005	EA	Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	479.62	383.67
03 41 23 00-0006	EA	Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	512.60	410.07
03 41 23 00-0007	EA	Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	550.43	440.32
03 41 23 00-0008	EA	Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	598.64	478.89
03 41 23 00-0009	EA	Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	650.91	520.79

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

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

03 41 23 00-0011	EA	Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane	398.13	318.45
03 41 23 00-0012	EA	Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	422.76	338.19
03 41 23 00-0013	EA	Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	448.17	358.56
03 41 23 00-0014	EA	Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	479.62	383.67
03 41 23 00-0015	EA	Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	512.60	410.07
03 41 23 00-0016	EA	Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	550.43	440.32
03 41 23 00-0017	EA	Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	598.64	478.89
03 41 23 00-0018	EA	Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	650.91	520.79

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

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

03 41 23 00-0020	EA	3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser	845.49	
		<i>For 3,500 PSI Concrete, Add</i>	110.34	
		<i>For 4,000 PSI Concrete, Add</i>	207.31	
		<i>For 4,500 PSI Concrete, Add</i>	304.71	
		<i>For 5,000 PSI Concrete, Add</i>	414.54	

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

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

03 41 26 00-0003	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	501.07	400.92
03 41 26 00-0004	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	536.23	428.93
03 41 26 00-0005	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane	573.10	458.48
03 41 26 00-0006	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane	615.41	492.35

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

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

03 41 26 00-0008	EA	Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane	634.24	507.35
03 41 26 00-0009	EA	Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane	678.75	543.04
03 41 26 00-0010	EA	Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane	725.41	580.33
03 41 26 00-0011	EA	Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane	778.97	623.13
03 41 26 00-0012	EA	Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane	847.20	677.82
03 41 26 00-0013	EA	Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane	921.15	736.87
03 41 26 00-0014	EA	Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane	1,018.12	814.49



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane	1,126.85	901.53
03 41 26 00-0016 Material Cost <small>(03 41 26 00-0001)</small>		
<small>Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.</small>		
03 41 26 00-0017 1,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	169.07	
<i>For 3,500 PSI Concrete, Add</i>	4.62	
<i>For 4,000 PSI Concrete, Add</i>	6.93	
<i>For 4,500 PSI Concrete, Add</i>	9.23	
<i>For 5,000 PSI Concrete, Add</i>	13.86	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	211.34	
<i>For 3,500 PSI Concrete, Add</i>	5.77	
<i>For 4,000 PSI Concrete, Add</i>	8.66	
<i>For 4,500 PSI Concrete, Add</i>	11.54	
<i>For 5,000 PSI Concrete, Add</i>	17.33	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	253.61	
<i>For 3,500 PSI Concrete, Add</i>	6.92	
<i>For 4,000 PSI Concrete, Add</i>	10.40	
<i>For 4,500 PSI Concrete, Add</i>	13.85	
<i>For 5,000 PSI Concrete, Add</i>	20.80	
03 41 26 00-0021 3,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	211.34	
<i>For 3,500 PSI Concrete, Add</i>	5.77	
<i>For 4,000 PSI Concrete, Add</i>	8.66	
<i>For 4,500 PSI Concrete, Add</i>	11.54	
<i>For 5,000 PSI Concrete, Add</i>	17.33	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	253.61	
<i>For 3,500 PSI Concrete, Add</i>	6.92	
<i>For 4,000 PSI Concrete, Add</i>	10.40	
<i>For 4,500 PSI Concrete, Add</i>	13.85	
<i>For 5,000 PSI Concrete, Add</i>	20.80	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	338.15	
<i>For 3,500 PSI Concrete, Add</i>	9.23	
<i>For 4,000 PSI Concrete, Add</i>	13.86	
<i>For 4,500 PSI Concrete, Add</i>	18.46	
<i>For 5,000 PSI Concrete, Add</i>	27.73	
03 41 26 00-0025 5,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	295.88	
<i>For 3,500 PSI Concrete, Add</i>	8.08	
<i>For 4,000 PSI Concrete, Add</i>	12.13	
<i>For 4,500 PSI Concrete, Add</i>	16.16	
<i>For 5,000 PSI Concrete, Add</i>	24.26	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	338.15	
<i>For 3,500 PSI Concrete, Add</i>	9.23	
<i>For 4,000 PSI Concrete, Add</i>	13.86	
<i>For 4,500 PSI Concrete, Add</i>	18.46	
<i>For 5,000 PSI Concrete, Add</i>	27.73	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	422.68	
<i>For 3,500 PSI Concrete, Add</i>	11.54	
<i>For 4,000 PSI Concrete, Add</i>	17.33	
<i>For 4,500 PSI Concrete, Add</i>	23.08	
<i>For 5,000 PSI Concrete, Add</i>	34.66	
03 41 26 00-0029 Precast Concrete Columns <small>(03 41 26)</small>		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane <small>(03 41 26 00-0029)</small>		
<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	290.16	232.10
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	308.50	246.75
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	330.63	264.52
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	354.65	283.72
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	382.43	305.89
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	414.94	331.95
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	453.48	362.81
03 41 26 00-0038 Material Cost <small>(03 41 26 00-0029)</small>		
<small>Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.</small>		
03 41 26 00-0039 12" x 12" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY	875.09	
<i>For 3,500 PSI Concrete, Add</i>	65.63	
<i>For 4,000 PSI Concrete, Add</i>	123.39	
<i>For 4,500 PSI Concrete, Add</i>	182.02	
<i>For 5,000 PSI Concrete, Add</i>	247.65	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 26 00-0041	16" x 16" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0042	CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY	896.70	
	For 3,500 PSI Concrete, Add	67.25	
	For 4,000 PSI Concrete, Add	126.43	
	For 4,500 PSI Concrete, Add	186.51	
	For 5,000 PSI Concrete, Add	253.77	
03 41 26 00-0043	20" x 20" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0044	CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY	898.43	
	For 3,500 PSI Concrete, Add	67.38	
	For 4,000 PSI Concrete, Add	126.68	
	For 4,500 PSI Concrete, Add	186.87	
	For 5,000 PSI Concrete, Add	254.26	
03 41 26 00-0045	24" x 24" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0046	CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY	898.43	
	For 3,500 PSI Concrete, Add	67.38	
	For 4,000 PSI Concrete, Add	126.68	
	For 4,500 PSI Concrete, Add	186.87	
	For 5,000 PSI Concrete, Add	254.26	
03 41 26 00-0047	28" x 28" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0048	CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY	898.43	
	For 3,500 PSI Concrete, Add	67.38	
	For 4,000 PSI Concrete, Add	126.68	
	For 4,500 PSI Concrete, Add	186.87	
	For 5,000 PSI Concrete, Add	254.26	
03 41 26 00-0049	32" x 32" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0050	CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY	896.70	
	For 3,500 PSI Concrete, Add	67.25	
	For 4,000 PSI Concrete, Add	126.43	
	For 4,500 PSI Concrete, Add	186.51	
	For 5,000 PSI Concrete, Add	253.77	
03 41 26 00-0051	36" x 36" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0052	CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY	898.43	
	For 3,500 PSI Concrete, Add	67.38	
	For 4,000 PSI Concrete, Add	126.68	
	For 4,500 PSI Concrete, Add	186.87	
	For 5,000 PSI Concrete, Add	254.26	
03 41 33	Precast Structural Pretensioned Concrete (03 41)		
03 41 33 00-0001	Slabs, Roof And Floor Members (03 41 33)		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor	17.92	2.37
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor	22.33	2.37
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor	26.75	2.48
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor	31.17	2.60
03 41 33 00-0006	Tee Members (03 41 33)		
03 41 33 00-0007	Multiple Tee, Roof And Floor (03 41 33 00-0006)		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members	40.21	3.08
03 41 33 00-0009	Double Tee Wall Member (03 41 33 00-0006)		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span	57.01	8.39
03 41 33 00-0011	Single Tee, Short Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span	47.31	5.08
03 41 33 00-0013	Single Tee, Long Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0014	SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	56.74	4.37
03 41 33 00-0015	Prestressed Concrete Items (03 41 33)		
03 41 33 00-0016	Prestressed Quad Tee (03 41 33 00-0015)		
03 41 33 00-0017	SF Tees, Prestressed Quad Tee, Short Spans, Roof	29.09	0.95



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor.....	30.36	0.95
03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members , 60' Span	48.37	0.82
03 41 33 00-0021 SF Tees, Double Tee, Floor Members , 80' Span	66.58	0.82
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span	33.02	1.42
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span.....	51.13	0.95
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	35.79	1.89
03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	57.25	2.13
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	66.29	1.30
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	87.69	1.18
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	92.34	1.18
03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	14,798.79	340.44
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	16,114.26	378.27
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	26,953.20	425.55
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	5,798.03	309.59
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	7,612.19	340.44
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	9,725.90	340.44
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	10,829.99	378.27
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	13,848.22	425.55
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	24,915.77	486.55
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	30.74	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	32.00	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	33.49	
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	34.61	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	36.99	
03 41 33 00-0046 Double And Single Tees (03 41 33)		
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	37.15	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	36.28	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	34.25	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	37.15	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	37.04	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	56.94	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	55.69	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	52.13	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	56.94	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	53.40	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	38.29	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	37.42	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	36.15	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	38.29	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	37.04	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	58.46	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	57.21	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	55.18	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	58.46	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	56.83	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete.....	40.37	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete.....	39.11	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete.....	37.82	
03 41 33 00-0073 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	62.05	
03 41 33 00-0074 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	60.03	
03 41 33 00-0075 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	57.61	

03 48 Precast Concrete Specialties (03 40)

03 48 16 Precast Concrete Splash Blocks (03 48)

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

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 16 00-0002 EA Precast Concrete Splash Blocks, 20" x 12" x 3"	39.67	4.05
03 48 21 Precast Concrete Handrails (03 48)		
03 48 21 00-0001 Installation Cost (03 48 21)		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail.....	162.49	73.15
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail	194.88	87.66
03 48 21 00-0004 Material Cost (03 48 21)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,339.77	
For 3,500 PSI Concrete, Add	217.92	
For 4,000 PSI Concrete, Add	409.46	
For 4,500 PSI Concrete, Add	601.83	
For 5,000 PSI Concrete, Add	818.74	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,466.59	
For 3,500 PSI Concrete, Add	226.20	
For 4,000 PSI Concrete, Add	425.00	
For 4,500 PSI Concrete, Add	624.68	
For 5,000 PSI Concrete, Add	849.83	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,593.42	
For 3,500 PSI Concrete, Add	234.47	
For 4,000 PSI Concrete, Add	440.55	
For 4,500 PSI Concrete, Add	647.53	
For 5,000 PSI Concrete, Add	880.93	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,762.52	
For 3,500 PSI Concrete, Add	245.50	
For 4,000 PSI Concrete, Add	461.28	
For 4,500 PSI Concrete, Add	678.01	
For 5,000 PSI Concrete, Add	922.38	
03 48 22 Precast Concrete Sun Screen and Trellis (03 48)		
03 48 22 00-0001 Sun Screen Blades (03 48 22)		
03 48 22 00-0002 Installation Cost (03 48 22 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each	81.25	36.57
03 48 22 00-0004 EA Install Precast Sun Screen Blade, 1-2 Ton/Each	97.60	43.89
03 48 22 00-0005 EA Install Precast Sun Screen Blade, 2-3 Ton/Each	121.96	54.92
03 48 22 00-0006 Material Cost (03 48 22 00-0001)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0007 CY 4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,551.14	
For 3,500 PSI Concrete, Add	231.71	
For 4,000 PSI Concrete, Add	435.37	
For 4,500 PSI Concrete, Add	639.92	
For 5,000 PSI Concrete, Add	870.56	
03 48 22 00-0008 CY 5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,677.97	
For 3,500 PSI Concrete, Add	239.99	
For 4,000 PSI Concrete, Add	450.92	
For 4,500 PSI Concrete, Add	662.77	
For 5,000 PSI Concrete, Add	901.65	
03 48 22 00-0009 CY 6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,847.07	
For 3,500 PSI Concrete, Add	251.02	
For 4,000 PSI Concrete, Add	471.65	
For 4,500 PSI Concrete, Add	693.24	
For 5,000 PSI Concrete, Add	943.11	
03 48 22 00-0010 CY 8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,016.17	
For 3,500 PSI Concrete, Add	262.06	
For 4,000 PSI Concrete, Add	492.38	
For 4,500 PSI Concrete, Add	723.71	
For 5,000 PSI Concrete, Add	984.56	
03 48 22 00-0011 Sun Screen/Trellis Units (03 48 22)		
03 48 22 00-0012 Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013 EA Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane.....	377.95	170.05
03 48 22 00-0014 EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	422.76	190.30
03 48 22 00-0015 EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	479.62	215.80
03 48 22 00-0016 EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	512.60	230.66
03 48 22 00-0017 Material Cost (03 48 22 00-0011)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades	4,100.73	
For 3,500 PSI Concrete, Add	267.57	
For 4,000 PSI Concrete, Add	502.75	
For 4,500 PSI Concrete, Add	738.95	
For 5,000 PSI Concrete, Add	1,005.29	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades	4,227.55	
For 3,500 PSI Concrete, Add	275.85	
For 4,000 PSI Concrete, Add	518.30	
For 4,500 PSI Concrete, Add	761.80	
For 5,000 PSI Concrete, Add	1,036.38	
03 48 22 00-0020 CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades	4,396.65	
For 3,500 PSI Concrete, Add	286.88	
For 4,000 PSI Concrete, Add	539.03	
For 4,500 PSI Concrete, Add	792.28	
For 5,000 PSI Concrete, Add	1,077.84	
03 48 22 00-0021 CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades	4,608.03	
For 3,500 PSI Concrete, Add	300.67	
For 4,000 PSI Concrete, Add	564.94	
For 4,500 PSI Concrete, Add	830.37	
For 5,000 PSI Concrete, Add	1,129.66	
03 48 24 Precast Minaret Segments (03 48)		
03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002 L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003 EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	367.78	294.22
03 48 24 00-0004 EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	412.14	329.73
03 48 24 00-0005 EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	465.99	372.79
03 48 24 00-0006 EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	497.06	397.65
03 48 24 00-0007 O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008 EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	388.70	311.01
03 48 24 00-0009 EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	436.25	348.95
03 48 24 00-0010 EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	494.07	395.21
03 48 24 00-0011 EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	529.13	423.27
03 48 24 00-0012 Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	745.59	596.53
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	901.27	720.96
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	1,000.18	800.15
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,123.49	898.83
03 48 24 00-0017 Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	408.03	326.40
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	455.64	364.46
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	519.08	415.20
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	554.15	443.27
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	372.14	297.71
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	417.03	333.64
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	471.52	377.21
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	502.96	402.36
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	393.31	314.70
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	441.42	353.09
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	499.93	399.90
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	535.40	428.29
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	601.36	481.07
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	727.96	582.34
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	805.71	644.58
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	911.96	729.51
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	412.87	330.27

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 48 24 00-0040	EA	Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	461.04	368.78
	03 48 24 00-0041	EA	Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	525.23	420.12
	03 48 24 00-0042	EA	Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	560.72	448.52
03 48 24 00-0043			Material Costs <small>(03 48 24)</small> Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
	03 48 24 00-0044	CY	Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete	10,145.56	
			Note: Including Post Tension Cost		
	03 48 24 00-0045	CY	Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete	10,145.56	
			Note: Including Post Tension Cost		
	03 48 24 00-0046	CY	Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete	10,145.56	
			Note: Including Post Tension Cost		
	03 48 24 00-0047	CY	Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete	10,145.56	
			Note: Including Post Tension Cost		
03 48 29			Precast Accessories <small>(03 48)</small> Note: Includes installation labor, material and equipment.		
	03 48 29 00-0001		Bearing Pads For Precast Members <small>(03 48 29)</small>		
	03 48 29 00-0002		Continuous 2" Wide Strips <small>(03 48 29 00-0001)</small>		
	03 48 29 00-0003	LF	Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.41	
			Note: For precast members		
	03 48 29 00-0004	LF	Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	1.99	
			Note: For precast members.		
	03 48 29 00-0005	LF	Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.26	
			Note: For precast members		
	03 48 29 00-0006	LF	Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.55	
			Note: For precast members		
	03 48 29 00-0007	LF	Bearing Pads, Continuous 2" Wide x 1" Thick Strips	5.92	
			Note: For precast members		
	03 48 29 00-0008	LF	Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	8.48	
			Note: For precast members		
	03 48 29 00-0009		Bearing Pad Pipe Supports <small>(03 48 29)</small>		
	03 48 29 00-0010	LF	4" x 4" Precast Pipe Support	10.14	
03 48 46			Precast Skylight Shells <small>(03 48)</small>		
	03 48 46 00-0001		Installation Cost Using A 90 Ton Crawler Crane <small>(03 48 46)</small> Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
	03 48 46 00-0002	EA	Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	536.23	241.33
	03 48 46 00-0003	EA	Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	595.43	267.96
	03 48 46 00-0004	EA	Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	669.31	301.20
	03 48 46 00-0005		Material Cost <small>(03 48 46)</small> Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
	03 48 46 00-0006	CY	3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	4,244.58	
03 48 49			Precast Landings <small>(03 48)</small>		
	03 48 49 00-0001	SF	3" Thick Precast Landing	105.31	
	03 48 49 00-0002	SF	4" Thick Precast Landing	122.84	
	03 48 49 00-0003	SF	5" Thick Precast Landing	139.50	
	03 48 49 00-0004	SF	6" Thick Precast Landing	160.82	
03 48 54			Precast Concrete Blocks <small>(03 48)</small>		
	03 48 54 00-0001		Precast Interlocking Concrete Blocks <small>(03 48 54)</small> Note: Includes lifting loop		
	03 48 54 00-0002	EA	2' x 2' x 2' Precast Interlocking Concrete (Ecology) Block	150.35	44.11
	03 48 54 00-0003	EA	2' x 2' x 3' Precast Interlocking Concrete (Ecology) Block	179.50	49.62
	03 48 54 00-0004	EA	2' x 2' x 4' Precast Interlocking Concrete (Ecology) Block	208.63	55.14
	03 48 54 00-0005	EA	2' x 2' x 6' Precast Interlocking Concrete (Ecology) Block	282.24	60.66
	03 48 54 00-0006	EA	2' x 2' x 8' Precast Interlocking Concrete (Ecology) Block	339.32	66.17
03 50 Cast Decks and Underlayment <small>(03)</small>					
03 53 Concrete Topping <small>(03 50)</small>			Note: Installed over new or existing concrete.		
03 53 14 Granolithic Concrete Topping <small>(03 53)</small>					
	03 53 14 00-0001		Granolithic Topping Laid After <small>(03 53 14)</small> Note: Using 1:1:1-1/2 mix.		
	03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.53	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	4.87	
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	6.08	

03 53 19 Concrete Overlayment (03 53)

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

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.69	
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.00	
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.50	
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.14	
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.84	
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.96	
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.53	

03 54 Cast Underlayment (03 50)

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

03 54 16 Hydraulic Cement Underlayment (03 54)

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

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors.....	1.69	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.15	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors.....	2.86	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.15	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors.....	3.64	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.15	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors.....	5.20	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.15	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors.....	6.13	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.15	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors.....	7.59	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.18	
		For >100 To 250 SF, Add	0.09	
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors.....	9.92	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.18	
		For >100 To 250 SF, Add	0.09	
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors.....	13.07	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.20	
		For >100 To 250 SF, Add	0.10	
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors.....	14.64	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.20	
		For >100 To 250 SF, Add	0.10	
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors.....	19.43	
		Note: Including Surface Preparation		
		For Up To 100 SF, Add	0.25	
		For >100 To 250 SF, Add	0.13	

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

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

03 61 16 Cementitious Flowable Grout (03 61)

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

03 61 16 00-0002	CY	Cementitious Flowable Grout.....	462.79	
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03 62 Non-Shrink Grouting (03 60)

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

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

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	27.09	
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	39.71	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 62 13 00-0004	Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>	
03 62 13 00-0005	SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases.....	41.34
03 62 13 00-0006	SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	65.75

03 62 13 00-0007	Non-Metallic Non-Shrink Grouting For Joints <small>(03 62 13)</small>	
03 62 13 00-0008	1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0009	LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.15
03 62 13 00-0010	LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.81
03 62 13 00-0011	LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.73

03 62 13 00-0012	1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0013	LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.17
03 62 13 00-0014	LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	4.19
03 62 13 00-0015	LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	5.58

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

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases <small>(03 62 16)</small>	
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases.....	35.38
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases.....	54.21

03 62 16 00-0004	Metallic Non-Shrink Grouting For Joints <small>(03 62 16)</small>	
03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>	
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.78
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.25
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	3.00

03 62 16 00-0009	1" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>	
03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.44
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.07
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	4.11

03 63 Epoxy Grouting (03 60)

03 63 00 00-0001	Spray On Concrete Epoxy Grout <small>(03 63)</small>	
	Note: (Sika 224) per thickness per coat.	
03 63 00 00-0002	SF 1/4" Thick Coat Spray On Concrete Epoxy Grout.....	4.17
	<i>For Color, Add</i>	1.10
03 63 00 00-0003	SF 3/8" Thick Coat Spray On Concrete Epoxy Grout.....	5.79
	<i>For Color, Add</i>	1.65
03 63 00 00-0004	SF 1/2" Thick Coat Spray On Concrete Epoxy Grout.....	7.43
	<i>For Color, Add</i>	2.20
03 63 00 00-0005	SF 5/8" Thick Coat Spray On Concrete Epoxy Grout.....	8.90
	<i>For Color, Add</i>	2.76
03 63 00 00-0006	SF 3/4" Thick Coat Spray On Concrete Epoxy Grout.....	10.39
	<i>For Color, Add</i>	3.31
03 63 00 00-0007	SF 1" Thick Coat Spray On Concrete Epoxy Grout.....	13.45
	<i>For Color, Add</i>	4.42

03 64 Injection Grouting (03 60)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout <small>(03 64 23)</small>	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....	1,337.25
	<i>For >4, Deduct</i>	-141.43

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout <small>(03 64 26)</small>	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....	234.27
	<i>For >4, Deduct</i>	-60.68

03 80 Concrete Cutting and Boring (03)

03 81 Concrete Cutting (03 80)



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

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

END OF SECTION 03

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



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 Metals

05 05 Common Work Results for Metals ⁽⁰⁵⁾

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

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

05 05 19 00-0001	Concrete And Masonry Anchors ^(05 05 19)	
05 05 19 00-0002	Expansion Anchors ^(05 05 19 00-0001)	
	Note: Includes drilling.	
05 05 19 00-0003	Wedge Expansion Bolt Anchors ^(05 05 19 00-0002)	
05 05 19 00-0004	Zinc Plated Steel, Wedge Anchor Expansion Bolt ^(05 05 19 00-0003)	
	Note: Includes nut and washer.	
05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	13.83
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.29
	For >100, Deduct	-2.58
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.02
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.29
	For >100, Deduct	-2.59
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.49
	For >10 To 50, Deduct	-0.65
	For >50 To 100, Deduct	-1.33
	For >100, Deduct	-2.66
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.06
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.57
	For >100, Deduct	-3.15
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.21
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.58
	For >100, Deduct	-3.16
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.27
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.58
	For >100, Deduct	-3.16
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.83
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.59
	For >100, Deduct	-3.19
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	24.95
	For >10 To 50, Deduct	-1.09
	For >50 To 100, Deduct	-2.26
	For >100, Deduct	-4.51
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.07
	For >10 To 50, Deduct	-1.09
	For >50 To 100, Deduct	-2.26
	For >100, Deduct	-4.52
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.30
	For >10 To 50, Deduct	-1.09
	For >50 To 100, Deduct	-2.26
	For >100, Deduct	-4.53
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.93
	For >10 To 50, Deduct	-1.09
	For >50 To 100, Deduct	-2.28
	For >100, Deduct	-4.56
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.80
	For >10 To 50, Deduct	-1.09
	For >50 To 100, Deduct	-2.30
	For >100, Deduct	-4.60
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.27
	For >10 To 50, Deduct	-1.34
	For >50 To 100, Deduct	-2.85
	For >100, Deduct	-5.69
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.46
	For >10 To 50, Deduct	-1.34
	For >50 To 100, Deduct	-2.85
	For >100, Deduct	-5.70
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.86
	For >10 To 50, Deduct	-1.34
	For >50 To 100, Deduct	-2.86
	For >100, Deduct	-5.72
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.63
	For >10 To 50, Deduct	-1.34
	For >50 To 100, Deduct	-2.88
	For >100, Deduct	-5.76
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	35.41
	For >10 To 50, Deduct	-1.34
	For >50 To 100, Deduct	-2.90
	For >100, Deduct	-5.80

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	41.52	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.10	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.77	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.18	
			<i>For >100, Deduct</i>	-6.37	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.45	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.41	
			<i>For >100, Deduct</i>	-6.82	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.61	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.41	
			<i>For >100, Deduct</i>	-6.82	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	41.55	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.44	
			<i>For >100, Deduct</i>	-6.87	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	42.67	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.46	
			<i>For >100, Deduct</i>	-6.93	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.96	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.50	
			<i>For >100, Deduct</i>	-6.99	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	48.86	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.62	
			<i>For >100, Deduct</i>	-7.24	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.38	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.78	
			<i>For >100, Deduct</i>	-7.56	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	62.74	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.97	
			<i>For >100, Deduct</i>	-7.93	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	58.93	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.07	
			<i>For >100, Deduct</i>	-8.15	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	62.80	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.17	
			<i>For >100, Deduct</i>	-8.34	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	67.93	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.30	
			<i>For >100, Deduct</i>	-8.60	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	71.86	
			<i>For >10 To 50, Deduct</i>	-2.24	
			<i>For >50 To 100, Deduct</i>	-5.16	
			<i>For >100, Deduct</i>	-10.33	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	79.15	
			<i>For >10 To 50, Deduct</i>	-2.24	
			<i>For >50 To 100, Deduct</i>	-5.34	
			<i>For >100, Deduct</i>	-10.69	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	86.37	
			<i>For >10 To 50, Deduct</i>	-2.24	
			<i>For >50 To 100, Deduct</i>	-5.53	
			<i>For >100, Deduct</i>	-11.05	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	94.19	
			<i>For >10 To 50, Deduct</i>	-2.87	
			<i>For >50 To 100, Deduct</i>	-6.66	
			<i>For >100, Deduct</i>	-13.33	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	99.40	
			<i>For >10 To 50, Deduct</i>	-2.87	
			<i>For >50 To 100, Deduct</i>	-6.79	
			<i>For >100, Deduct</i>	-13.59	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.02	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.59	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.67	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA			1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.28	
				<i>For >10 To 50, Deduct</i>	-0.65	
				<i>For >50 To 100, Deduct</i>	-1.38	
				<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0044	EA			3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.40	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.63	
				<i>For >100, Deduct</i>	-3.27	
05 05 19 00-0045	EA			3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.89	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.64	
				<i>For >100, Deduct</i>	-3.29	
05 05 19 00-0046	EA			3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.24	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.65	
				<i>For >100, Deduct</i>	-3.31	
05 05 19 00-0047	EA			3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.90	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.72	
				<i>For >100, Deduct</i>	-3.44	
05 05 19 00-0048	EA			1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.35	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.39	
				<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0049	EA			1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.27	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.41	
				<i>For >100, Deduct</i>	-4.83	
05 05 19 00-0050	EA			1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.80	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.43	
				<i>For >100, Deduct</i>	-4.85	
05 05 19 00-0051	EA			1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.22	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.49	
				<i>For >100, Deduct</i>	-4.98	
05 05 19 00-0052	EA			1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.86	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.58	
				<i>For >100, Deduct</i>	-5.16	
05 05 19 00-0053	EA			5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.27	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.12	
				<i>For >100, Deduct</i>	-6.24	
05 05 19 00-0054	EA			5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	46.64	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.18	
				<i>For >100, Deduct</i>	-6.36	
05 05 19 00-0055	EA			5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	49.20	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.24	
				<i>For >100, Deduct</i>	-6.49	
05 05 19 00-0056	EA			5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.59	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.33	
				<i>For >100, Deduct</i>	-6.66	
05 05 19 00-0057	EA			5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.52	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.70	
				<i>For >100, Deduct</i>	-7.40	
05 05 19 00-0058	EA			3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.88	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.72	
				<i>For >100, Deduct</i>	-7.44	
05 05 19 00-0059	EA			3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.68	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.84	
				<i>For >100, Deduct</i>	-7.68	
05 05 19 00-0060	EA			3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	61.79	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.94	
				<i>For >100, Deduct</i>	-7.88	
05 05 19 00-0061	EA			3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	62.29	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.95	
				<i>For >100, Deduct</i>	-7.91	
05 05 19 00-0062	EA			3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	66.14	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-4.05	
				<i>For >100, Deduct</i>	-8.10	
05 05 19 00-0063	EA			3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	76.14	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-4.30	
				<i>For >100, Deduct</i>	-8.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	90.25	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-4.65	
			<i>For >100, Deduct</i>	-9.31	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	90.34	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.86	
			<i>For >100, Deduct</i>	-9.72	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	132.19	
			<i>For >10 To 50, Deduct</i>	-2.24	
			<i>For >50 To 100, Deduct</i>	-6.67	
			<i>For >100, Deduct</i>	-13.34	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	153.05	
			<i>For >10 To 50, Deduct</i>	-2.24	
			<i>For >50 To 100, Deduct</i>	-7.19	
			<i>For >100, Deduct</i>	-14.38	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.51	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.49	
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.98	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.34	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.82	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.69	
			<i>For >100, Deduct</i>	-3.39	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.04	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.70	
			<i>For >100, Deduct</i>	-3.40	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.04	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100, Deduct</i>	-3.60	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.18	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.97	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.51	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.73	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.65	
			<i>For >100, Deduct</i>	-5.30	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.78	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.68	
			<i>For >100, Deduct</i>	-5.35	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.20	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.44	
			<i>For >100, Deduct</i>	-6.89	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	58.47	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100, Deduct</i>	-6.95	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	70.97	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-4.17	
			<i>For >100, Deduct</i>	-8.34	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	76.24	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-4.30	
			<i>For >100, Deduct</i>	-8.61	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.55	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.32	
			<i>For >100, Deduct</i>	-4.64	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA			1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	29.07	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.36	
				<i>For >100, Deduct</i>	-4.72	
05 05 19 00-0086	EA			1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	30.60	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.40	
				<i>For >100, Deduct</i>	-4.79	
05 05 19 00-0087	EA			1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.36	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.42	
				<i>For >100, Deduct</i>	-4.83	
05 05 19 00-0088	EA			5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	37.83	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-2.96	
				<i>For >100, Deduct</i>	-5.92	
05 05 19 00-0089	EA			5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	35.99	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-2.91	
				<i>For >100, Deduct</i>	-5.83	
05 05 19 00-0090	EA			3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	49.04	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.62	
				<i>For >100, Deduct</i>	-7.25	
05 05 19 00-0091	EA			3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	50.72	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.67	
				<i>For >100, Deduct</i>	-7.33	
05 05 19 00-0092	EA			3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	58.96	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.87	
				<i>For >100, Deduct</i>	-7.74	
05 05 19 00-0093	EA			1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	62.45	
				<i>For >10 To 50, Deduct</i>	-2.24	
				<i>For >50 To 100, Deduct</i>	-4.93	
				<i>For >100, Deduct</i>	-9.85	
05 05 19 00-0094	EA			1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	67.20	
				<i>For >10 To 50, Deduct</i>	-2.24	
				<i>For >50 To 100, Deduct</i>	-5.05	
				<i>For >100, Deduct</i>	-10.09	
05 05 19 00-0095	EA			1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	71.90	
				<i>For >10 To 50, Deduct</i>	-2.24	
				<i>For >50 To 100, Deduct</i>	-5.16	
				<i>For >100, Deduct</i>	-10.33	
05 05 19 00-0096				Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097				Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
				Note: Includes nut and washer.		
05 05 19 00-0098	EA			1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.77	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.31	
				<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0099	EA			1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.05	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.32	
				<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0100	EA			1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.39	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.32	
				<i>For >100, Deduct</i>	-2.65	
05 05 19 00-0101	EA			5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.54	
				<i>For >10 To 50, Deduct</i>	-0.68	
				<i>For >50 To 100, Deduct</i>	-1.38	
				<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0102	EA			5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.80	
				<i>For >10 To 50, Deduct</i>	-0.68	
				<i>For >50 To 100, Deduct</i>	-1.38	
				<i>For >100, Deduct</i>	-2.77	
05 05 19 00-0103	EA			3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.48	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.56	
				<i>For >100, Deduct</i>	-3.12	
05 05 19 00-0104	EA			3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.95	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.57	
				<i>For >100, Deduct</i>	-3.14	
05 05 19 00-0105	EA			3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.40	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.58	
				<i>For >100, Deduct</i>	-3.16	
05 05 19 00-0106	EA			1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.91	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.23	
				<i>For >100, Deduct</i>	-4.46	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.50	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.48	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.01	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.26	
			<i>For >100, Deduct</i>	-4.51	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.62	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.27	
			<i>For >100, Deduct</i>	-4.54	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.22	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100, Deduct</i>	-5.54	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.11	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-2.79	
			<i>For >100, Deduct</i>	-5.58	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.79	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-2.81	
			<i>For >100, Deduct</i>	-5.62	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.71	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-2.86	
			<i>For >100, Deduct</i>	-5.71	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	37.58	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.67	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.24	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.38	
			<i>For >100, Deduct</i>	-6.75	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	40.74	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.41	
			<i>For >100, Deduct</i>	-6.83	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	43.13	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-3.47	
			<i>For >100, Deduct</i>	-6.95	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	15.89	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.36	
			<i>For >100, Deduct</i>	-2.72	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	20.95	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.34	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	23.20	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.73	
			<i>For >100, Deduct</i>	-3.45	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	31.34	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.41	
			<i>For >100, Deduct</i>	-4.83	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	35.38	
			<i>For >10 To 50, Deduct</i>	-1.09	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.03	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	48.81	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.23	
			<i>For >100, Deduct</i>	-6.47	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	15.13	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.69	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	15.60	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.35	
			<i>For >100, Deduct</i>	-2.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	16.22	
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.84	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	18.16	
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.93	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	18.60	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.61	
<i>For >100, Deduct</i>	-3.22	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	20.05	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100, Deduct</i>	-3.30	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	21.17	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100, Deduct</i>	-3.35	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	27.52	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.32	
<i>For >100, Deduct</i>	-4.64	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	28.39	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.34	
<i>For >100, Deduct</i>	-4.68	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	30.94	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.40	
<i>For >100, Deduct</i>	-4.81	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	34.25	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.49	
<i>For >100, Deduct</i>	-4.97	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	37.88	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-2.96	
<i>For >100, Deduct</i>	-5.92	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	40.93	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-3.04	
<i>For >100, Deduct</i>	-6.07	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	43.62	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-3.10	
<i>For >100, Deduct</i>	-6.21	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	50.30	
<i>For >10 To 50, Deduct</i>	-1.60	
<i>For >50 To 100, Deduct</i>	-3.65	
<i>For >100, Deduct</i>	-7.31	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	53.16	
<i>For >10 To 50, Deduct</i>	-1.60	
<i>For >50 To 100, Deduct</i>	-3.73	
<i>For >100, Deduct</i>	-7.45	
05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	19.11	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.64	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	23.41	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.22	
<i>For >100, Deduct</i>	-4.44	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	29.12	
<i>For >10 To 50, Deduct</i>	-1.29	
<i>For >50 To 100, Deduct</i>	-2.66	
<i>For >100, Deduct</i>	-5.31	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	33.62	
<i>For >10 To 50, Deduct</i>	-1.41	
<i>For >50 To 100, Deduct</i>	-2.96	
<i>For >100, Deduct</i>	-5.92	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	41.36	
<i>For >10 To 50, Deduct</i>	-1.61	
<i>For >50 To 100, Deduct</i>	-3.45	
<i>For >100, Deduct</i>	-6.89	
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0150	EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	23.57	
	For >10 To 50, Deduct	-0.89	
	For >50 To 100, Deduct	-1.93	
	For >100, Deduct	-3.86	
05 05 19 00-0151	EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	32.00	
	For >10 To 50, Deduct	-1.09	
	For >50 To 100, Deduct	-2.44	
	For >100, Deduct	-4.87	
05 05 19 00-0152	EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	40.17	
	For >10 To 50, Deduct	-1.29	
	For >50 To 100, Deduct	-2.93	
	For >100, Deduct	-5.87	
05 05 19 00-0153	EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	51.44	
	For >10 To 50, Deduct	-1.41	
	For >50 To 100, Deduct	-3.40	
	For >100, Deduct	-6.81	
05 05 19 00-0154	EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	72.00	
	For >10 To 50, Deduct	-1.61	
	For >50 To 100, Deduct	-4.21	
	For >100, Deduct	-8.42	
05 05 19 00-0155	Single Bolt Expansion Anchors (05 05 19 00-0002)		
	Note: Excludes bolt, nut and washer.		
05 05 19 00-0156	EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	14.18	
	For >10 To 50, Deduct	-0.64	
	For >50 To 100, Deduct	-1.32	
	For >100, Deduct	-2.64	
05 05 19 00-0157	EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.31	
	For >10 To 50, Deduct	-0.68	
	For >50 To 100, Deduct	-1.40	
	For >100, Deduct	-2.79	
05 05 19 00-0158	EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	17.30	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.58	
	For >100, Deduct	-3.16	
05 05 19 00-0159	EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	25.62	
	For >10 To 50, Deduct	-1.09	
	For >50 To 100, Deduct	-2.27	
	For >100, Deduct	-4.54	
05 05 19 00-0160	EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	37.51	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.95	
	For >100, Deduct	-5.90	
05 05 19 00-0161	EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	45.52	
	For >10 To 50, Deduct	-1.60	
	For >50 To 100, Deduct	-3.53	
	For >100, Deduct	-7.07	
05 05 19 00-0162	Concrete Lag Shield Anchors (05 05 19 00-0002)		
	Note: Excludes lag bolt and washer.		
05 05 19 00-0163	EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	13.89	
	For >10 To 50, Deduct	-0.64	
	For >50 To 100, Deduct	-1.31	
	For >100, Deduct	-2.62	
05 05 19 00-0164	EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	16.52	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.56	
	For >100, Deduct	-3.12	
05 05 19 00-0165	EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	17.35	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.58	
	For >100, Deduct	-3.16	
05 05 19 00-0166	EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	24.43	
	For >10 To 50, Deduct	-1.09	
	For >50 To 100, Deduct	-2.24	
	For >100, Deduct	-4.48	
05 05 19 00-0167	EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	35.68	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.91	
	For >100, Deduct	-5.81	
05 05 19 00-0168	EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	38.94	
	For >10 To 50, Deduct	-1.60	
	For >50 To 100, Deduct	-3.37	
	For >100, Deduct	-6.74	
05 05 19 00-0169	Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170	Chemically Adhered Anchor Rods (05 05 19 00-0169)		
	Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA			1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	19.54	
				<i>For >10 To 50, Deduct</i>	-0.71	
				<i>For >50 To 100, Deduct</i>	-1.55	
				<i>For >100, Deduct</i>	-3.10	
05 05 19 00-0172	EA			5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	23.29	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.74	
				<i>For >100, Deduct</i>	-3.48	
05 05 19 00-0173	EA			3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	28.84	
				<i>For >10 To 50, Deduct</i>	-0.96	
				<i>For >50 To 100, Deduct</i>	-2.17	
				<i>For >100, Deduct</i>	-4.34	
05 05 19 00-0174	EA			1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	34.34	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.49	
				<i>For >100, Deduct</i>	-4.98	
05 05 19 00-0175	EA			1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	37.21	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.56	
				<i>For >100, Deduct</i>	-5.12	
05 05 19 00-0176	EA			5/8" x 7" Long Chemically Adhered Anchor Rod.....	46.07	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.16	
				<i>For >100, Deduct</i>	-6.33	
05 05 19 00-0177	EA			3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	61.73	
				<i>For >10 To 50, Deduct</i>	-1.60	
				<i>For >50 To 100, Deduct</i>	-3.94	
				<i>For >100, Deduct</i>	-7.88	
05 05 19 00-0178	EA			7/8" x 10" Long Chemically Adhered Anchor Rod.....	75.29	
				<i>For >10 To 50, Deduct</i>	-1.73	
				<i>For >50 To 100, Deduct</i>	-4.48	
				<i>For >100, Deduct</i>	-8.95	
05 05 19 00-0179	EA			1" x 11-3/4" Long Chemically Adhered Anchor Rod	104.43	
				<i>For >10 To 50, Deduct</i>	-2.24	
				<i>For >50 To 100, Deduct</i>	-5.98	
				<i>For >100, Deduct</i>	-11.95	
05 05 19 00-0180	EA			1-1/4" x 14" Long Chemically Adhered Anchor Rod	154.97	
				<i>For >10 To 50, Deduct</i>	-2.83	
				<i>For >50 To 100, Deduct</i>	-8.12	
				<i>For >100, Deduct</i>	-16.23	
05 05 19 00-0181				Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
				Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger than the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA			5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	16.26	
				<i>For >10 To 50, Deduct</i>	-0.77	
				<i>For >50 To 100, Deduct</i>	-1.56	
				<i>For >100, Deduct</i>	-3.13	
05 05 19 00-0183	EA			3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	19.11	
				<i>For >10 To 50, Deduct</i>	-0.90	
				<i>For >50 To 100, Deduct</i>	-1.83	
				<i>For >100, Deduct</i>	-3.66	
05 05 19 00-0184	EA			1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	23.30	
				<i>For >10 To 50, Deduct</i>	-1.09	
				<i>For >50 To 100, Deduct</i>	-2.21	
				<i>For >100, Deduct</i>	-4.42	
05 05 19 00-0185	EA			5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.09	
				<i>For >10 To 50, Deduct</i>	-1.16	
				<i>For >50 To 100, Deduct</i>	-2.42	
				<i>For >100, Deduct</i>	-4.85	
05 05 19 00-0186	EA			3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	35.22	
				<i>For >10 To 50, Deduct</i>	-1.43	
				<i>For >50 To 100, Deduct</i>	-3.02	
				<i>For >100, Deduct</i>	-6.04	
05 05 19 00-0187	EA			7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	39.51	
				<i>For >10 To 50, Deduct</i>	-1.53	
				<i>For >50 To 100, Deduct</i>	-3.28	
				<i>For >100, Deduct</i>	-6.57	
05 05 19 00-0188	EA			1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	50.27	
				<i>For >10 To 50, Deduct</i>	-1.85	
				<i>For >50 To 100, Deduct</i>	-4.02	
				<i>For >100, Deduct</i>	-8.05	
05 05 19 00-0189	EA			1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	56.44	
				<i>For >10 To 50, Deduct</i>	-2.00	
				<i>For >50 To 100, Deduct</i>	-4.41	
				<i>For >100, Deduct</i>	-8.82	
05 05 19 00-0190	EA			1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	66.64	
				<i>For >10 To 50, Deduct</i>	-2.26	
				<i>For >50 To 100, Deduct</i>	-5.06	
				<i>For >100, Deduct</i>	-10.12	
05 05 19 00-0191	EA			1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	76.11	
				<i>For >10 To 50, Deduct</i>	-2.47	
				<i>For >50 To 100, Deduct</i>	-5.61	
				<i>For >100, Deduct</i>	-11.21	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	89.39	
			<i>For >10 To 50, Deduct</i>	-2.69	
			<i>For >50 To 100, Deduct</i>	-6.27	
			<i>For >100, Deduct</i>	-12.53	
05 05 19 00-0193	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	116.61	
			<i>For >10 To 50, Deduct</i>	-3.16	
			<i>For >50 To 100, Deduct</i>	-7.65	
			<i>For >100, Deduct</i>	-15.30	
05 05 19 00-0194	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	183.19	
			<i>For >10 To 50, Deduct</i>	-3.81	
			<i>For >50 To 100, Deduct</i>	-10.30	
			<i>For >100, Deduct</i>	-20.60	
05 05 19 00-0195			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.98	
			<i>For >10 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.49	
			<i>For >100, Deduct</i>	-0.97	
05 05 19 00-0197			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198			Tapcon Masonry Screws (05 05 19 00-0197)		
			Note: Includes drilling, Countersunk or hex head.		
05 05 19 00-0199	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	13.39	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.60	
05 05 19 00-0200	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	13.54	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0201	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	13.84	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.31	
			<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0202	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	13.56	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0203	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	13.73	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.31	
			<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0204	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	14.10	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0205			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0206	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	14.20	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 19 00-0207	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	14.69	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0208	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.82	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.67	
05 05 19 00-0209	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	15.05	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0210	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	15.25	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.35	
			<i>For >100, Deduct</i>	-2.69	
05 05 19 00-0211	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	15.67	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.36	
			<i>For >100, Deduct</i>	-2.71	
05 05 19 00-0212	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.19	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.37	
			<i>For >100, Deduct</i>	-2.74	
05 05 19 00-0213	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	16.67	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA			1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	18.01	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.41	
				For >100, Deduct	-2.83	
05 05 19 00-0215	EA			5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	18.17	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.42	
				For >100, Deduct	-2.84	
05 05 19 00-0216	EA			5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	18.98	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.44	
				For >100, Deduct	-2.88	
05 05 19 00-0217	EA			5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	19.82	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.46	
				For >100, Deduct	-2.92	
05 05 19 00-0218	EA			5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	20.36	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.47	
				For >100, Deduct	-2.95	
05 05 19 00-0219	EA			3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	20.12	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.47	
				For >100, Deduct	-2.94	
05 05 19 00-0220	EA			3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	20.90	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.49	
				For >100, Deduct	-2.97	
05 05 19 00-0221	EA			3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	22.71	
				For >10 To 50, Deduct	-0.64	
				For >50 To 100, Deduct	-1.53	
				For >100, Deduct	-3.06	
05 05 19 00-0222				Pin Bolt Drives (05 05 19 00-0197)		
				Note: Includes drilling. Zinc plated.		
05 05 19 00-0223	EA			1/4" x 1" Pin Bolt Drive.....	8.54	
				For >10 To 50, Deduct	-0.39	
				For >50 To 100, Deduct	-0.79	
				For >100, Deduct	-1.59	
05 05 19 00-0224	EA			1/4" x 1-1/4" Pin Bolt Drive.....	8.54	
				For >10 To 50, Deduct	-0.39	
				For >50 To 100, Deduct	-0.79	
				For >100, Deduct	-1.59	
05 05 19 00-0225	EA			1/4" x 1-1/2" Pin Bolt Drive.....	8.65	
				For >10 To 50, Deduct	-0.39	
				For >50 To 100, Deduct	-0.80	
				For >100, Deduct	-1.59	
05 05 19 00-0226	EA			1/4" x 2" Pin Bolt Drive.....	8.68	
				For >10 To 50, Deduct	-0.39	
				For >50 To 100, Deduct	-0.80	
				For >100, Deduct	-1.59	
05 05 19 00-0227				Powder Actuated, Shot-In Place Anchors (05 05 19 00-0197)		
05 05 19 00-0228	EA			0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	2.25	
				For >10 To 50, Deduct	-0.09	
				For >50 To 100, Deduct	-0.19	
				For >100, Deduct	-0.37	
05 05 19 00-0229	EA			0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	2.39	
				For >10 To 50, Deduct	-0.09	
				For >50 To 100, Deduct	-0.19	
				For >100, Deduct	-0.39	
05 05 19 00-0230	EA			0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	2.60	
				For >10 To 50, Deduct	-0.10	
				For >50 To 100, Deduct	-0.21	
				For >100, Deduct	-0.42	
05 05 19 00-0231	EA			0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.92	
				For >10 To 50, Deduct	-0.10	
				For >50 To 100, Deduct	-0.23	
				For >100, Deduct	-0.45	
05 05 19 00-0232	EA			0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	3.14	
				For >10 To 50, Deduct	-0.10	
				For >50 To 100, Deduct	-0.23	
				For >100, Deduct	-0.46	
05 05 19 00-0233				Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0197)		
05 05 19 00-0234	EA			0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.81	
				For >10 To 50, Deduct	-0.09	
				For >50 To 100, Deduct	-0.21	
				For >100, Deduct	-0.41	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0235	EA 0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	3.96	
	<i>For >10 To 50, Deduct</i>	-0.11	
	<i>For >50 To 100, Deduct</i>	-0.26	
	<i>For >100, Deduct</i>	-0.53	
05 05 21 Fastening Methods for Metal <small>(05 05)</small>			
05 05 21 00-0001	Welding <small>(05 05 21)</small>		
05 05 21 00-0002	Minimum Charge For Welding <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003	EA Welding Minimum Charge.....	488.69	
	Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004	Spot Welding <small>(05 05 21 00-0001)</small>		
	See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005	EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	12.25	
	<i>For Aluminum Welding, Add</i>	1.94	
	<i>For Stainless Steel Welding, Add</i>	3.19	
05 05 21 00-0006	EA >15 Spot Weldings, Welds Up To 1" Length Each.....	9.57	
	<i>For Aluminum Welding, Add</i>	1.54	
	<i>For Stainless Steel Welding, Add</i>	2.52	
05 05 21 00-0007	Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008	Vertical Fillet Welds <small>(05 05 21 00-0007)</small>		
	Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009	LF 1/8" Vertical Fillet Weld.....	7.95	
	<i>For Aluminum Welding, Add</i>	1.69	
	<i>For Stainless Steel Welding, Add</i>	2.61	
	<i>For Up To 25, Add</i>	2.58	
	<i>For >25 To 50, Add</i>	1.82	
05 05 21 00-0010	LF 3/16" Vertical Fillet Weld.....	15.28	
	<i>For Aluminum Welding, Add</i>	2.90	
	<i>For Stainless Steel Welding, Add</i>	4.59	
	<i>For Up To 25, Add</i>	5.09	
	<i>For >25 To 50, Add</i>	3.62	
05 05 21 00-0011	LF 1/4" Vertical Fillet Weld.....	22.94	
	<i>For Aluminum Welding, Add</i>	4.38	
	<i>For Stainless Steel Welding, Add</i>	6.91	
	<i>For Up To 25, Add</i>	7.64	
	<i>For >25 To 50, Add</i>	5.42	
05 05 21 00-0012	LF 5/16" Vertical Fillet Weld.....	30.27	
	<i>For Aluminum Welding, Add</i>	5.80	
	<i>For Stainless Steel Welding, Add</i>	9.14	
	<i>For Up To 25, Add</i>	10.07	
	<i>For >25 To 50, Add</i>	7.15	
05 05 21 00-0013	LF 3/8" Vertical Fillet Weld.....	38.21	
	<i>For Aluminum Welding, Add</i>	7.29	
	<i>For Stainless Steel Welding, Add</i>	11.50	
	<i>For Up To 25, Add</i>	12.73	
	<i>For >25 To 50, Add</i>	9.03	
05 05 21 00-0014	LF 7/16" Vertical Fillet Weld.....	44.25	
	<i>For Aluminum Welding, Add</i>	7.87	
	<i>For Stainless Steel Welding, Add</i>	12.60	
	<i>For Up To 25, Add</i>	14.98	
	<i>For >25 To 50, Add</i>	10.65	
05 05 21 00-0015	LF 1/2" Vertical Fillet Weld.....	52.27	
	<i>For Aluminum Welding, Add</i>	10.01	
	<i>For Stainless Steel Welding, Add</i>	15.78	
	<i>For Up To 25, Add</i>	17.39	
	<i>For >25 To 50, Add</i>	12.35	
05 05 21 00-0016	LF 9/16" Vertical Fillet Weld.....	60.90	
	<i>For Aluminum Welding, Add</i>	11.07	
	<i>For Stainless Steel Welding, Add</i>	17.65	
	<i>For Up To 25, Add</i>	20.51	
	<i>For >25 To 50, Add</i>	14.58	
05 05 21 00-0017	LF 5/8" Vertical Fillet Weld.....	70.64	
	<i>For Aluminum Welding, Add</i>	12.89	
	<i>For Stainless Steel Welding, Add</i>	20.53	
	<i>For Up To 25, Add</i>	23.77	
	<i>For >25 To 50, Add</i>	16.89	
05 05 21 00-0018	LF 3/4" Vertical Fillet Weld.....	95.65	
	<i>For Aluminum Welding, Add</i>	18.30	
	<i>For Stainless Steel Welding, Add</i>	28.85	
	<i>For Up To 25, Add</i>	31.83	
	<i>For >25 To 50, Add</i>	22.60	
05 05 21 00-0019	LF 7/8" Vertical Fillet Weld.....	140.93	
	<i>For Aluminum Welding, Add</i>	25.54	
	<i>For Stainless Steel Welding, Add</i>	40.73	
	<i>For Up To 25, Add</i>	47.49	
	<i>For >25 To 50, Add</i>	33.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0020 LF 1" Vertical Fillet Weld.....	190.43	
<i>For Aluminum Welding, Add</i>	35.94	
<i>For Stainless Steel Welding, Add</i>	56.83	
<i>For Up To 25, Add</i>	63.58	
<i>For >25 To 50, Add</i>	45.15	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....	6.73	
<i>For Aluminum Welding, Add</i>	1.51	
<i>For Stainless Steel Welding, Add</i>	2.31	
<i>For Up To 25, Add</i>	2.15	
<i>For >25 To 50, Add</i>	1.52	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....	13.00	
<i>For Aluminum Welding, Add</i>	2.60	
<i>For Stainless Steel Welding, Add</i>	4.06	
<i>For Up To 25, Add</i>	4.28	
<i>For >25 To 50, Add</i>	3.03	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....	19.44	
<i>For Aluminum Welding, Add</i>	3.89	
<i>For Stainless Steel Welding, Add</i>	6.08	
<i>For Up To 25, Add</i>	6.40	
<i>For >25 To 50, Add</i>	4.54	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....	25.70	
<i>For Aluminum Welding, Add</i>	5.18	
<i>For Stainless Steel Welding, Add</i>	8.08	
<i>For Up To 25, Add</i>	8.44	
<i>For >25 To 50, Add</i>	5.98	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....	32.41	
<i>For Aluminum Welding, Add</i>	6.48	
<i>For Stainless Steel Welding, Add</i>	10.12	
<i>For Up To 25, Add</i>	10.67	
<i>For >25 To 50, Add</i>	7.56	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....	37.34	
<i>For Aluminum Welding, Add</i>	6.90	
<i>For Stainless Steel Welding, Add</i>	10.96	
<i>For Up To 25, Add</i>	12.53	
<i>For >25 To 50, Add</i>	8.90	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....	44.30	
<i>For Aluminum Welding, Add</i>	8.91	
<i>For Stainless Steel Welding, Add</i>	13.90	
<i>For Up To 25, Add</i>	14.56	
<i>For >25 To 50, Add</i>	10.32	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....	51.55	
<i>For Aluminum Welding, Add</i>	9.80	
<i>For Stainless Steel Welding, Add</i>	15.48	
<i>For Up To 25, Add</i>	17.18	
<i>For >25 To 50, Add</i>	12.20	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....	60.14	
<i>For Aluminum Welding, Add</i>	11.70	
<i>For Stainless Steel Welding, Add</i>	18.39	
<i>For Up To 25, Add</i>	19.93	
<i>For >25 To 50, Add</i>	14.14	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....	81.16	
<i>For Aluminum Welding, Add</i>	16.31	
<i>For Stainless Steel Welding, Add</i>	25.47	
<i>For Up To 25, Add</i>	26.68	
<i>For >25 To 50, Add</i>	18.91	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	118.18	
<i>For Aluminum Welding, Add</i>	21.84	
<i>For Stainless Steel Welding, Add</i>	34.68	
<i>For Up To 25, Add</i>	39.65	
<i>For >25 To 50, Add</i>	28.18	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	160.95	
<i>For Aluminum Welding, Add</i>	31.87	
<i>For Stainless Steel Welding, Add</i>	49.90	
<i>For Up To 25, Add</i>	53.11	
<i>For >25 To 50, Add</i>	37.66	

05 05 23 Metal Fastenings (05 05)

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

05 05 23 00-0002 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	36.85	
<i>For Aluminum, Deduct</i>	-3.69	
<i>For Stainless Steel, Add</i>	4.61	
<i>For >5 To 10, Deduct</i>	-3.69	
<i>For >10 To 25, Deduct</i>	-9.21	
<i>For >25 To 50, Deduct</i>	-12.90	
<i>For >50, Deduct</i>	-18.43	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0003 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	49.36	
For Aluminum, Deduct	-4.94	
For Stainless Steel, Add	6.17	
For >5 To 10, Deduct	-4.94	
For >10 To 25, Deduct	-12.34	
For >25 To 50, Deduct	-17.28	
For >50, Deduct	-24.68	
05 05 23 00-0004 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	49.36	
For Aluminum, Deduct	-4.94	
For Stainless Steel, Add	6.17	
For >5 To 10, Deduct	-4.94	
For >10 To 25, Deduct	-12.34	
For >25 To 50, Deduct	-17.28	
For >50, Deduct	-24.68	
05 05 23 00-0005 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	32.90	
For Aluminum, Deduct	-3.29	
For Stainless Steel, Add	4.11	
For >5 To 10, Deduct	-3.29	
For >10 To 25, Deduct	-8.23	
For >25 To 50, Deduct	-11.52	
For >50, Deduct	-16.45	
05 05 23 00-0006 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	43.43	
For Aluminum, Deduct	-4.34	
For Stainless Steel, Add	5.43	
For >5 To 10, Deduct	-4.34	
For >10 To 25, Deduct	-10.86	
For >25 To 50, Deduct	-15.20	
For >50, Deduct	-21.72	
05 05 23 00-0007 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	52.64	
For >5 To 10, Deduct	-5.26	
For >10 To 25, Deduct	-13.16	
For >25 To 50, Deduct	-18.42	
For >50, Deduct	-26.32	
05 05 23 00-0008 Hex Bolts <small>(05 05 23)</small>		
Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0292 for drilling into brick or block, 02 41 19 13-0307 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.		
05 05 23 00-0009 A307B Heavy Hex Bolts <small>(05 05 23 00-0008)</small>		
Note: Includes A307B heavy hex nut and two structural washers.		
05 05 23 00-0010 Plain Finish A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0011 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt.....	14.27	1.37
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.42	
05 05 23 00-0012 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt.....	15.93	1.37
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.51	
05 05 23 00-0013 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	15.97	1.37
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.51	
05 05 23 00-0014 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	19.12	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.45	
For >100, Deduct	-2.91	
05 05 23 00-0015 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	18.76	1.37
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.65	
05 05 23 00-0016 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	22.59	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.08	
05 05 23 00-0017 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	29.02	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.49	
05 05 23 00-0018 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt.....	31.23	1.72
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.85	
For >100, Deduct	-3.71	
05 05 23 00-0019 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	22.69	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.49	
For >100, Deduct	-2.99	
05 05 23 00-0020 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	27.57	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.71	
For >100, Deduct	-3.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0021 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	32.72	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.89	
<i>For >100, Deduct</i>	-3.78	
05 05 23 00-0022 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	47.58	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.32	
<i>For >100, Deduct</i>	-4.63	
05 05 23 00-0023 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	55.80	2.03
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.67	
<i>For >100, Deduct</i>	-5.33	
05 05 23 00-0024 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	62.94	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.94	
<i>For >100, Deduct</i>	-5.87	
05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0026 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	15.08	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.46	
05 05 23 00-0027 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	16.47	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.27	
<i>For >100, Deduct</i>	-2.53	
05 05 23 00-0028 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	17.98	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.61	
05 05 23 00-0029 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	21.13	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0030 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	21.05	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.76	
05 05 23 00-0031 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	26.81	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100, Deduct</i>	-3.29	
05 05 23 00-0032 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	36.30	1.63
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.93	
<i>For >100, Deduct</i>	-3.85	
05 05 23 00-0033 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt	43.01	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.30	
05 05 23 00-0034 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	28.67	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.64	
<i>For >100, Deduct</i>	-3.29	
05 05 23 00-0035 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	34.31	1.63
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100, Deduct</i>	-3.75	
05 05 23 00-0036 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	41.42	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-2.11	
<i>For >100, Deduct</i>	-4.22	
05 05 23 00-0037 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	63.35	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.71	
<i>For >100, Deduct</i>	-5.42	
05 05 23 00-0038 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	62.85	2.03
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.84	
<i>For >100, Deduct</i>	-5.69	
05 05 23 00-0039 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	79.28	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-3.34	
<i>For >100, Deduct</i>	-6.69	
05 05 23 00-0040 A325 High Strength Structural Bolts <small>(05 05 23 00-0008)</small>		
Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts <small>(05 05 23 00-0040)</small>		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0042 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt	13.88	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.20	
<i>For >100, Deduct</i>	-2.40	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0043	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	14.25	1.37
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	
05 05 23 00-0044	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.43	1.37
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.48	
05 05 23 00-0045	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.15	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.91	
05 05 23 00-0046	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.53	1.63
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.58	
			<i>For >100, Deduct</i>	-3.17	
05 05 23 00-0047	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.05	1.37
			<i>For >10 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.56	
05 05 23 00-0048	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	20.89	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-2.99	
05 05 23 00-0049	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.06	1.63
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.62	
			<i>For >100, Deduct</i>	-3.24	
05 05 23 00-0050	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	30.19	1.72
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.83	
			<i>For >100, Deduct</i>	-3.65	
05 05 23 00-0051	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	20.01	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.85	
05 05 23 00-0052	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	24.72	1.63
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.64	
			<i>For >100, Deduct</i>	-3.27	
05 05 23 00-0053	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	28.50	1.72
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.79	
			<i>For >100, Deduct</i>	-3.57	
05 05 23 00-0054	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	31.00	1.80
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.90	
			<i>For >100, Deduct</i>	-3.80	
05 05 23 00-0055	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	22.30	1.54
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.04	
05 05 23 00-0056	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	27.12	1.72
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.75	
			<i>For >100, Deduct</i>	-3.50	
05 05 23 00-0057	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	31.78	1.80
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.92	
			<i>For >100, Deduct</i>	-3.84	
05 05 23 00-0058	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	41.49	1.92
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.47	
05 05 23 00-0059	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	39.43	1.92
			<i>For >10 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.19	
			<i>For >100, Deduct</i>	-4.37	
05 05 23 00-0060	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	44.96	2.03
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100, Deduct</i>	-4.79	
05 05 23 00-0061	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	53.19	2.18
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.69	
			<i>For >100, Deduct</i>	-5.39	
05 05 23 00-0062	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	62.93	2.33
			<i>For >10 To 50, Deduct</i>	-0.97	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.06	

05 05 23 00-0063 Galvanized A325 High Strength Structural Bolts (05 05 23 00-0040)

Note: Includes A325 heavy hex nut and structural washer.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0064 EA 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt	14.62	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.44	
05 05 23 00-0065 EA 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	14.88	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.45	
05 05 23 00-0066 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	16.97	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100, Deduct</i>	-2.56	
05 05 23 00-0067 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	20.25	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.96	
05 05 23 00-0068 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	21.47	1.63
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0069 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	17.77	1.37
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.60	
05 05 23 00-0070 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	21.79	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.52	
<i>For >100, Deduct</i>	-3.04	
05 05 23 00-0071 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	25.46	1.63
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.31	
05 05 23 00-0072 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	33.50	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.91	
<i>For >100, Deduct</i>	-3.82	
05 05 23 00-0073 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	24.28	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100, Deduct</i>	-3.07	
05 05 23 00-0074 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	27.24	1.63
<i>For >10 To 50, Deduct</i>	-0.68	
<i>For >50 To 100, Deduct</i>	-1.70	
<i>For >100, Deduct</i>	-3.40	
05 05 23 00-0075 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	31.56	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.86	
<i>For >100, Deduct</i>	-3.72	
05 05 23 00-0076 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	40.18	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.13	
<i>For >100, Deduct</i>	-4.26	
05 05 23 00-0077 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	25.62	1.54
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.60	
<i>For >100, Deduct</i>	-3.21	
05 05 23 00-0078 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	34.73	1.72
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.94	
<i>For >100, Deduct</i>	-3.88	
05 05 23 00-0079 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	38.16	1.80
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.08	
<i>For >100, Deduct</i>	-4.16	
05 05 23 00-0080 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	49.34	1.92
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.43	
<i>For >100, Deduct</i>	-4.87	
05 05 23 00-0081 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	49.02	1.92
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.43	
<i>For >100, Deduct</i>	-4.85	
05 05 23 00-0082 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	52.28	2.03
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.58	
<i>For >100, Deduct</i>	-5.16	
05 05 23 00-0083 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	61.59	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.90	
<i>For >100, Deduct</i>	-5.81	
05 05 23 00-0084 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	71.69	2.33
<i>For >10 To 50, Deduct</i>	-0.97	
<i>For >50 To 100, Deduct</i>	-3.25	
<i>For >100, Deduct</i>	-6.49	

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0085	A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small> Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0086	Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>		
05 05 23 00-0087	EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.01	1.37
	For >10 To 50, Deduct	-0.57	
	For >50 To 100, Deduct	-1.25	
	For >100, Deduct	-2.51	
05 05 23 00-0088	EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.14	1.56
	For >10 To 50, Deduct	-0.65	
	For >50 To 100, Deduct	-1.55	
	For >100, Deduct	-3.11	
05 05 23 00-0089	EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	24.82	1.63
	For >10 To 50, Deduct	-0.68	
	For >50 To 100, Deduct	-1.64	
	For >100, Deduct	-3.28	
05 05 23 00-0090	EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	18.26	1.37
	For >10 To 50, Deduct	-0.57	
	For >50 To 100, Deduct	-1.31	
	For >100, Deduct	-2.62	
05 05 23 00-0091	EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	22.27	1.56
	For >10 To 50, Deduct	-0.65	
	For >50 To 100, Deduct	-1.53	
	For >100, Deduct	-3.06	
05 05 23 00-0092	EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	26.28	1.63
	For >10 To 50, Deduct	-0.68	
	For >50 To 100, Deduct	-1.68	
	For >100, Deduct	-3.35	
05 05 23 00-0093	EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	34.50	1.72
	For >10 To 50, Deduct	-0.72	
	For >50 To 100, Deduct	-1.94	
	For >100, Deduct	-3.87	
05 05 23 00-0094	EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	21.40	1.48
	For >10 To 50, Deduct	-0.62	
	For >50 To 100, Deduct	-1.46	
	For >100, Deduct	-2.92	
05 05 23 00-0095	EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	25.16	1.63
	For >10 To 50, Deduct	-0.68	
	For >50 To 100, Deduct	-1.65	
	For >100, Deduct	-3.29	
05 05 23 00-0096	EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	37.49	1.72
	For >10 To 50, Deduct	-0.72	
	For >50 To 100, Deduct	-2.01	
	For >100, Deduct	-4.02	
05 05 23 00-0097	EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	25.55	1.54
	For >10 To 50, Deduct	-0.64	
	For >50 To 100, Deduct	-1.60	
	For >100, Deduct	-3.20	
05 05 23 00-0098	EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	30.76	1.72
	For >10 To 50, Deduct	-0.72	
	For >50 To 100, Deduct	-1.84	
	For >100, Deduct	-3.68	
05 05 23 00-0099	EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	35.71	1.80
	For >10 To 50, Deduct	-0.75	
	For >50 To 100, Deduct	-2.02	
	For >100, Deduct	-4.04	
05 05 23 00-0100	EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	45.23	1.92
	For >10 To 50, Deduct	-0.80	
	For >50 To 100, Deduct	-2.33	
	For >100, Deduct	-4.66	
05 05 23 00-0101	EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	58.80	2.03
	For >10 To 50, Deduct	-0.85	
	For >50 To 100, Deduct	-2.74	
	For >100, Deduct	-5.48	
05 05 23 00-0102	EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	61.81	2.18
	For >10 To 50, Deduct	-0.91	
	For >50 To 100, Deduct	-2.91	
	For >100, Deduct	-5.82	
05 05 23 00-0103	EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	64.41	2.33
	For >10 To 50, Deduct	-0.97	
	For >50 To 100, Deduct	-3.06	
	For >100, Deduct	-6.13	
05 05 23 00-0104	Hex Head Bolts <small>(05 05 23 00-0008)</small>		
05 05 23 00-0105	Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0106	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0107	EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.01	
	For >500, Deduct	-2.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.29	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0110 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0111 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.62	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0112 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.66	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0113 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0114 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0115 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0116 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.31	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0117 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.70	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0118 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.86	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0119 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.09	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0120 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.82	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0121 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.17	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0122 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.27	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0123 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0124 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0125 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0126 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0127 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0128 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.72	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0129	EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0130	EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0131	EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0132	EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.51	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0133	EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.59	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0134	EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0135	EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.97	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0136	EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0137	EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0138	EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.75	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0139	EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.07	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0140	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts ^{05 05} _{23 00-0105}		
05 05 23 00-0141	EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.35	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0142	EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.38	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0143	EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.49	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0144	EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0145	EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.90	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0146	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0147	EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0148	EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.69	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0149	EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.54	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0152 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0153 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0154 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.07	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0155 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.22	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0156 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0158 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0159 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.09	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0160 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.11	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0161 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.54	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0162 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0163 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.95	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0164 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0165 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.81	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0166 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.08	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0167 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.76	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0168 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.89	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0169 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.23	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0170 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.62	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0171	EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.93	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0172	EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0173	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
05 05 23 00-0174	EA <small>23 00-0105</small> 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0175	EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0176	EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0177	EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.61	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0178	EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.79	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0179	EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.98	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0180	EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.46	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0181	EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0182	EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.05	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0183	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0184	EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.37	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0185	EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.69	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0186	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.22	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0187	EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.42	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0188	EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.97	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0189	EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.47	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0190	EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.67	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0191	EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.44	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.66	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0194 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.00	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0195 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0196 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.31	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0197 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.35	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0198 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0199 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.78	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0200 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.05	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0201 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.13	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0202 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.40	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0203 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.69	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0204 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.77	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0205 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.01	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0206 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.51	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0207 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0208 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.09	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0209 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.57	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0210 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.91	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0211 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.14	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0212 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.49	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0213			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.69	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0215	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0216	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.07	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0217	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.59	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0218	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0219	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.31	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0220	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.04	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0221	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.65	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0222	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.13	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0223	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.55	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0224	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.61	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0225	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.42	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0226	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.11	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0227	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.75	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0228	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.50	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0229	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.54	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0230	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.27	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0231	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.02	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0232	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.60	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0233			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.24	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0235 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.57	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0236 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.88	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0237 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.49	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0238 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.96	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0239 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.38	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0240 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.06	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0241 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.64	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0242 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.10	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0243 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.28	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0244 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.66	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0245 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.38	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0246 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.65	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0247 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.33	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0248 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.11	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0249 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.36	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0250 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.14	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0251 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.18	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0252 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.19	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0253 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0254 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.14	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0255 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.42	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0256	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.56	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0257	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.17	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0258	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.93	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0259	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.82	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0260	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.79	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0261	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.09	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0262	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.81	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0263	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.59	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0264	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.02	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0265	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.04	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0266	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.31	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0267	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.35	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0268	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.37	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0269	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.56	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0270	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.64	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0271	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.64	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0272	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.70	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0273			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0274	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.40	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0275	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.27	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0276	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.68	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0277 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.16	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0278 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.50	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0279 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.12	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0280 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.42	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0281 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.76	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0282 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.65	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0283 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.30	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0284 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.43	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0285 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.79	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0286 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.91	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0287 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.07	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0288 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.23	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0289 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.54	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0290 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.70	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0291 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	37.88	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0292 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0293 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0294 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.23	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0295 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.29	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0296 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.34	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0297 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.44	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0298 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.76	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0299	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.94	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0300	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.13	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0301	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.51	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0302	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.75	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0303	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.91	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0304	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.31	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0305	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.46	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0306	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.61	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0307	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.05	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0308	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.27	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0309	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.48	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0310			5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0311	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.35	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0312	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.39	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0313	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.46	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0314	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.60	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0315	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.92	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0316	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.09	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0317	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.38	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0318	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.76	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0319	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.00	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0320 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.21	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0321 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.87	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0322 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.95	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0323 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.24	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0324 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.86	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0325 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.26	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0326 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.64	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0327 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0328 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.41	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0329 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.45	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0330 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.58	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0331 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.72	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0332 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.10	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0333 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.26	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0334 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.52	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0335 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.03	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0336 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.64	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0337 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.92	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0338 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.51	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0339 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.77	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0340 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.23	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0341	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0342	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.42	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0343	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.91	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0344			7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0345	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.83	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0346	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.95	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0347	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.27	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0348	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.74	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0349	EA		7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.97	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0350	EA		7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.18	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0351	EA		7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.69	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0352	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.89	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0353	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.43	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0354	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.82	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0355	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.07	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0356	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.33	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0357	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.92	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0358	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.27	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0359	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.62	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0360			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0361	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.99	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0362 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.16	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0363 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.34	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0364 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.86	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0365 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.13	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0366 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.43	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0367 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.91	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0368 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.86	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0369 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.92	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0370 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.79	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0371 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.16	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0372 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.11	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0373 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.20	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0374 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.74	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0375 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.93	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0376 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.13	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0377 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.06	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0378 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.37	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0379 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.88	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0380 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0381 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.51	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0382 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.81	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0383	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.09	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0384	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.62	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0385	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.01	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0386	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.43	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0387	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.15	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0388	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.80	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0389	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.23	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0390	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.93	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0391	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.39	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0392	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.91	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0393	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.03	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0394	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.66	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0395	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.71	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0396	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.92	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0397	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.31	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0398	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.69	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0399	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.63	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0400			5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0401	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.98	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0402	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.09	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0403	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.18	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0404 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.70	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0405 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.20	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0406 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.66	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0407 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.36	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0408 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.25	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0409 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.72	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0410 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.20	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0411 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.96	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0412 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.16	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0413 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.49	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0414 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.49	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0415 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.64	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0416 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.67	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0417 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.01	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0418 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.98	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0419 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.67	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0420 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0421 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.11	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0422 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.31	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0423 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.41	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0424 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.07	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0425	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.57	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0426	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.34	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0427	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.09	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0428	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.58	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0429	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.61	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0430	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.32	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0431	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.17	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0432	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.21	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0433	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.92	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0434	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.00	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0435	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.62	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0436	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.46	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0437	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.01	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0438	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.80	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0439	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.24	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0440			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)	15.68	
05 05 23 00-0441	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.68	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0442	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.92	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0443	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.26	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0444	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.82	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0445	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.83	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0446 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.50	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0447 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.24	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0448 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.43	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0449 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.33	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0450 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.98	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0451 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.72	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0452 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.93	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0453 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.31	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0454 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.72	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0455 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.81	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0456 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.07	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0457 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.44	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0458 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.62	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0459 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	34.80	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0460 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0461 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.92	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0462 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.00	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0463 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.98	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0464 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.95	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0465 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.67	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0466 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.82	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0467	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.96	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0468	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.63	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0469	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.04	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0470	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.39	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0471	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.71	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0472	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.44	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0473	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.92	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0474	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.62	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0475	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	41.77	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0476	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	42.40	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0477	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	44.09	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0478	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	45.25	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0479			Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0480			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0481	EA		1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.26	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0482	EA		1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.38	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0483	EA		1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.44	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0484	EA		1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.57	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0485	EA		1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.87	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0486	EA		1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.01	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0487	EA		1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.14	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0488	EA		1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.38	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0489 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.76	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0490 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.12	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0491 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.54	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0492 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.74	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0493 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.98	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0494 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.39	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0495 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.86	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0496 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.07	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0497 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0498 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.37	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0499 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.44	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0500 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.67	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0501 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.71	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0502 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.06	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0503 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.40	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0504 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.50	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0505 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.93	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0506 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.14	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0507 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.63	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0508 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.15	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0509 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.33	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0510	EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.62	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0511	EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.06	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0512	EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.27	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0513	EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.68	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0514	3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0515	EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.61	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0516	EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.64	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0517	EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.65	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0518	EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.92	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0519	EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.29	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0520	EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.56	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0521	EA 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.80	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0522	EA 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.80	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0523	EA 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.10	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0524	EA 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.16	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0525	EA 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.51	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0526	EA 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.85	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0527	EA 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.35	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0528	EA 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.94	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0529	EA 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.61	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0530	EA 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.18	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0531 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0532 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.01	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0533 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.05	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0534 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.47	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0535 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.74	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0536 EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.21	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0537 EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.47	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0538 EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.75	
For >100 To 250, Deduct	-1.93	
For >250 To 500, Deduct	-2.41	
For >500, Deduct	-2.89	
05 05 23 00-0539 EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.80	
For >100 To 250, Deduct	-1.93	
For >250 To 500, Deduct	-2.41	
For >500, Deduct	-2.89	
05 05 23 00-0540 EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.62	
For >100 To 250, Deduct	-1.93	
For >250 To 500, Deduct	-2.41	
For >500, Deduct	-2.89	
05 05 23 00-0541 EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.40	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0542 EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.69	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0543 EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.12	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0544 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.00	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0545 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.39	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0546 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.50	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0547 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0548 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.28	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0549 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.59	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0550 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.78	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.75	
05 05 23 00-0551 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.21	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0552 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.55	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0553	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.31	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0554	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.07	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0555	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.52	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0556	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.84	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0557	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.62	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0558	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.58	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0559	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.46	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0560	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.47	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0561	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.86	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0562	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.96	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0563	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.02	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0564	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.81	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0565	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.22	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0566	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.19	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0567			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0568	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.57	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0569	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.75	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0570	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.18	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0571	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.04	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0572	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.19	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0573	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.81	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0574 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.46	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0575 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.50	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0576 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.90	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0577 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.45	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0578 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.33	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0579 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.68	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0580 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.84	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0581 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.68	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0582 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.95	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0583 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0584 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.38	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0585 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.56	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0586 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.03	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0587 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.95	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0588 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.51	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0589 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.82	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0590 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.26	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0591 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.27	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0592 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.71	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0593 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.42	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0594 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.89	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0595	EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.88	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0596	EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.46	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0597	EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.59	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0598	EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.07	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0599	EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.30	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0600	EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.51	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0601	EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.68	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0602	EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.74	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0603	3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0604	EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.43	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0605	EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.63	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0606	EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.76	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0607	EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.28	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0608	EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.70	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0609	EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.90	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0610	EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.64	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0611	EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.74	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0612	EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.38	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0613	EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.20	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0614	EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.06	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0615	EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.66	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0616 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.84	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0617 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.70	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0618 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.14	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0619 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.48	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0620 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.04	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0621 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.15	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0622 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.56	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0623 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0624 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.48	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0625 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.01	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0626 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.02	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0627 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.61	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0628 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.79	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0629 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.36	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0630 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.19	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0631 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.17	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0632 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	28.66	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0633 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.10	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0634 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	33.81	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0635 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.28	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0636 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	39.10	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0637	EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	40.64	
	<i>For >100 To 250, Deduct</i>	-2.48	
	<i>For >250 To 500, Deduct</i>	-3.10	
	<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0638	EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	42.11	
	<i>For >100 To 250, Deduct</i>	-2.53	
	<i>For >250 To 500, Deduct</i>	-3.16	
	<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0639	EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	42.55	
	<i>For >100 To 250, Deduct</i>	-2.53	
	<i>For >250 To 500, Deduct</i>	-3.16	
	<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0640	EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	42.93	
	<i>For >100 To 250, Deduct</i>	-2.53	
	<i>For >250 To 500, Deduct</i>	-3.16	
	<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0641	EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	43.85	
	<i>For >100 To 250, Deduct</i>	-2.53	
	<i>For >250 To 500, Deduct</i>	-3.16	
	<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0642	1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0643	EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.99	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0644	EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.32	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0645	EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.13	
	<i>For >100 To 250, Deduct</i>	-2.34	
	<i>For >250 To 500, Deduct</i>	-2.93	
	<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0646	EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.12	
	<i>For >100 To 250, Deduct</i>	-2.34	
	<i>For >250 To 500, Deduct</i>	-2.93	
	<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0647	EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.98	
	<i>For >100 To 250, Deduct</i>	-2.34	
	<i>For >250 To 500, Deduct</i>	-2.93	
	<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0648	EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.70	
	<i>For >100 To 250, Deduct</i>	-2.39	
	<i>For >250 To 500, Deduct</i>	-2.99	
	<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0649	EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.30	
	<i>For >100 To 250, Deduct</i>	-2.39	
	<i>For >250 To 500, Deduct</i>	-2.99	
	<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0650	EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.44	
	<i>For >100 To 250, Deduct</i>	-2.39	
	<i>For >250 To 500, Deduct</i>	-2.99	
	<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0651	EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.67	
	<i>For >100 To 250, Deduct</i>	-2.43	
	<i>For >250 To 500, Deduct</i>	-3.04	
	<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0652	EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.57	
	<i>For >100 To 250, Deduct</i>	-2.43	
	<i>For >250 To 500, Deduct</i>	-3.04	
	<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0653	EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	35.04	
	<i>For >100 To 250, Deduct</i>	-2.43	
	<i>For >250 To 500, Deduct</i>	-3.04	
	<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0654	EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.97	
	<i>For >100 To 250, Deduct</i>	-2.48	
	<i>For >250 To 500, Deduct</i>	-3.10	
	<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0655	EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	41.02	
	<i>For >100 To 250, Deduct</i>	-2.48	
	<i>For >250 To 500, Deduct</i>	-3.10	
	<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0656	EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	41.89	
	<i>For >100 To 250, Deduct</i>	-2.48	
	<i>For >250 To 500, Deduct</i>	-3.10	
	<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0657	EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.81	
	<i>For >100 To 250, Deduct</i>	-2.53	
	<i>For >250 To 500, Deduct</i>	-3.16	
	<i>For >500, Deduct</i>	-3.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	46.28	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0659 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	50.12	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0660 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	52.47	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0661 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0662 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0663 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0664 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.44	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0665 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0666 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.74	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0667 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0668 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0669 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0670 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0671 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0672 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0673 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0674 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.34	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0675 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.40	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0676 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.79	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0677 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.25	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0678 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.83	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0679 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0680 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.30	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0681 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.82	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0682 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0683 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0684 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0685 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0686 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0687 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.31	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.55	
05 05 23 00-0688 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.55	
05 05 23 00-0689 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.75	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.55	
05 05 23 00-0690 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.09	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.18	
For >500, Deduct	-2.62	
05 05 23 00-0691 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.18	
For >500, Deduct	-2.62	
05 05 23 00-0692 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.62	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.18	
For >500, Deduct	-2.62	
05 05 23 00-0693 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.62	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0694 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.23	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0695 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0696 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0697 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0698 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0699 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.71	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.03	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0701 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0702 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.66	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0703 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0704 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.34	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0705 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.47	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0706 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.80	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0707 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.16	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0708 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0709 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.68	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0710 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0711 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0712 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.52	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0713 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0714 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.39	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0715 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.97	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0716 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.41	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0717 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.39	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0718 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.42	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0719 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.46	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0720 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.06	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0721	EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.47	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0722	EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.84	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0723	EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.48	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0724	EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.91	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0725 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>			
05 05 23 00-0726	EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.14	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0727	EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0728	EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.70	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0729	EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0730	EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.65	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0731	EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0732	EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.51	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0733	EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.71	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0734	EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.14	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0735	EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.56	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0736	EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.04	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0737	EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.08	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0738	EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.41	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0739	EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0740	EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.90	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0741	EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.83	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.12	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0743 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.18	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0744 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.35	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0745 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0746 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.96	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0747 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0748 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.45	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0749 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.00	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0750 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.43	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0751 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.38	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0752 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.76	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0753 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.93	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0754 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.22	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0755 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.83	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0756 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.16	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0757 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.14	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0758 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.43	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0759 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.14	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0760 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.65	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0761 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.59	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0762 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.40	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0763	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.25	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0764	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.39	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0765 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>					
05 05 23 00-0766	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.35	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0767	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.41	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0768	EA		3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.76	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0769	EA		3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.79	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0770	EA		3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.12	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0771	EA		3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.97	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0772	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.66	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0773	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.74	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0774	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.92	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0775	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.27	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0776	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.40	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0777	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.87	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.76	
			<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0778	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.02	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0779	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.17	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0780	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.63	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-2.81	
			<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0781	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.55	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0782	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.04	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0783	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.31	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0784 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.45	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0785 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0786 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.27	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0787 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.82	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0788 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.35	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0789 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.21	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0790 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.63	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0791 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.41	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0792 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.01	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0793 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.77	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0794 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.53	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0795 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.12	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0796 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.84	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0797 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.73	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0798 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.83	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0799 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.09	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0800 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.63	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0801 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.24	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0802 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.00	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0803 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.72	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	

05 05 23 00-0804 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex
Head Bolts (05 05 23 00-0661)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0805	EA		1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.10	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0806	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.50	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0807	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.52	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0808	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.33	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0809	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.40	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0810	EA		1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.82	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0811	EA		1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.01	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0812	EA		1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.35	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0813	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.79	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0814	EA		1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.84	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0815	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.84	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0816	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.54	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0817	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.21	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0818	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.95	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0819	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	38.31	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0820	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	39.34	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0821	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	40.87	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0822			304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0823			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0824	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.40	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0825	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.54	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0826	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.72	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0827 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.91	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0828 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.32	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0829 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.60	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0830 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.94	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0831 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.42	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0832 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.83	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0833 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.21	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0834 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.75	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0835 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.37	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0836 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.85	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0837 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.75	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0838 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.10	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0839 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.94	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0840 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0841 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.66	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0842 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.79	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0843 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.06	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0844 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.27	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0845 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.89	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0846 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.02	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0847 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.72	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0848	EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.44	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0849	EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.22	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0850	EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.61	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0851	EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.03	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0852	EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.99	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0853	EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.44	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0854	EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.89	
	<i>For >100 To 250, Deduct</i>	-1.79	
	<i>For >250 To 500, Deduct</i>	-2.24	
	<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0855	3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0856	EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.99	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0857	EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.16	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0858	EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.58	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0859	EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.11	
	<i>For >100 To 250, Deduct</i>	-1.61	
	<i>For >250 To 500, Deduct</i>	-2.01	
	<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0860	EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.60	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0861	EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.03	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0862	EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.60	
	<i>For >100 To 250, Deduct</i>	-1.65	
	<i>For >250 To 500, Deduct</i>	-2.07	
	<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0863	EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.34	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0864	EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.00	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0865	EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.47	
	<i>For >100 To 250, Deduct</i>	-1.70	
	<i>For >250 To 500, Deduct</i>	-2.12	
	<i>For >500, Deduct</i>	-2.55	
05 05 23 00-0866	EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.87	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0867	EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.08	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	
05 05 23 00-0868	EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.66	
	<i>For >100 To 250, Deduct</i>	-1.74	
	<i>For >250 To 500, Deduct</i>	-2.18	
	<i>For >500, Deduct</i>	-2.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0869 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.51	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0870 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.88	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0871 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.46	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-0872 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0873 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.50	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0874 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.68	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0875 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.36	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0876 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.00	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0877 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.82	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0878 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0879 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.05	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0880 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.65	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0881 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.35	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0882 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.77	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0883 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.21	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0884 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.54	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0885 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.08	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0886 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0887 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.48	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0888 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.68	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0889 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.75	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0890	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.41	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0891	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.39	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0892	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.92	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0893	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.79	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0894	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.26	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0895	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.82	
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-2.41	
			<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0896	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.75	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0897	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.91	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0898	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.21	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0899	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.39	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0900	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.17	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0901	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.40	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0902	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.64	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0903	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.13	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0904	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.52	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0905	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.90	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0906			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>	17.11	
05 05 23 00-0907	EA		9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.11	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0908	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.34	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0909	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.24	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.75	
05 05 23 00-0910	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.26	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0911 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.64	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0912 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.06	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0913 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.85	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0914 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.40	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0915 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.51	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-0916 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.15	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-0917 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.88	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
 05 05 23 00-0918 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0919 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.53	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0920 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.04	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0921 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.17	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0922 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.75	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0923 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.76	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0924 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.21	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0925 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.26	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0926 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.28	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0927 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.90	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0928 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.04	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0929 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.51	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0930 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.86	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0931 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.02	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0932	EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.44	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0933	EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.54	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0934	EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.24	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0935	EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.67	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0936	EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.03	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0937	EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.65	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0938	3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0939	EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.85	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0940	EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.85	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0941	EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.16	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0942	EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.81	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0943	EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.26	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0944	EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.70	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-0945	EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.38	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0946	EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.64	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0947	EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.46	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0948	EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.56	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0949	EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.67	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0950	EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.64	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-0951	EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.40	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0952	EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.76	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0953 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.95	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-0954 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.51	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0955 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.64	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0956 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	64.71	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0957 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.07	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0958 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0959 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.25	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0960 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.74	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0961 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.86	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0962 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.38	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0963 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.20	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0964 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.50	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0965 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.30	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0966 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.79	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0967 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.83	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0968 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.94	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0969 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	55.56	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0970 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.26	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0971 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	65.47	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0972 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.67	
<i>For >100 To 250, Deduct</i>	-2.48	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0973 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	82.66	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0974	EA		7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	92.87	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0975	EA		7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	97.60	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0976	EA		7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	102.31	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0977			1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0978	EA		1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.27	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0979	EA		1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.09	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-0980	EA		1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.01	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0981	EA		1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.30	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0982	EA		1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.05	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-0983	EA		1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.50	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0984	EA		1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.12	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0985	EA		1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.98	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-0986	EA		1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	55.84	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0987	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.05	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0988	EA		1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.42	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-0989	EA		1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	79.79	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0990	EA		1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	81.74	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0991	EA		1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	83.70	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-0992	EA		1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	87.83	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0993	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	93.83	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0994	EA		1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	121.04	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	152.74	
<i>For >100 To 250, Deduct</i>	-2.53	
<i>For >250 To 500, Deduct</i>	-3.16	
<i>For >500, Deduct</i>	-3.79	
05 05 23 00-0996 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0997 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-0998 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.67	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-0999 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.96	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1000 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.17	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1001 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.31	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1002 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.94	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1003 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.31	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1004 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.68	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1005 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.21	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1006 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.52	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1007 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.65	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1008 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.84	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1009 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	13.10	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1010 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	22.63	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1011 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	34.41	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1012 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	59.84	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1013 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	65.64	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1014 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1015 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.06	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1016 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	9.39	
<i>For >100 To 250, Deduct</i>	-1.61	
<i>For >250 To 500, Deduct</i>	-2.01	
<i>For >500, Deduct</i>	-2.41	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1017	EA		5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.93	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1018	EA		5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	10.34	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1019	EA		5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.74	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1020	EA		5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	11.58	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1021	EA		5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.17	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1022	EA		5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	12.65	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1023	EA		5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.90	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1024	EA		5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	14.15	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1025	EA		5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.26	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1026	EA		5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	16.24	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1027	EA		5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.35	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1028	EA		5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	36.11	
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1029			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>	9.92	
05 05 23 00-1030	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.92	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1031	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.05	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1032	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.56	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1033	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.77	
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.01	
			<i>For >500, Deduct</i>	-2.41	
05 05 23 00-1034	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.42	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1035	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.64	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1036	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.69	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-1037	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	14.08	
			<i>For >100 To 250, Deduct</i>	-1.70	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1038 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.74	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1039 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.55	
05 05 23 00-1040 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.88	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1041 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	18.66	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1042 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.74	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.18	
<i>For >500, Deduct</i>	-2.62	
05 05 23 00-1043 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	23.49	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1044 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.84	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1045 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	38.77	
<i>For >100 To 250, Deduct</i>	-1.79	
<i>For >250 To 500, Deduct</i>	-2.24	
<i>For >500, Deduct</i>	-2.69	
05 05 23 00-1046 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1047 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	13.09	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1048 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.85	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1049 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	15.27	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1050 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.73	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1051 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	18.10	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1052 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.35	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1053 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	22.73	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1054 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.12	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1055 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	23.94	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1056 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.72	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1057 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	25.30	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1058 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.89	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-1059	EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	26.60	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1060	1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1061	EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	13.05	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1062	EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.87	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1063	EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	15.02	
	<i>For >100 To 250, Deduct</i>	-1.84	
	<i>For >250 To 500, Deduct</i>	-2.30	
	<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1064	EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.62	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1065	EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.89	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1066	EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.20	
	<i>For >100 To 250, Deduct</i>	-1.88	
	<i>For >250 To 500, Deduct</i>	-2.35	
	<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1067	EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	18.96	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1068	EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.40	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1069	EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	26.36	
	<i>For >100 To 250, Deduct</i>	-1.93	
	<i>For >250 To 500, Deduct</i>	-2.41	
	<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1070	EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.96	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1071	EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	27.74	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1072	EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.88	
	<i>For >100 To 250, Deduct</i>	-1.97	
	<i>For >250 To 500, Deduct</i>	-2.47	
	<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1073	EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	38.22	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1074	EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.87	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1075	EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	45.27	
	<i>For >100 To 250, Deduct</i>	-2.02	
	<i>For >250 To 500, Deduct</i>	-2.53	
	<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1076	EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.11	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1077	EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	64.61	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1078	EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	65.84	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1079	EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	67.76	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1080 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1081 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	33.60	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1082 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.29	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1083 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	45.32	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.75	
05 05 23 00-1084 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	50.61	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1085 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	55.94	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1086 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.27	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1087 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	64.82	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1088 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	69.22	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1089 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	73.12	
<i>For >100 To 250, Deduct</i>	-1.93	
<i>For >250 To 500, Deduct</i>	-2.41	
<i>For >500, Deduct</i>	-2.89	
05 05 23 00-1090 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	74.52	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1091 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	77.96	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.47	
<i>For >500, Deduct</i>	-2.96	
05 05 23 00-1092 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1093 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	18.38	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1094 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.61	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1095 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	18.69	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1096 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.46	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1097 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	22.05	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1098 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.07	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1099 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	28.35	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1100 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.75	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1101 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	34.27	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-1102	EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.39	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-1103	EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	38.64	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-1104	EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.34	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	
05 05 23 00-1105	EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	49.34	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1106	EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	50.32	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1107	EA 5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	53.91	
	<i>For >100 To 250, Deduct</i>	-2.25	
	<i>For >250 To 500, Deduct</i>	-2.81	
	<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1108	EA 5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.38	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1109	EA 5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	60.43	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1110	EA 5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	74.96	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1111	EA 5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	90.49	
	<i>For >100 To 250, Deduct</i>	-2.30	
	<i>For >250 To 500, Deduct</i>	-2.87	
	<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1112	3/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1113	EA 3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	24.49	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1114	EA 3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.04	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1115	EA 3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.13	
	<i>For >100 To 250, Deduct</i>	-2.07	
	<i>For >250 To 500, Deduct</i>	-2.58	
	<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1116	EA 3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.19	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1117	EA 3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	33.10	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1118	EA 3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.37	
	<i>For >100 To 250, Deduct</i>	-2.11	
	<i>For >250 To 500, Deduct</i>	-2.64	
	<i>For >500, Deduct</i>	-3.17	
05 05 23 00-1119	EA 3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	40.42	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1120	EA 3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.41	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1121	EA 3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	43.51	
	<i>For >100 To 250, Deduct</i>	-2.16	
	<i>For >250 To 500, Deduct</i>	-2.70	
	<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1122	EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.20	
	<i>For >100 To 250, Deduct</i>	-2.20	
	<i>For >250 To 500, Deduct</i>	-2.76	
	<i>For >500, Deduct</i>	-3.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1123 EA 3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	47.70	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-1124 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.40	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.76	
<i>For >500, Deduct</i>	-3.31	
05 05 23 00-1125 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	66.76	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1126 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.44	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1127 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	76.74	
<i>For >100 To 250, Deduct</i>	-2.25	
<i>For >250 To 500, Deduct</i>	-2.81	
<i>For >500, Deduct</i>	-3.38	
05 05 23 00-1128 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	82.19	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1129 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	95.34	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1130 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	96.45	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1131 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	99.22	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1132 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1133 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.63	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1134 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	31.25	
<i>For >100 To 250, Deduct</i>	-2.30	
<i>For >250 To 500, Deduct</i>	-2.87	
<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1135 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.45	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1136 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	38.51	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1137 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.78	
<i>For >100 To 250, Deduct</i>	-2.34	
<i>For >250 To 500, Deduct</i>	-2.93	
<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1138 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	43.00	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1139 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.06	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1140 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	52.96	
<i>For >100 To 250, Deduct</i>	-2.39	
<i>For >250 To 500, Deduct</i>	-2.99	
<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1141 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.36	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-1142 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	55.64	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	
05 05 23 00-1143 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	74.94	
<i>For >100 To 250, Deduct</i>	-2.43	
<i>For >250 To 500, Deduct</i>	-3.04	
<i>For >500, Deduct</i>	-3.65	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1144	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	83.70	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-1145	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	92.86	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-1146	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	97.37	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-1147	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	103.46	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-1148	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	107.38	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-1149	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	111.27	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-1150	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	115.65	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-3.16	
			<i>For >500, Deduct</i>	-3.79	
05 05 23 00-1151			1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1152	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	35.58	
			<i>For >100 To 250, Deduct</i>	-2.30	
			<i>For >250 To 500, Deduct</i>	-2.87	
			<i>For >500, Deduct</i>	-3.44	
05 05 23 00-1153	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.38	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1154	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	45.11	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1155	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.07	
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500, Deduct</i>	-3.51	
05 05 23 00-1156	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	53.43	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1157	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.47	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1158	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	61.55	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-2.99	
			<i>For >500, Deduct</i>	-3.58	
05 05 23 00-1159	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	65.88	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-1160	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	76.42	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-1161	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	86.82	
			<i>For >100 To 250, Deduct</i>	-2.43	
			<i>For >250 To 500, Deduct</i>	-3.04	
			<i>For >500, Deduct</i>	-3.65	
05 05 23 00-1162	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	101.28	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-1163	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	113.23	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	
05 05 23 00-1164	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	114.95	
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500, Deduct</i>	-3.72	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23 00-1165	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	119.08 -2.53 -3.16 -3.79	
	05 05 23 00-1166	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	120.73 -2.53 -3.16 -3.79	
	05 05 23 00-1167	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	140.57 -2.53 -3.16 -3.79	
	05 05 23 00-1168	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	159.73 -2.53 -3.16 -3.79	
	05 05 23 00-1169			Screws <small>(05 05 23)</small>		
	05 05 23 00-1170			Teks® 5 Self Drilling Screws <small>(05 05 23 00-1169)</small> Note: Includes Climaseal® finish, self-drill point and tapping threads.		
	05 05 23 00-1171	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.34 -0.19 -0.40 -0.79	
	05 05 23 00-1172	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.53 -0.19 -0.40 -0.80	
	05 05 23 00-1173	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	5.06 -0.20 -0.43 -0.87	
	05 05 23 00-1174	EA		1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	6.96 -0.26 -0.56 -1.11	
	05 05 23 00-1175	EA		1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	7.44 -0.27 -0.59 -1.18	
	05 05 23 00-1176	EA		1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	9.19 -0.28 -0.65 -1.30	
	05 05 23 00-1177	EA		1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	10.28 -0.29 -0.70 -1.39	
	05 05 23 00-1178			Security Screws <small>(05 05 23 00-1169)</small>		
	05 05 23 00-1179			304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1178)</small> Note: Includes "security" style drive in machine or sheet metal screw threads.		
	05 05 23 00-1180	EA		#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	3.42 -0.16 -0.33 -0.65	
	05 05 23 00-1181	EA		#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	3.98 -0.16 -0.34 -0.68	
	05 05 23 00-1182	EA		#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.46 -0.16 -0.35 -0.70	
	05 05 23 00-1183	EA		#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.63 -0.16 -0.36 -0.71	
	05 05 23 00-1184	EA		#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.94 -0.16 -0.36 -0.73	
	05 05 23 00-1185	EA		#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.11 -0.16 -0.34 -0.69	
	05 05 23 00-1186	EA		#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	4.34 -0.16 -0.35 -0.70	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1187	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.81	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1188	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.96	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.73	
05 05 23 00-1189	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.25	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100, Deduct</i>	-0.69	
05 05 23 00-1190	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.31	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100, Deduct</i>	-0.70	
05 05 23 00-1191	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.52	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1192	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.17	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100, Deduct</i>	-0.74	
05 05 23 00-1193	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.63	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1194	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.77	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1195	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.40	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100, Deduct</i>	-0.75	
05 05 23 00-1196	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	6.38	
			<i>For >10 To 50, Deduct</i>	-0.16	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100, Deduct</i>	-0.80	
05 05 23 00-1197			Threaded Rod <small>(05 05 23)</small>		
			Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.		
05 05 23 00-1198			Plain Finish Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1199	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.17	0.55
			<i>For Left Hand Threaded Rod, Add</i>	0.21	
05 05 23 00-1200	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.34	0.60
			<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1201	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	5.07	0.69
			<i>For Left Hand Threaded Rod, Add</i>	0.37	
05 05 23 00-1202	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	7.17	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.58	
05 05 23 00-1203	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	7.35	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.59	
05 05 23 00-1204	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	9.34	0.74
			<i>For Left Hand Threaded Rod, Add</i>	0.79	
05 05 23 00-1205	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	10.64	0.75
			<i>For Left Hand Threaded Rod, Add</i>	0.91	
05 05 23 00-1206	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	18.15	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.66	
05 05 23 00-1207	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	19.84	0.80
			<i>For Left Hand Threaded Rod, Add</i>	1.82	
05 05 23 00-1208	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	27.42	0.90
			<i>For Left Hand Threaded Rod, Add</i>	2.56	
05 05 23 00-1209	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	34.31	1.00
			<i>For Left Hand Threaded Rod, Add</i>	3.23	
05 05 23 00-1210	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	45.84	1.09
			<i>For Left Hand Threaded Rod, Add</i>	4.36	
05 05 23 00-1211	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	57.38	1.18
			<i>For Left Hand Threaded Rod, Add</i>	5.50	
05 05 23 00-1212	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	68.90	1.23
			<i>For Left Hand Threaded Rod, Add</i>	6.64	
05 05 23 00-1213	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	84.84	1.29
			<i>For Left Hand Threaded Rod, Add</i>	8.23	
05 05 23 00-1214	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	108.82	1.36
			<i>For Left Hand Threaded Rod, Add</i>	10.61	
05 05 23 00-1215			Zinc Plated Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1216	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	3.20	0.55
			<i>For Left Hand Threaded Rod, Add</i>	0.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1217 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.03	0.60
For Left Hand Threaded Rod, Add	0.38	
05 05 23 00-1218 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.59	0.69
For Left Hand Threaded Rod, Add	0.42	
05 05 23 00-1219 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	8.48	0.70
For Left Hand Threaded Rod, Add	0.71	
05 05 23 00-1220 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	9.17	0.73
For Left Hand Threaded Rod, Add	0.77	
05 05 23 00-1221 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	12.33	0.74
For Left Hand Threaded Rod, Add	1.09	
05 05 23 00-1222 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	13.13	0.75
For Left Hand Threaded Rod, Add	1.16	
05 05 23 00-1223 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	20.29	0.77
For Left Hand Threaded Rod, Add	1.87	
05 05 23 00-1224 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	26.58	0.80
For Left Hand Threaded Rod, Add	2.50	
05 05 23 00-1225 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	35.92	0.90
For Left Hand Threaded Rod, Add	3.41	
05 05 23 00-1226 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	46.60	1.00
For Left Hand Threaded Rod, Add	4.46	
05 05 23 00-1227 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	55.72	1.09
For Left Hand Threaded Rod, Add	5.35	
05 05 23 00-1228 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	63.51	1.18
For Left Hand Threaded Rod, Add	6.11	
05 05 23 00-1229 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	80.34	1.23
For Left Hand Threaded Rod, Add	7.79	
05 05 23 00-1230 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	99.91	1.29
For Left Hand Threaded Rod, Add	9.73	
05 05 23 00-1231 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	146.59	1.36
For Left Hand Threaded Rod, Add	14.39	
05 05 23 00-1232 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1233 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	9.87	0.69
For Left Hand Threaded Rod, Add	0.85	
05 05 23 00-1234 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	14.16	0.73
For Left Hand Threaded Rod, Add	1.27	
05 05 23 00-1235 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	19.46	0.75
For Left Hand Threaded Rod, Add	1.80	
05 05 23 00-1236 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	27.10	0.77
For Left Hand Threaded Rod, Add	2.56	
05 05 23 00-1237 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	37.92	0.80
For Left Hand Threaded Rod, Add	3.63	
05 05 23 00-1238 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	49.12	0.90
For Left Hand Threaded Rod, Add	4.73	
05 05 23 00-1239 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	64.89	1.00
For Left Hand Threaded Rod, Add	6.29	
05 05 23 00-1240 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	85.64	1.09
For Left Hand Threaded Rod, Add	8.34	
05 05 23 00-1241 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	95.84	1.18
For Left Hand Threaded Rod, Add	9.35	
05 05 23 00-1242 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	114.34	1.23
For Left Hand Threaded Rod, Add	11.19	
05 05 23 00-1243 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	139.23	1.29
For Left Hand Threaded Rod, Add	13.66	
05 05 23 00-1244 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	244.39	1.36
For Left Hand Threaded Rod, Add	24.17	
05 05 23 00-1245 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1246 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	4.04	0.55
For Left Hand Threaded Rod, Add	0.30	
05 05 23 00-1247 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.23	0.60
For Left Hand Threaded Rod, Add	0.50	
05 05 23 00-1248 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.09	0.69
For Left Hand Threaded Rod, Add	0.67	
05 05 23 00-1249 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	11.42	0.70
For Left Hand Threaded Rod, Add	1.00	
05 05 23 00-1250 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	13.78	0.73
For Left Hand Threaded Rod, Add	1.23	
05 05 23 00-1251 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	20.04	0.74
For Left Hand Threaded Rod, Add	1.86	
05 05 23 00-1252 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	20.93	0.75
For Left Hand Threaded Rod, Add	1.94	
05 05 23 00-1253 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	29.52	0.77
For Left Hand Threaded Rod, Add	2.80	
05 05 23 00-1254 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	40.79	0.80
For Left Hand Threaded Rod, Add	3.92	
05 05 23 00-1255 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	52.41	0.90
For Left Hand Threaded Rod, Add	5.06	
05 05 23 00-1256 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	111.52	1.09
For Left Hand Threaded Rod, Add	10.93	
05 05 23 00-1257 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	170.16	1.23
For Left Hand Threaded Rod, Add	16.77	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1258	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	175.02 17.24	1.29
05 05 23 00-1259	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	242.49 23.98	1.36
05 05 23 00-1260 316 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>					
05 05 23 00-1261	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.03 0.49	0.55
05 05 23 00-1262	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.91 0.87	0.60
05 05 23 00-1263	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.24 1.19	0.69
05 05 23 00-1264	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.94 1.95	0.70
05 05 23 00-1265	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	22.22 2.08	0.73
05 05 23 00-1266	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	29.31 2.78	0.74
05 05 23 00-1267	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.57 3.01	0.75
05 05 23 00-1268	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	46.27 4.47	0.77
05 05 23 00-1269	LF		7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	63.53 6.19	0.80
05 05 23 00-1270	LF		1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	80.47 7.87	0.90
05 05 23 00-1271	LF		1-1/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	170.46 16.82	1.09
05 05 23 00-1272	LF		1-1/2" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	223.61 22.11	1.23
05 05 23 00-1273 Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1197)</small>					
05 05 23 00-1274	LF		1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.11 2.51	0.55
05 05 23 00-1275	LF		5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	9.79 4.30	0.60
05 05 23 00-1276	LF		3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	10.17 4.41	0.69
05 05 23 00-1277	LF		7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	11.18 4.89	0.70
05 05 23 00-1278	LF		1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	12.39 5.47	0.73
05 05 23 00-1279	LF		9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	15.74 7.13	0.74
05 05 23 00-1280	LF		5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	16.26 7.38	0.75
05 05 23 00-1281	LF		3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	21.95 10.20	0.77
05 05 23 00-1282	LF		7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	26.51 12.46	0.80
05 05 23 00-1283	LF		1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	34.60 16.40	0.90
05 05 23 00-1284	LF		1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	45.29 21.64	1.00
05 05 23 00-1285	LF		1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	50.40 24.07	1.09
05 05 23 00-1286	LF		1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	58.37 28.00	1.18
05 05 23 00-1287	LF		1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	71.31 34.42	1.23
05 05 23 00-1288	LF		1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	73.69 35.55	1.29
05 05 23 00-1289	LF		2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	99.53 48.41	1.36
05 05 23 00-1290 Nuts And Washers <small>(05 05 23)</small>					
05 05 23 00-1291 Hex Nuts <small>(05 05 23 00-1290)</small>					
05 05 23 00-1292 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1291)</small>					
05 05 23 00-1293	EA		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.72	0.32
05 05 23 00-1294	EA		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.81	0.32
05 05 23 00-1295	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.86	0.32
05 05 23 00-1296	EA		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.00	0.32
05 05 23 00-1297	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.09	0.32
05 05 23 00-1298	EA		9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.45	0.32
05 05 23 00-1299	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.50	0.32
05 05 23 00-1300	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.78	0.64
05 05 23 00-1301	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.62	0.64
05 05 23 00-1302	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.33	0.64



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				05 05 23 00-1303 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.48	0.64
				05 05 23 00-1304 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	6.72	0.64
				05 05 23 00-1305 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	9.91	0.64
				05 05 23 00-1306 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	11.49	0.96
				05 05 23 00-1307 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	16.91	0.96
				05 05 23 00-1308 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	24.46	0.96
05 05 23 00-1309				Zinc Plated Steel, Grade 5 Hex Nuts <small>(05 05 23 00-1291)</small>		
				05 05 23 00-1310 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.74	0.32
				05 05 23 00-1311 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.82	0.32
				05 05 23 00-1312 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.89	0.32
				05 05 23 00-1313 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.04	0.32
				05 05 23 00-1314 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.23	0.32
				05 05 23 00-1315 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.49	0.32
				05 05 23 00-1316 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.53	0.32
				05 05 23 00-1317 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.02	0.64
				05 05 23 00-1318 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.86	0.64
				05 05 23 00-1319 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.05	0.64
				05 05 23 00-1320 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.20	0.64
				05 05 23 00-1321 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	8.79	0.64
				05 05 23 00-1322 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	12.94	0.64
				05 05 23 00-1323 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	14.30	0.96
				05 05 23 00-1324 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	25.87	0.96
				05 05 23 00-1325 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	37.11	0.96
05 05 23 00-1326				Zinc Plated Steel, Grade 8 Hex Nuts <small>(05 05 23 00-1291)</small>		
				05 05 23 00-1327 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.76	0.32
				05 05 23 00-1328 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.88	0.32
				05 05 23 00-1329 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.95	0.32
				05 05 23 00-1330 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.20	0.32
				05 05 23 00-1331 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.44	0.32
				05 05 23 00-1332 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.73	0.32
				05 05 23 00-1333 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.97	0.32
				05 05 23 00-1334 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	2.46	0.64
				05 05 23 00-1335 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	3.70	0.64
				05 05 23 00-1336 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	4.94	0.64
				05 05 23 00-1337 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	7.76	0.64
				05 05 23 00-1338 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	9.70	0.64
				05 05 23 00-1339 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	16.00	0.64
				05 05 23 00-1340 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	16.99	0.96
				05 05 23 00-1341 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	25.94	0.96
				05 05 23 00-1342 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	36.70	0.96
05 05 23 00-1343				Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1291)</small>		
				05 05 23 00-1344 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.76	0.32
				05 05 23 00-1345 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.86	0.32
				05 05 23 00-1346 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.93	0.32
				05 05 23 00-1347 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.17	0.32
				05 05 23 00-1348 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.35	0.32
				05 05 23 00-1349 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.51	0.32
				05 05 23 00-1350 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.67	0.32
				05 05 23 00-1351 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	2.24	0.64
				05 05 23 00-1352 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	3.26	0.64
				05 05 23 00-1353 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	4.51	0.64
				05 05 23 00-1354 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	7.50	0.64
				05 05 23 00-1355 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	9.63	0.64
				05 05 23 00-1356 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	14.33	0.64
				05 05 23 00-1357 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	16.73	0.96
				05 05 23 00-1358 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	29.23	0.96
				05 05 23 00-1359 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	50.61	0.96
05 05 23 00-1360				304 Stainless Steel Hex Nuts <small>(05 05 23 00-1291)</small>		
				05 05 23 00-1361 EA 1/4" Diameter, 304 Stainless Steel Hex Nut.....	0.88	0.32
				05 05 23 00-1362 EA 5/16" Diameter, 304 Stainless Steel Hex Nut.....	1.06	0.32
				05 05 23 00-1363 EA 3/8" Diameter, 304 Stainless Steel Hex Nut.....	1.19	0.32
				05 05 23 00-1364 EA 7/16" Diameter, 304 Stainless Steel Hex Nut.....	1.84	0.32
				05 05 23 00-1365 EA 1/2" Diameter, 304 Stainless Steel Hex Nut.....	1.99	0.32
				05 05 23 00-1366 EA 9/16" Diameter, 304 Stainless Steel Hex Nut.....	3.11	0.32
				05 05 23 00-1367 EA 5/8" Diameter, 304 Stainless Steel Hex Nut.....	3.48	0.32
				05 05 23 00-1368 EA 3/4" Diameter, 304 Stainless Steel Hex Nut.....	4.02	0.64
				05 05 23 00-1369 EA 7/8" Diameter, 304 Stainless Steel Hex Nut.....	6.68	0.64
				05 05 23 00-1370 EA 1" Diameter, 304 Stainless Steel Hex Nut.....	10.30	0.64
				05 05 23 00-1371 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut.....	25.00	0.64
				05 05 23 00-1372 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut.....	48.27	0.96
				05 05 23 00-1373 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut.....	85.10	0.96
				05 05 23 00-1374 EA 2" Diameter, 304 Stainless Steel Hex Nut.....	121.41	0.96



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1375			316 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1376	EA		1/4" Diameter, 316 Stainless Steel Hex Nut.....	1.05	0.32
05 05 23 00-1377	EA		5/16" Diameter, 316 Stainless Steel Hex Nut.....	1.20	0.32
05 05 23 00-1378	EA		3/8" Diameter, 316 Stainless Steel Hex Nut.....	1.45	0.32
05 05 23 00-1379	EA		7/16" Diameter, 316 Stainless Steel Hex Nut.....	2.46	0.32
05 05 23 00-1380	EA		1/2" Diameter, 316 Stainless Steel Hex Nut.....	2.64	0.32
05 05 23 00-1381	EA		9/16" Diameter, 316 Stainless Steel Hex Nut.....	3.65	0.32
05 05 23 00-1382	EA		5/8" Diameter, 316 Stainless Steel Hex Nut.....	4.14	0.32
05 05 23 00-1383	EA		3/4" Diameter, 316 Stainless Steel Hex Nut.....	5.83	0.64
05 05 23 00-1384	EA		7/8" Diameter, 316 Stainless Steel Hex Nut.....	8.17	0.64
05 05 23 00-1385	EA		1" Diameter, 316 Stainless Steel Hex Nut.....	12.66	0.64
05 05 23 00-1386	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	38.93	0.64
05 05 23 00-1387	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	63.12	0.96
05 05 23 00-1388	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	106.72	0.96
05 05 23 00-1389	EA		2" Diameter, 316 Stainless Steel Hex Nut.....	198.66	0.96
05 05 23 00-1390			Flat Washers (05 05 23 00-1290)		
05 05 23 00-1391			Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1390)		
05 05 23 00-1392	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.05	
05 05 23 00-1393	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.09	
05 05 23 00-1394	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.16	
05 05 23 00-1395	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.24	
05 05 23 00-1396	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.34	
05 05 23 00-1397	EA		9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.39	
05 05 23 00-1398	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.66	
05 05 23 00-1399	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.95	
05 05 23 00-1400	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.13	
05 05 23 00-1401	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.39	
05 05 23 00-1402	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.57	
05 05 23 00-1403	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.88	
05 05 23 00-1404	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.95	
05 05 23 00-1405	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.02	
05 05 23 00-1406	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.47	
05 05 23 00-1407	EA		2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	5.56	
05 05 23 00-1408			Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1390)		
05 05 23 00-1409	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.20	
05 05 23 00-1410	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.28	
05 05 23 00-1411	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.32	
05 05 23 00-1412	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.44	
05 05 23 00-1413	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.59	
05 05 23 00-1414	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.95	
05 05 23 00-1415	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.36	
05 05 23 00-1416	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.92	
05 05 23 00-1417	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.21	
05 05 23 00-1418	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.56	
05 05 23 00-1419	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.18	
05 05 23 00-1420	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.65	
05 05 23 00-1421	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.45	
05 05 23 00-1422	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	8.52	
05 05 23 00-1423	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.45	
05 05 23 00-1424	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	13.74	
05 05 23 00-1425			Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1426	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.13	
05 05 23 00-1427	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.19	
05 05 23 00-1428	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.21	
05 05 23 00-1429	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.40	
05 05 23 00-1430	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.51	
05 05 23 00-1431	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.84	
05 05 23 00-1432	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.94	
05 05 23 00-1433	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.42	
05 05 23 00-1434	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.00	
05 05 23 00-1435	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.20	
05 05 23 00-1436	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.36	
05 05 23 00-1437	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.74	
05 05 23 00-1438	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.34	
05 05 23 00-1439	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.79	
05 05 23 00-1440	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	8.40	
05 05 23 00-1441			304/18-8 Stainless Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1442	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.18	
05 05 23 00-1443	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1444	EA			3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.35	
05 05 23 00-1445	EA			7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.64	
05 05 23 00-1446	EA			1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.17	
05 05 23 00-1447	EA			9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.46	
05 05 23 00-1448	EA			5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.15	
05 05 23 00-1449	EA			3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.19	
05 05 23 00-1450	EA			7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.61	
05 05 23 00-1451	EA			1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.84	
05 05 23 00-1452	EA			1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.80	
05 05 23 00-1453	EA			1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.32	
05 05 23 00-1454	EA			1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.74	
05 05 23 00-1455	EA			1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	9.43	
05 05 23 00-1456	EA			1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	11.72	
05 05 23 00-1457	EA			2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	23.03	
05 05 23 00-1458				316 Stainless Steel Flat Washers <small>(05 05 23 00-1390)</small>		
05 05 23 00-1459	EA			1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.36	
05 05 23 00-1460	EA			5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.39	
05 05 23 00-1461	EA			3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.70	
05 05 23 00-1462	EA			7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.82	
05 05 23 00-1463	EA			1/2" Inside Diameter, 316 Stainless Steel Flat Washer	1.52	
05 05 23 00-1464	EA			9/16" Inside Diameter, 316 Stainless Steel Flat Washer	2.73	
05 05 23 00-1465	EA			5/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.22	
05 05 23 00-1466	EA			3/4" Inside Diameter, 316 Stainless Steel Flat Washer	4.06	
05 05 23 00-1467	EA			7/8" Inside Diameter, 316 Stainless Steel Flat Washer	6.29	
05 05 23 00-1468	EA			1" Inside Diameter, 316 Stainless Steel Flat Washer	7.03	
05 05 23 00-1469	EA			1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	8.01	
05 05 23 00-1470	EA			1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	9.86	
05 05 23 00-1471	EA			1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	10.43	
05 05 23 00-1472	EA			1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	10.66	
05 05 23 00-1473	EA			1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	15.63	
05 05 23 00-1474				Lock Washers <small>(05 05 23 00-1290)</small>		
05 05 23 00-1475				Zinc Plated Steel, Low Carbon Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1476	EA			1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1477	EA			5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1478	EA			3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.06	
05 05 23 00-1479	EA			7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.10	
05 05 23 00-1480	EA			1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.13	
05 05 23 00-1481	EA			9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.22	
05 05 23 00-1482	EA			5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.25	
05 05 23 00-1483	EA			3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.38	
05 05 23 00-1484	EA			7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.63	
05 05 23 00-1485	EA			1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.14	
05 05 23 00-1486	EA			1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.66	
05 05 23 00-1487	EA			1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.55	
05 05 23 00-1488	EA			1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.03	
05 05 23 00-1489	EA			1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.75	
05 05 23 00-1490	EA			1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.47	
05 05 23 00-1491	EA			2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	9.54	
05 05 23 00-1492				Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1493	EA			1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.10	
05 05 23 00-1494	EA			5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.12	
05 05 23 00-1495	EA			3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.16	
05 05 23 00-1496	EA			7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.18	
05 05 23 00-1497	EA			1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.28	
05 05 23 00-1498	EA			9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.37	
05 05 23 00-1499	EA			5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.44	
05 05 23 00-1500	EA			3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.73	
05 05 23 00-1501	EA			7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.05	
05 05 23 00-1502	EA			1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.66	
05 05 23 00-1503	EA			1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.01	
05 05 23 00-1504	EA			1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.59	
05 05 23 00-1505	EA			1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.18	
05 05 23 00-1506	EA			1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.92	
05 05 23 00-1507	EA			1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.01	
05 05 23 00-1508	EA			2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	10.91	
05 05 23 00-1509				304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1474)</small>		
05 05 23 00-1510	EA			1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1511	EA			5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1512	EA			3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.30	
05 05 23 00-1513	EA			7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.56	
05 05 23 00-1514	EA			1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.62	
05 05 23 00-1515	EA			9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.51	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-1516	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		1.78	
05 05 23 00-1517	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		2.07	
05 05 23 00-1518	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		3.75	
05 05 23 00-1519	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		5.29	
05 05 23 00-1520	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		9.24	
05 05 23 00-1521	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		12.29	
05 05 23 00-1522	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		15.63	
05 05 23 00-1523	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer		18.75	
05 05 23 00-1524		316 Stainless Steel Lock Washers (05 05 23 00-1474)			
05 05 23 00-1525	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer		0.19	
05 05 23 00-1526	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer		0.41	
05 05 23 00-1527	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer		0.47	
05 05 23 00-1528	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer		0.81	
05 05 23 00-1529	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer		0.90	
05 05 23 00-1530	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer		1.61	
05 05 23 00-1531	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer		1.76	
05 05 23 00-1532	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer		3.05	
05 05 23 00-1533	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer		5.04	
05 05 23 00-1534	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer		6.86	
05 05 23 00-1535	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer		9.57	
05 05 23 00-1536	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer		14.73	
05 05 23 00-1537	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer		26.37	
05 05 23 00-1538	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer		29.28	
05 05 23 00-1539		Load Indicating Washers (05 05 23 00-1290)			
05 05 23 00-1540		A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1539)			
05 05 23 00-1541		Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)			
05 05 23 00-1542	EA	1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		2.76	
05 05 23 00-1543	EA	5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.13	
05 05 23 00-1544	EA	3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.37	
05 05 23 00-1545	EA	7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.83	
05 05 23 00-1546	EA	1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		4.63	
05 05 23 00-1547	EA	1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		7.69	
05 05 23 00-1548	EA	1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		9.94	
05 05 23 00-1549	EA	1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		12.69	
05 05 23 00-1550	EA	1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		13.95	
05 05 23 00-1551		Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)			
05 05 23 00-1552	EA	1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.50	
05 05 23 00-1553	EA	5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.89	
05 05 23 00-1554	EA	3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		3.79	
05 05 23 00-1555	EA	7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		4.63	
05 05 23 00-1556	EA	1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		5.48	
05 05 23 00-1557	EA	1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		8.26	
05 05 23 00-1558	EA	1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		10.40	
05 05 23 00-1559	EA	1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		14.79	
05 05 23 00-1560	EA	1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)		16.27	
05 05 23 00-1561		Beveled Washers (05 05 23 00-1290)			
05 05 23 00-1562		Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)			
05 05 23 00-1563	EA	1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436)		4.56	
05 05 23 00-1564	EA	5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)		4.66	
05 05 23 00-1565	EA	3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436)		4.76	
05 05 23 00-1566	EA	7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)		5.79	
05 05 23 00-1567	EA	1", Plain Finish, Square Beveled Structural Washer (ASTM F436)		6.09	
05 05 23 00-1568		Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)			
05 05 23 00-1569	EA	1/2", Galvanized, Square Beveled Structural Washer (ASTM F436)		6.56	
05 05 23 00-1570	EA	5/8", Galvanized, Square Beveled Structural Washer (ASTM F436)		6.85	
05 05 23 00-1571	EA	3/4", Galvanized, Square Beveled Structural Washer (ASTM F436)		6.85	
05 05 23 00-1572	EA	7/8", Galvanized, Square Beveled Structural Washer (ASTM F436)		7.25	
05 05 23 00-1573	EA	1", Galvanized, Square Beveled Structural Washer (ASTM F436)		7.71	
05 05 23 00-1574		Welded Stud Anchors (05 05 23)			
05 05 23 00-1575	EA	1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors		4.69	
05 05 23 00-1576	EA	2-1/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors		4.80	
05 05 23 00-1577	EA	3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors		4.85	
05 05 23 00-1578	EA	4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors		4.89	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1579	EA			1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.57	
05 05 23 00-1580	EA			1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.84	
05 05 23 00-1581	EA			2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.11	
05 05 23 00-1582	EA			2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.25	
05 05 23 00-1583	EA			3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.39	
05 05 23 00-1584	EA			4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.95	
05 05 23 00-1585	EA			5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.41	
05 05 23 00-1586	EA			6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.78	
05 05 23 00-1587	EA			1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.65	
05 05 23 00-1588	EA			1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.69	
05 05 23 00-1589	EA			2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.11	
05 05 23 00-1590	EA			2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.51	
05 05 23 00-1591	EA			3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.00	
05 05 23 00-1592	EA			4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.76	
05 05 23 00-1593	EA			5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.25	
05 05 23 00-1594	EA			6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	9.59	
05 05 23 00-1595	EA			8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	12.12	
05 05 23 00-1596	EA			2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.20	
05 05 23 00-1597	EA			3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.84	
05 05 23 00-1598	EA			3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.36	
05 05 23 00-1599	EA			4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.88	
05 05 23 00-1600	EA			4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	10.31	
05 05 23 00-1601	EA			5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	10.70	
05 05 23 00-1602	EA			6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	11.22	
05 05 23 00-1603	EA			6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	13.39	
05 05 23 00-1604	EA			8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	16.38	

05 05 23 00-1605 Welded Shear Stud Connector (05 05 23)

05 05 23 00-1606 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1605)

05 05 23 00-1607	EA			3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	10.59	
05 05 23 00-1608	EA			3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	11.05	
05 05 23 00-1609	EA			3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	11.17	
05 05 23 00-1610	EA			3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	11.23	
05 05 23 00-1611	EA			3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	11.75	
05 05 23 00-1612	EA			3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	12.70	
05 05 23 00-1613	EA			3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	21.89	
05 05 23 00-1614	EA			3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	13.80	
05 05 23 00-1615	EA			3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	15.48	
05 05 23 00-1616	EA			3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	19.90	
05 05 23 00-1617	EA			3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	20.42	
05 05 23 00-1618	EA			3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	22.25	
05 05 23 00-1619	EA			3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	29.94	

05 05 23 00-1620 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1605)

05 05 23 00-1621	EA			7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	12.88	
05 05 23 00-1622	EA			7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	13.62	
05 05 23 00-1623	EA			7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	14.35	
05 05 23 00-1624	EA			7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	16.46	
05 05 23 00-1625	EA			7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	21.03	
05 05 23 00-1626	EA			7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	23.26	
05 05 23 00-1627	EA			7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	25.45	
05 05 23 00-1628	EA			7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	31.62	

05 05 23 00-1629 1" Diameter Welded Shear Stud Connector (05 05 23 00-1605)

05 05 23 00-1630	EA			1" Diameter x 3-1/4" Long, Welded Shear Stud Connector.....	17.68	
05 05 23 00-1631	EA			1" Diameter x 4-1/4" Long, Welded Shear Stud Connector.....	19.94	
05 05 23 00-1632	EA			1" Diameter x 5-1/4" Long, Welded Shear Stud Connector.....	23.26	
05 05 23 00-1633	EA			1" Diameter x 6-1/4" Long, Welded Shear Stud Connector.....	29.36	
05 05 23 00-1634	EA			1" Diameter x 7-1/4" Long, Welded Shear Stud Connector.....	32.84	
05 05 23 00-1635	EA			1" Diameter x 8-1/4" Long, Welded Shear Stud Connector.....	36.32	

05 10 Structural Metal Framing (05)

05 12 Structural Steel Framing (05 10)

05 12 23 Structural Steel for Buildings (05 12)

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

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

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

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0002	Beams, Girders And Columns <small>(05 12 23 00-0001)</small>		
	Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003	TON Up To 30 LB/LF Beams, Girders And Columns	12,005.97	1,307.25
	For ASTM A242 Type 2 High Strength Steel, Add	744.12	
	For Hot Dip Galvanizing, Add	2,604.43	
	For >10 To 25 Tons, Deduct	-790.63	
	For >25 To 50 Tons, Deduct	-1,627.77	
	For >50 Tons, Deduct	-2,325.39	
05 12 23 00-0004	TON >30-65 LB/LF Beams, Girders And Columns.....	8,535.33	845.04
	For ASTM A242 Type 2 High Strength Steel, Add	610.71	
	For Hot Dip Galvanizing, Add	2,137.48	
	For >10 To 25 Tons, Deduct	-648.88	
	For >25 To 50 Tons, Deduct	-1,335.93	
	For >50 Tons, Deduct	-1,908.47	
05 12 23 00-0005	TON >65-100 LB/LF Beams, Girders And Columns.....	7,284.30	475.38
	For ASTM A242 Type 2 High Strength Steel, Add	542.18	
	For Hot Dip Galvanizing, Add	1,897.62	
	For >10 To 25 Tons, Deduct	-576.06	
	For >25 To 50 Tons, Deduct	-1,186.01	
	For >50 Tons, Deduct	-1,694.31	
05 12 23 00-0006	TON >100-300 LB/LF Beams, Girders And Columns.....	4,903.47	253.03
	For ASTM A242 Type 2 High Strength Steel, Add	370.64	
	For Hot Dip Galvanizing, Add	1,297.25	
	For >10 To 25 Tons, Deduct	-393.81	
	For >25 To 50 Tons, Deduct	-810.78	
	For >50 Tons, Deduct	-1,158.26	
05 12 23 00-0007	Trusses, Built-Up <small>(05 12 23 00-0001)</small>		
05 12 23 00-0008	TON Built-Up Trusses, Rolled Structural Steel Members	9,058.13	889.03
	For ASTM A242 Type 2 High Strength Steel, Add	648.83	
	For Hot Dip Galvanizing, Add	2,270.89	
	For >10 To 25 Tons, Deduct	-689.38	
	For >25 To 50 Tons, Deduct	-1,419.31	
	For >50 Tons, Deduct	-2,027.58	
05 12 23 00-0009	Shapes <small>(05 12 23 00-0001)</small>		
05 12 23 00-0010	Rolled Shape Steel Angles <small>(05 12 23 00-0009)</small>		
05 12 23 00-0011	TON Up To 10 LB/LF Rolled Shape Steel Angles	17,483.02	2,430.17
	For ASTM A242 Type 2 High Strength Steel, Add	1,074.62	
	For Hot Dip Galvanizing, Add	3,761.17	
	For >10 To 25 Tons, Deduct	-1,141.78	
	For >25 To 50 Tons, Deduct	-2,350.73	
	For >50 Tons, Deduct	-3,358.19	
05 12 23 00-0012	TON >10 To 20 LB/LF Rolled Shape Steel Angles	15,554.23	1,426.15
	For ASTM A242 Type 2 High Strength Steel, Add	1,027.98	
	For Hot Dip Galvanizing, Add	3,597.95	
	For >10 To 25 Tons, Deduct	-1,092.23	
	For >25 To 50 Tons, Deduct	-2,248.72	
	For >50 Tons, Deduct	-3,212.45	
05 12 23 00-0013	TON >20 To 58 LB/LF Rolled Shape Steel Angles	12,205.11	845.04
	For ASTM A242 Type 2 High Strength Steel, Add	904.30	
	For Hot Dip Galvanizing, Add	3,165.06	
	For >10 To 25 Tons, Deduct	-960.82	
	For >25 To 50 Tons, Deduct	-1,978.16	
	For >50 Tons, Deduct	-2,825.95	
05 12 23 00-0014	Rolled C, MC Steel Channels <small>(05 12 23 00-0009)</small>		
05 12 23 00-0015	TON Up To 10 LB/LF Rolled C, MC Steel Channels	18,802.27	3,327.70
	For ASTM A242 Type 2 High Strength Steel, Add	1,058.40	
	For Hot Dip Galvanizing, Add	3,704.39	
	For >10 To 25 Tons, Deduct	-1,124.55	
	For >25 To 50 Tons, Deduct	-2,315.25	
	For >50 Tons, Deduct	-3,307.50	
05 12 23 00-0016	TON >10 To 20 Rolled C, MC Steel Channels	15,376.82	2,535.39
	For ASTM A242 Type 2 High Strength Steel, Add	1,013.79	
	For Hot Dip Galvanizing, Add	3,548.27	
	For >10 To 25 Tons, Deduct	-1,077.15	
	For >25 To 50 Tons, Deduct	-2,217.67	
	For >50 Tons, Deduct	-3,168.10	
05 12 23 00-0017	TON >20 To 58 LB/LF Rolled C, MC Steel Channels.....	12,002.35	845.04
	For ASTM A242 Type 2 High Strength Steel, Add	888.08	
	For Hot Dip Galvanizing, Add	3,108.29	
	For >10 To 25 Tons, Deduct	-943.59	
	For >25 To 50 Tons, Deduct	-1,942.68	
	For >50 Tons, Deduct	-2,775.26	
05 12 23 00-0018	Double L Shape Steel Angles <small>(05 12 23 00-0009)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0019	TON	Up To 20 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	16,301.08 1,034.07 3,619.24 -1,098.70 -2,262.02 -3,231.46	1,928.16
	05 12 23 00-0020	TON	>20 To 50 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,066.83 973.24 3,406.34 -1,034.07 -2,128.96 -3,041.38	845.04
	05 12 23 00-0021	TON	>50 To 80 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,884.65 750.21 2,625.72 -797.09 -1,641.07 -2,344.39	475.38
	05 12 23 00-0022	TON	>80 To 115 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,352.77 486.62 1,703.17 -517.03 -1,064.48 -1,520.69	253.41
	05 12 23 00-0023		Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
	05 12 23 00-0024	TON	Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,869.92 973.24 3,406.34 -1,034.07 -2,128.96 -3,041.38	1,426.15
	05 12 23 00-0025	TON	>30 To 65 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,203.01 744.12 2,604.43 -790.63 -1,627.77 -2,325.39	845.04
	05 12 23 00-0026	TON	>65 To 100 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,110.52 608.28 2,128.96 -646.29 -1,330.60 -1,900.86	475.38
	05 12 23 00-0027	TON	>100 To 365 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,998.36 458.23 1,603.82 -486.87 -1,002.39 -1,431.98	253.03
	05 12 23 00-0028		Combination Section Shapes (05 12 23 00-0001)		
	05 12 23 00-0029		Combination Section, W Shapes And Angles (05 12 23 00-0028)		
	05 12 23 00-0030	TON	Up To 30 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,084.23 910.38 3,186.35 -967.28 -1,991.47 -2,844.95	1,426.15
	05 12 23 00-0031	TON	>30-65 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,279.06 750.21 2,625.73 -797.10 -1,641.08 -2,344.40	845.04
	05 12 23 00-0032	TON	>65-100 LB/LF Combination Section - W Shapes And Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,476.89 557.58 1,951.55 -592.43 -1,219.72 -1,742.45	475.38
	05 12 23 00-0033	TON	>100-300 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,504.84 498.79 1,745.75 -529.96 -1,091.09 -1,558.71	253.03
	05 12 23 00-0034	TON	>300-500 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,635.05 439.99 1,539.95 -467.49 -962.47 -1,374.96	127.02

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0035 Combination Section, S Shapes And Angles <small>(05 12 23 00-0028)</small>		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	9,873.53	845.04
For ASTM A242 Type 2 High Strength Steel, Add	717.76	
For Hot Dip Galvanizing, Add	2,512.18	
For >10 To 25 Tons, Deduct	-762.63	
For >25 To 50 Tons, Deduct	-1,570.11	
For >50 Tons, Deduct	-2,243.02	
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	7,502.24	475.38
For ASTM A242 Type 2 High Strength Steel, Add	559.61	
For Hot Dip Galvanizing, Add	1,958.64	
For >10 To 25 Tons, Deduct	-594.59	
For >25 To 50 Tons, Deduct	-1,224.15	
For >50 Tons, Deduct	-1,748.79	
05 12 23 00-0038 Combination Section, Channels And Angles <small>(05 12 23 00-0028)</small>		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	14,869.92	1,426.15
For ASTM A242 Type 2 High Strength Steel, Add	973.24	
For Hot Dip Galvanizing, Add	3,406.34	
For >10 To 25 Tons, Deduct	-1,034.07	
For >25 To 50 Tons, Deduct	-2,128.96	
For >50 Tons, Deduct	-3,041.38	
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	10,785.94	845.04
For ASTM A242 Type 2 High Strength Steel, Add	790.76	
For Hot Dip Galvanizing, Add	2,767.65	
For >10 To 25 Tons, Deduct	-840.18	
For >25 To 50 Tons, Deduct	-1,729.78	
For >50 Tons, Deduct	-2,471.12	
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	7,679.66	475.38
For ASTM A242 Type 2 High Strength Steel, Add	573.81	
For Hot Dip Galvanizing, Add	2,008.32	
For >10 To 25 Tons, Deduct	-609.67	
For >25 To 50 Tons, Deduct	-1,255.20	
For >50 Tons, Deduct	-1,793.15	
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....	8,718.89	760.62
For ASTM A242 Type 2 High Strength Steel, Add	632.61	
For Hot Dip Galvanizing, Add	2,214.12	
For >10 To 25 Tons, Deduct	-672.14	
For >25 To 50 Tons, Deduct	-1,383.82	
For >50 Tons, Deduct	-1,976.89	
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....	9,276.56	950.77
For ASTM A242 Type 2 High Strength Steel, Add	660.99	
For Hot Dip Galvanizing, Add	2,313.47	
For >10 To 25 Tons, Deduct	-702.30	
For >25 To 50 Tons, Deduct	-1,445.92	
For >50 Tons, Deduct	-2,065.60	
05 12 23 00-0045 Temporary Steel Support For Structures <small>(05 12 23 00-0001)</small>		
Note: Includes removal after use.		
05 12 23 00-0046 TON Up To 30 LB/LF Temporary Steel Support For Structures.....	12,005.97	
Note: For all stock sections.		
05 12 23 00-0047 TON >30 LB/LF Temporary Steel Support For Structures.....	8,535.33	
Note: For all stock sections.		
05 12 23 00-0048 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.		
05 12 23 00-0049 Steel Rods <small>(05 12 23 00-0048)</small>		
05 12 23 00-0050 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....	9,453.83	594.30
For ASTM A242 Type 2 High Strength Steel, Add	705.60	
For Hot Dip Galvanizing, Add	2,469.59	
For >10 To 25 Tons, Deduct	-749.70	
For >25 To 50 Tons, Deduct	-1,543.50	
For >50 Tons, Deduct	-2,205.00	
05 12 23 00-0051 TON >5" To 12" Diameter Extra Strong Steel, Solid.....	10,785.94	845.04
For ASTM A242 Type 2 High Strength Steel, Add	790.76	
For Hot Dip Galvanizing, Add	2,767.65	
For >10 To 25 Tons, Deduct	-840.18	
For >25 To 50 Tons, Deduct	-1,729.78	
For >50 Tons, Deduct	-2,471.12	
05 12 23 00-0052 Column Base Plates <small>(05 12 23 00-0048)</small>		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0053 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items	4.61	0.76
For ASTM A242 Type 2 High Strength Steel, Add	0.30	
For Hot Dip Galvanizing, Add	1.06	
05 12 23 00-0054 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items	4.34	0.66
For ASTM A242 Type 2 High Strength Steel, Add	0.29	
For Hot Dip Galvanizing, Add	1.01	
05 12 23 00-0055 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items	8,565.09	679.69
For ASTM A242 Type 2 High Strength Steel, Add	627.21	
For Hot Dip Galvanizing, Add	2,195.23	
For >10 To 25 Tons, Deduct	-666.41	
For >25 To 50 Tons, Deduct	-1,372.02	
For >50 Tons, Deduct	-1,960.02	
05 12 23 00-0056 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items	6,105.64	407.81
For ASTM A242 Type 2 High Strength Steel, Add	453.65	
For Hot Dip Galvanizing, Add	1,587.78	
For >10 To 25 Tons, Deduct	-482.00	
For >25 To 50 Tons, Deduct	-992.36	
For >50 Tons, Deduct	-1,417.66	
05 12 23 00-0057 Double Extra Strong Pipes (05 12 23 00-0048)		
05 12 23 00-0058 TON 2" To 5" Diameter Double Extra Strong Pipe	11,246.27	1,086.54
For ASTM A242 Type 2 High Strength Steel, Add	806.98	
For Hot Dip Galvanizing, Add	2,824.42	
For >10 To 25 Tons, Deduct	-857.41	
For >25 To 50 Tons, Deduct	-1,765.27	
For >50 Tons, Deduct	-2,521.81	
05 12 23 00-0059 TON >5" To 8" Diameter Double Extra Strong Pipe	10,711.32	585.04
For ASTM A242 Type 2 High Strength Steel, Add	806.98	
For Hot Dip Galvanizing, Add	2,824.42	
For >10 To 25 Tons, Deduct	-857.41	
For >25 To 50 Tons, Deduct	-1,765.27	
For >50 Tons, Deduct	-2,521.81	
05 12 23 00-0060 Structural Pipes (05 12 23 00-0048)		
05 12 23 00-0061 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	7,868.93	502.01
For ASTM A242 Type 2 High Strength Steel, Add	567.72	
For Hot Dip Galvanizing, Add	1,987.03	
For >10 To 25 Tons, Deduct	-603.21	
For >25 To 50 Tons, Deduct	-1,241.89	
For >50 Tons, Deduct	-1,774.14	
05 12 23 00-0062 TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	8,373.81	578.96
For ASTM A242 Type 2 High Strength Steel, Add	567.72	
For Hot Dip Galvanizing, Add	1,987.03	
For >10 To 25 Tons, Deduct	-603.21	
For >25 To 50 Tons, Deduct	-1,241.89	
For >50 Tons, Deduct	-1,774.14	
05 12 23 00-0063 Structural Tubing (05 12 23 00-0048)		
05 12 23 00-0064 Rectangle Structural Tubing (05 12 23 00-0063)		
05 12 23 00-0065 TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle	13,213.28	507.08
For ASTM A242 Type 2 High Strength Steel, Add	1,013.79	
For Hot Dip Galvanizing, Add	3,548.27	
For >10 To 25 Tons, Deduct	-1,077.15	
For >25 To 50 Tons, Deduct	-2,217.67	
For >50 Tons, Deduct	-3,168.10	
05 12 23 00-0066 TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle	13,296.49	585.04
For ASTM A242 Type 2 High Strength Steel, Add	1,013.79	
For Hot Dip Galvanizing, Add	3,548.27	
For >10 To 25 Tons, Deduct	-1,077.15	
For >25 To 50 Tons, Deduct	-2,217.67	
For >50 Tons, Deduct	-3,168.10	
05 12 23 00-0067 TON 5" x 4", 3", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle	11,574.36	633.85
For ASTM A242 Type 2 High Strength Steel, Add	871.86	
For Hot Dip Galvanizing, Add	3,051.51	
For >10 To 25 Tons, Deduct	-926.35	
For >25 To 50 Tons, Deduct	-1,907.20	
For >50 Tons, Deduct	-2,724.57	
05 12 23 00-0068 TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	10,949.24	760.62
For ASTM A242 Type 2 High Strength Steel, Add	811.03	
For Hot Dip Galvanizing, Add	2,838.62	
For >10 To 25 Tons, Deduct	-861.72	
For >25 To 50 Tons, Deduct	-1,774.14	
For >50 Tons, Deduct	-2,534.48	
05 12 23 00-0069 TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	10,743.02	845.04
For ASTM A242 Type 2 High Strength Steel, Add	787.32	
For Hot Dip Galvanizing, Add	2,755.63	
For >10 To 25 Tons, Deduct	-836.53	
For >25 To 50 Tons, Deduct	-1,722.27	
For >50 Tons, Deduct	-2,460.39	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0070	TON		8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	10,856.99	1,169.45
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	768.76	
			<i>For Hot Dip Galvanizing, Add</i>	2,690.68	
			<i>For >10 To 25 Tons, Deduct</i>	-816.81	
			<i>For >25 To 50 Tons, Deduct</i>	-1,681.67	
			<i>For >50 Tons, Deduct</i>	-2,402.39	
05 12 23 00-0071	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	11,229.37	1,545.96
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	766.43	
			<i>For Hot Dip Galvanizing, Add</i>	2,682.49	
			<i>For >10 To 25 Tons, Deduct</i>	-814.33	
			<i>For >25 To 50 Tons, Deduct</i>	-1,676.56	
			<i>For >50 Tons, Deduct</i>	-2,395.08	
05 12 23 00-0072	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	11,483.05	1,688.69
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	774.54	
			<i>For Hot Dip Galvanizing, Add</i>	2,710.88	
			<i>For >10 To 25 Tons, Deduct</i>	-822.95	
			<i>For >25 To 50 Tons, Deduct</i>	-1,694.30	
			<i>For >50 Tons, Deduct</i>	-2,420.43	
05 12 23 00-0073	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	11,710.02	1,901.55
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	774.54	
			<i>For Hot Dip Galvanizing, Add</i>	2,710.88	
			<i>For >10 To 25 Tons, Deduct</i>	-822.95	
			<i>For >25 To 50 Tons, Deduct</i>	-1,694.30	
			<i>For >50 Tons, Deduct</i>	-2,420.43	
05 12 23 00-0074	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	12,284.75	2,535.39
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	766.43	
			<i>For Hot Dip Galvanizing, Add</i>	2,682.49	
			<i>For >10 To 25 Tons, Deduct</i>	-814.33	
			<i>For >25 To 50 Tons, Deduct</i>	-1,676.56	
			<i>For >50 Tons, Deduct</i>	-2,395.08	
05 12 23 00-0075	TON		18" x 6", 4" Weight Range 48-76 LB/LF Structural Tubing - Rectangle	13,588.04	3,994.89
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	746.15	
			<i>For Hot Dip Galvanizing, Add</i>	2,611.53	
			<i>For >10 To 25 Tons, Deduct</i>	-792.78	
			<i>For >25 To 50 Tons, Deduct</i>	-1,632.20	
			<i>For >50 Tons, Deduct</i>	-2,331.72	
05 12 23 00-0076	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	15,127.63	5,833.04
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	712.47	
			<i>For Hot Dip Galvanizing, Add</i>	2,493.63	
			<i>For >10 To 25 Tons, Deduct</i>	-756.99	
			<i>For >25 To 50 Tons, Deduct</i>	-1,558.52	
			<i>For >50 Tons, Deduct</i>	-2,226.46	
05 12 23 00-0077	Square Structural Tubing (05 12 23 00-0063)				
05 12 23 00-0078	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square	13,179.48	475.38
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	1,013.79	
			<i>For Hot Dip Galvanizing, Add</i>	3,548.27	
			<i>For >10 To 25 Tons, Deduct</i>	-1,077.15	
			<i>For >25 To 50 Tons, Deduct</i>	-2,217.67	
			<i>For >50 Tons, Deduct</i>	-3,168.10	
05 12 23 00-0079	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square	13,213.28	507.08
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	1,013.79	
			<i>For Hot Dip Galvanizing, Add</i>	3,548.27	
			<i>For >10 To 25 Tons, Deduct</i>	-1,077.15	
			<i>For >25 To 50 Tons, Deduct</i>	-2,217.67	
			<i>For >50 Tons, Deduct</i>	-3,168.10	
05 12 23 00-0080	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square	11,827.81	633.85
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	892.14	
			<i>For Hot Dip Galvanizing, Add</i>	3,122.48	
			<i>For >10 To 25 Tons, Deduct</i>	-947.90	
			<i>For >25 To 50 Tons, Deduct</i>	-1,951.55	
			<i>For >50 Tons, Deduct</i>	-2,787.93	
05 12 23 00-0081	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square	11,709.58	760.62
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	871.86	
			<i>For Hot Dip Galvanizing, Add</i>	3,051.51	
			<i>For >10 To 25 Tons, Deduct</i>	-926.35	
			<i>For >25 To 50 Tons, Deduct</i>	-1,907.20	
			<i>For >50 Tons, Deduct</i>	-2,724.57	
05 12 23 00-0082	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square	9,327.25	950.77
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	665.05	
			<i>For Hot Dip Galvanizing, Add</i>	2,327.67	
			<i>For >10 To 25 Tons, Deduct</i>	-706.61	
			<i>For >25 To 50 Tons, Deduct</i>	-1,454.79	
			<i>For >50 Tons, Deduct</i>	-2,078.27	
05 12 23 00-0083	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square	9,472.13	1,086.54
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	665.05	
			<i>For Hot Dip Galvanizing, Add</i>	2,327.67	
			<i>For >10 To 25 Tons, Deduct</i>	-706.61	
			<i>For >25 To 50 Tons, Deduct</i>	-1,454.79	
			<i>For >50 Tons, Deduct</i>	-2,078.27	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0084	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,935.74 665.05 2,327.67 -706.61 -1,454.79 -2,078.27	1,521.23
05 12 23 00-0085	TON		7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,493.47 677.21 2,370.24 -719.54 -1,481.40 -2,116.29	1,901.55
05 12 23 00-0086	TON		8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,538.20 786.70 2,753.46 -835.87 -1,720.91 -2,458.45	2,535.39
05 12 23 00-0087	TON		10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,890.40 786.70 2,753.46 -835.87 -1,720.91 -2,458.45	3,803.08
05 12 23 00-0088	TON		12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,226.45 677.21 2,370.24 -719.54 -1,481.40 -2,116.29	4,463.68
05 12 23 00-0089	TON		14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	15,852.83 770.48 2,696.69 -818.64 -1,685.43 -2,407.76	5,833.04
05 12 23 00-0090	TON		16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	17,947.03 786.70 2,753.46 -835.87 -1,720.91 -2,458.45	7,606.17
05 12 23 00-0091			Galvanized Steel Pipe Tubing (05 12 23 00-0063) Note: ASTM A53 Grade B		
05 12 23 00-0092	LF		2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	47.85	5.55
05 12 23 00-0093	LF		2-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	52.50	6.61
05 12 23 00-0094	LF		3" Diameter Galvanized Steel Pipe Tubing, Standard Weight	58.10	8.78
05 12 23 00-0095	LF		3-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	62.65	9.78
05 12 23 00-0096	LF		4" Diameter Galvanized Steel Pipe Tubing, Standard Weight	65.50	10.57
05 12 23 00-0097	LF		5" Diameter Galvanized Steel Pipe Tubing, Standard Weight	73.32	13.22
05 12 23 00-0098	LF		6" Diameter Galvanized Steel Pipe Tubing, Standard Weight	81.14	15.86
05 12 23 00-0099	LF		8" Diameter Galvanized Steel Pipe Tubing, Standard Weight	88.75	19.03
05 12 23 00-0100	LF		10" Diameter Galvanized Steel Pipe Tubing, Standard Weight	99.75	23.26
05 12 23 00-0101	LF		12" Diameter Galvanized Steel Pipe Tubing, Standard Weight	117.09	29.60
05 12 23 00-0102			Structural Shapes (05 12 23 00-0048)		
05 12 23 00-0103	TON		Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF) <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >20 To 50 LB/LF, Deduct</i> <i>For >50 To 75 LB/LF, Deduct</i> <i>For >75 To 100 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,525.47 336.80 1,178.79 -1,068.32 -1,710.37 -2,352.42 -357.85 -736.75 -1,052.50	2,718.76
05 12 23 00-0104	TON		Structural Shapes, Steel Plate A36 Structural Steel Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >21.5 To 50 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,556.66 648.84 2,270.94 -1,027.97 -689.39 -1,419.34 -2,027.63	1,087.51
05 12 23 00-0105	LB		Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	5.60	0.24
05 12 23 00-0106	LB		Structural Shapes, Galvanized Pipe Supports	6.86	0.24
05 12 23 00-0107			Built-Up Trusses (05 12 23 00-0048)		
05 12 23 00-0108	TON		Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,720.99 -876.80 -1,805.18 -2,578.83	380.31

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0109	TON		>50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	10,642.07	211.20
			<i>For >10 To 25 Tons, Deduct</i>	-885.42	
			<i>For >25 To 50 Tons, Deduct</i>	-1,822.92	
			<i>For >50 Tons, Deduct</i>	-2,604.18	
05 12 23 00-0110	TON		>100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	9,496.88	111.81
			<i>For >10 To 25 Tons, Deduct</i>	-797.09	
			<i>For >25 To 50 Tons, Deduct</i>	-1,641.07	
			<i>For >50 Tons, Deduct</i>	-2,344.39	
05 12 23 00-0111	TON		>200 LF Span Average Weight 180 LB/LF Trusses, Built-up	9,236.80	105.73
			<i>For >10 To 25 Tons, Deduct</i>	-775.55	
			<i>For >25 To 50 Tons, Deduct</i>	-1,596.72	
			<i>For >50 Tons, Deduct</i>	-2,281.03	
05 12 23 00-0112			Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0048)		
			Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0113	SF		1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	34.07	7.83
05 12 23 00-0114	SF		3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	51.10	11.71
05 12 23 00-0115	SF		1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	68.13	15.61
05 12 23 00-0116	SF		5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	85.16	19.52
05 12 23 00-0117	SF		3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	102.20	23.31
05 12 23 00-0118	SF		7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	119.23	27.32
05 12 23 00-0119	SF		1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	136.26	31.23
05 12 23 00-0120	SF		1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	153.29	35.13
05 12 23 00-0121	SF		1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	170.34	39.02
05 12 23 00-0122	SF		1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	187.36	42.93
05 12 23 00-0123	SF		1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	204.40	46.83
05 12 23 00-0124	SF		1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	221.42	50.73
05 12 23 00-0125	SF		1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	238.47	54.64
05 12 23 00-0126	SF		1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	255.49	58.54
05 12 23 00-0127	SF		2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	272.53	62.44
05 12 23 00-0128			Accessories For Steel (05 12 23)		
05 12 23 00-0129			Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0128)		
05 12 23 00-0130	SF		Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.55	
05 12 23 00-0131			Connection And Stiffener Plates (05 12 23 00-0128)		
			Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0132	TON		1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	23,414.23	
			<i>For >10 To 25 Tons, Deduct</i>	-1,990.21	
			<i>For >25 To 50 Tons, Deduct</i>	-4,097.49	
			<i>For >50 Tons, Deduct</i>	-5,853.56	
05 12 23 00-0133	TON		3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	19,976.92	
			<i>For >10 To 25 Tons, Deduct</i>	-1,698.04	
			<i>For >25 To 50 Tons, Deduct</i>	-3,495.96	
			<i>For >50 Tons, Deduct</i>	-4,994.23	
05 12 23 00-0134	TON		1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0135	TON		5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0136	TON		3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0137	TON		1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0138	TON		9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0139	TON		5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	15,448.56	
			<i>For >10 To 25 Tons, Deduct</i>	-1,313.13	
			<i>For >25 To 50 Tons, Deduct</i>	-2,703.50	
			<i>For >50 Tons, Deduct</i>	-3,862.14	
05 12 23 00-0140	TON		3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	14,483.03	
			<i>For >10 To 25 Tons, Deduct</i>	-1,231.06	
			<i>For >25 To 50 Tons, Deduct</i>	-2,534.53	
			<i>For >50 Tons, Deduct</i>	-3,620.76	
05 12 23 00-0141	TON		7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	14,483.03	
			<i>For >10 To 25 Tons, Deduct</i>	-1,231.06	
			<i>For >25 To 50 Tons, Deduct</i>	-2,534.53	
			<i>For >50 Tons, Deduct</i>	-3,620.76	
05 12 23 00-0142	TON		1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	14,483.03	
			<i>For >10 To 25 Tons, Deduct</i>	-1,231.06	
			<i>For >25 To 50 Tons, Deduct</i>	-2,534.53	
			<i>For >50 Tons, Deduct</i>	-3,620.76	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0143				Field Applied Cold Galvanizing <small>(05 12 23 00-0128)</small>		
05 12 23 00-0144	SF			Brush Applied Cold Galvanizing	2.06	
05 12 23 00-0145				Metal Grinding <small>(05 12 23 00-0128)</small>		
				Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0146	SI			Metal Grinding Up To 1/32" Thickness To Be Removed.....	1.19	
				Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0147				Structural Steel For Buildings And Structures <small>(05 12 23)</small>		
				Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0148				First Tier A992/A36 Structural Steel Columns, W Shapes <small>(05 12 23 00-0147)</small>		
				Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0149	LF			W14 x 730 A992/A36 Structural Column	1,663.19	75.41
				For Hot Dip Galvanizing, Add	439.23	
				For High Strength Low Alloy A572-50 Steel, Add	149.69	
				For High Strength Low Alloy A588 Grade B Steel, Add	332.64	
05 12 23 00-0150	LF			W14 x 665 A992/A36 Structural Column	1,516.79	70.29
				For Hot Dip Galvanizing, Add	400.12	
				For High Strength Low Alloy A572-50 Steel, Add	136.51	
				For High Strength Low Alloy A588 Grade B Steel, Add	303.36	
05 12 23 00-0151	LF			W14 x 605 A992/A36 Structural Column	1,381.52	65.43
				For Hot Dip Galvanizing, Add	364.02	
				For High Strength Low Alloy A572-50 Steel, Add	124.34	
				For High Strength Low Alloy A588 Grade B Steel, Add	276.30	
05 12 23 00-0152	LF			W14 x 550 A992/A36 Structural Column	1,257.40	60.85
				For Hot Dip Galvanizing, Add	330.92	
				For High Strength Low Alloy A572-50 Steel, Add	113.17	
				For High Strength Low Alloy A588 Grade B Steel, Add	251.48	
05 12 23 00-0153	LF			W14 x 500 A992/A36 Structural Column	1,154.45	65.92
				For Hot Dip Galvanizing, Add	300.84	
				For High Strength Low Alloy A572-50 Steel, Add	103.90	
				For High Strength Low Alloy A588 Grade B Steel, Add	230.89	
05 12 23 00-0154	LF			W14 x 426 A992/A36 Structural Column	985.00	57.55
				For Hot Dip Galvanizing, Add	256.32	
				For High Strength Low Alloy A572-50 Steel, Add	88.65	
				For High Strength Low Alloy A588 Grade B Steel, Add	197.00	
05 12 23 00-0155	LF			W14 x 342 A992/A36 Structural Column	796.45	49.82
				For Hot Dip Galvanizing, Add	206.29	
				For High Strength Low Alloy A572-50 Steel, Add	71.68	
				For High Strength Low Alloy A588 Grade B Steel, Add	159.29	
05 12 23 00-0156	LF			W14 x 311 A992/A36 Structural Column	717.32	46.53
				For Hot Dip Galvanizing, Add	185.28	
				For High Strength Low Alloy A572-50 Steel, Add	64.56	
				For High Strength Low Alloy A588 Grade B Steel, Add	143.46	
05 12 23 00-0157	LF			W14 x 283 A992/A36 Structural Column	651.08	43.87
				For Hot Dip Galvanizing, Add	167.71	
				For High Strength Low Alloy A572-50 Steel, Add	58.60	
				For High Strength Low Alloy A588 Grade B Steel, Add	130.22	
05 12 23 00-0158	LF			W14 x 257 A992/A36 Structural Column	572.25	41.58
				For Hot Dip Galvanizing, Add	146.50	
				For High Strength Low Alloy A572-50 Steel, Add	51.50	
				For High Strength Low Alloy A588 Grade B Steel, Add	114.45	
05 12 23 00-0159	LF			W14 x 233 A992/A36 Structural Column	526.63	38.67
				For Hot Dip Galvanizing, Add	134.70	
				For High Strength Low Alloy A572-50 Steel, Add	47.40	
				For High Strength Low Alloy A588 Grade B Steel, Add	105.33	
05 12 23 00-0160	LF			W14 x 211 A992/A36 Structural Column	468.40	36.00
				For Hot Dip Galvanizing, Add	119.32	
				For High Strength Low Alloy A572-50 Steel, Add	42.16	
				For High Strength Low Alloy A588 Grade B Steel, Add	93.68	
05 12 23 00-0161	LF			W14 x 193 A992/A36 Structural Column	423.63	34.23
				For Hot Dip Galvanizing, Add	107.43	
				For High Strength Low Alloy A572-50 Steel, Add	38.13	
				For High Strength Low Alloy A588 Grade B Steel, Add	84.73	
05 12 23 00-0162	LF			W14 x 176 A992/A36 Structural Column	381.81	32.70
				For Hot Dip Galvanizing, Add	96.28	
				For High Strength Low Alloy A572-50 Steel, Add	34.36	
				For High Strength Low Alloy A588 Grade B Steel, Add	76.36	
05 12 23 00-0163	LF			W14 x 159 A992/A36 Structural Column	345.20	31.56
				For Hot Dip Galvanizing, Add	86.47	
				For High Strength Low Alloy A572-50 Steel, Add	31.07	
				For High Strength Low Alloy A588 Grade B Steel, Add	69.04	
05 12 23 00-0164	LF			W14 x 145 A992/A36 Structural Column	333.59	30.55
				For Hot Dip Galvanizing, Add	83.53	
				For High Strength Low Alloy A572-50 Steel, Add	30.02	
				For High Strength Low Alloy A588 Grade B Steel, Add	66.72	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0165	LF		W14 x 132 A992/A36 Structural Column	285.25	29.16
			<i>For Hot Dip Galvanizing, Add</i>	70.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.67	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	57.05	
05 12 23 00-0166	LF		W14 x 120 A992/A36 Structural Column	267.44	28.39
			<i>For Hot Dip Galvanizing, Add</i>	65.81	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.07	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	53.49	
05 12 23 00-0167	LF		W14 x 109 A992/A36 Structural Column	239.45	27.26
			<i>For Hot Dip Galvanizing, Add</i>	58.39	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.55	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.89	
05 12 23 00-0168	LF		W14 x 99 A992/A36 Structural Column	218.47	26.49
			<i>For Hot Dip Galvanizing, Add</i>	52.82	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.66	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.69	
05 12 23 00-0169	LF		W14 x 90 A992/A36 Structural Column	202.95	25.86
			<i>For Hot Dip Galvanizing, Add</i>	48.68	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.59	
05 12 23 00-0170	LF		W14 x 82 A992/A36 Structural Column	186.94	25.10
			<i>For Hot Dip Galvanizing, Add</i>	44.45	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.39	
05 12 23 00-0171	LF		W14 x 74 A992/A36 Structural Column	168.78	24.46
			<i>For Hot Dip Galvanizing, Add</i>	39.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.19	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.76	
05 12 23 00-0172	LF		W14 x 68 A992/A36 Structural Column	157.64	24.09
			<i>For Hot Dip Galvanizing, Add</i>	36.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.19	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.53	
05 12 23 00-0173	LF		W14 x 61 A992/A36 Structural Column	143.72	23.46
			<i>For Hot Dip Galvanizing, Add</i>	32.95	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.93	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.74	
05 12 23 00-0174	LF		W14 x 53 A992/A36 Structural Column	130.90	22.82
			<i>For Hot Dip Galvanizing, Add</i>	29.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.78	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.18	
05 12 23 00-0175	LF		W14 x 48 A992/A36 Structural Column	122.63	22.44
			<i>For Hot Dip Galvanizing, Add</i>	27.38	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.04	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.53	
05 12 23 00-0176	LF		W14 x 43 A992/A36 Structural Column	110.64	22.06
			<i>For Hot Dip Galvanizing, Add</i>	24.19	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.96	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.13	
05 12 23 00-0177	LF		W12 x 336 A992/A36 Structural Column	758.46	33.58
			<i>For Hot Dip Galvanizing, Add</i>	200.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	68.26	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	151.69	
05 12 23 00-0178	LF		W12 x 305 A992/A36 Structural Column	691.07	32.91
			<i>For Hot Dip Galvanizing, Add</i>	182.03	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	62.20	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	138.21	
05 12 23 00-0179	LF		W12 x 279 A992/A36 Structural Column	634.71	32.52
			<i>For Hot Dip Galvanizing, Add</i>	166.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	57.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	126.94	
05 12 23 00-0180	LF		W12 x 252 A992/A36 Structural Column	575.78	31.71
			<i>For Hot Dip Galvanizing, Add</i>	150.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	51.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	115.16	
05 12 23 00-0181	LF		W12 x 230 A992/A36 Structural Column	527.99	31.25
			<i>For Hot Dip Galvanizing, Add</i>	137.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	47.52	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	105.60	
05 12 23 00-0182	LF		W12 x 210 A992/A36 Structural Column	484.50	30.81
			<i>For Hot Dip Galvanizing, Add</i>	125.34	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	43.61	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	96.90	
05 12 23 00-0183	LF		W12 x 190 A992/A36 Structural Column	446.05	34.99
			<i>For Hot Dip Galvanizing, Add</i>	113.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	40.14	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.21	
05 12 23 00-0184	LF		W12 x 170 A992/A36 Structural Column	403.04	33.97
			<i>For Hot Dip Galvanizing, Add</i>	101.82	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	80.61	
05 12 23 00-0185	LF		W12 x 152 A992/A36 Structural Column	363.31	31.56
			<i>For Hot Dip Galvanizing, Add</i>	91.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	32.70	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0186	LF		W12 x 136 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	345.38 86.77 31.08 69.08	30.68
05 12 23 00-0187	LF		W12 x 120 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	261.40 64.17 23.53 52.28	28.14
05 12 23 00-0188	LF		W12 x 106 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	240.89 58.79 21.68 48.18	27.26
05 12 23 00-0189	LF		W12 x 96 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	215.48 52.02 19.39 43.10	26.37
05 12 23 00-0190	LF		W12 x 87 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	198.75 47.59 17.89 39.75	25.48
05 12 23 00-0191	LF		W12 x 79 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	174.37 41.07 15.69 34.87	24.72
05 12 23 00-0192	LF		W12 x 72 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	159.55 37.14 14.36 31.91	24.09
05 12 23 00-0193	LF		W12 x 65 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	145.83 33.50 13.12 29.17	23.58
05 12 23 00-0194	LF		W12 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	141.09 32.26 12.70 28.22	23.33
05 12 23 00-0195	LF		W12 x 53 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	130.90 29.57 11.78 26.18	22.82
05 12 23 00-0196	LF		W12 x 50 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	126.82 28.47 11.41 25.36	22.70
05 12 23 00-0197	LF		W12 x 45 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	115.20 25.39 10.37 23.04	22.19
05 12 23 00-0198	LF		W12 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	103.21 22.20 9.29 20.64	21.68
05 12 23 00-0199	LF		W10 x 112 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	251.98 61.73 22.68 50.40	27.76
05 12 23 00-0200	LF		W10 x 110 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	227.87 55.36 20.51 45.57	26.62
05 12 23 00-0201	LF		W10 x 88 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	204.79 49.23 18.43 40.96	25.73
05 12 23 00-0202	LF		W10 x 77 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	182.08 43.21 16.39 36.42	24.72
05 12 23 00-0203	LF		W10 x 68 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	163.92 38.38 14.75 32.78	24.09
05 12 23 00-0204	LF		W10 x 60 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	143.72 32.95 12.93 28.74	23.46
05 12 23 00-0205	LF		W10 x 54 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	142.76 32.76 12.85 28.55	23.07
05 12 23 00-0206	LF		W10 x 49 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	125.26 28.07 11.27 25.05	22.70

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0207	LF W10 x 45 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	120.88 26.93 10.88 24.18	22.31
05 12 23 00-0208	LF W10 x 39 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	105.13 22.70 9.46 21.03	21.93
05 12 23 00-0209	LF W10 x 33 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.59 19.12 8.24 18.32	21.29
05 12 23 00-0210	LF W8 x 67 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	157.82 36.69 14.20 31.56	24.09
05 12 23 00-0211	LF W8 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	141.63 32.41 12.75 28.33	23.33
05 12 23 00-0212	LF W8 x 48 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	126.70 28.47 11.40 25.34	22.70
05 12 23 00-0213	LF W8 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	108.67 23.65 9.78 21.73	22.06
05 12 23 00-0214	LF W8 x 35 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.11 20.86 8.83 19.62	21.55
05 12 23 00-0215	LF W8 x 31 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.61 18.57 8.06 17.92	21.29
05 12 23 00-0216	LF W8 x 28 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	84.33 17.17 7.59 16.87	21.04
05 12 23 00-0217	LF W8 x 24 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	77.98 15.48 7.02 15.60	20.79
05 12 23 00-0218	LF W8 x 21 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	73.77 14.39 6.64 14.75	20.66
05 12 23 00-0219	LF W8 x 18 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	65.81 12.25 5.92 13.16	20.29
05 12 23 00-0220	LF W6 x 25 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.93 16.58 7.37 16.39	20.79
05 12 23 00-0221	LF W6 x 20 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	69.16 13.14 6.22 13.83	20.41
05 12 23 00-0222	LF W6 x 15 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.20 10.55 5.33 11.84	19.78
05 12 23 00-0223	LF W6 x 12 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	55.43 9.51 4.99 11.09	19.78
05 12 23 00-0224	LF W6 x 9 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	50.64 8.21 4.56 10.13	19.65
05 12 23 00-0225	LF W5 x 19 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	68.08 12.84 6.13 13.62	20.41
05 12 23 00-0226	LF W5 x 16 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	62.63 11.40 5.64 12.53	20.29
05 12 23 00-0227	LF W4 x 13 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.60 10.35 5.27 11.72	20.03



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0228 A992/A36 Structural Steel Beams And Girders, W Shapes <small>(05 12 23 00-0147)</small>		
<small>Note: Includes material delivery and erection.</small>		
05 12 23 00-0229 LF W36 x 300 A992/A36 Structural Beam Or Girder	597.42	82.59
<i>For Hot Dip Galvanizing, Add</i>	141.34	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	53.77	
<i>For High Strength Low Alloy A588 Steel, Add</i>	119.48	
<i>For Each Additional Top Copes >2, Add</i>	5.09	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-195.88	
<i>For Skewed Or Sloped Connections, Add</i>	71.69	
05 12 23 00-0230 LF W36 x 280 A992/A36 Structural Beam Or Girder	576.80	95.08
<i>For Hot Dip Galvanizing, Add</i>	131.92	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	51.91	
<i>For High Strength Low Alloy A588 Steel, Add</i>	115.36	
<i>For Each Additional Top Copes >2, Add</i>	4.75	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-186.67	
<i>For Skewed Or Sloped Connections, Add</i>	69.22	
05 12 23 00-0231 LF W36 x 260 A992/A36 Structural Beam Or Girder	545.98	93.94
<i>For Hot Dip Galvanizing, Add</i>	123.72	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	49.14	
<i>For High Strength Low Alloy A588 Steel, Add</i>	109.20	
<i>For Each Additional Top Copes >2, Add</i>	4.46	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-176.07	
<i>For Skewed Or Sloped Connections, Add</i>	65.52	
05 12 23 00-0232 LF W36 x 240 A992/A36 Structural Beam Or Girder	508.29	79.59
<i>For Hot Dip Galvanizing, Add</i>	117.49	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	45.75	
<i>For High Strength Low Alloy A588 Steel, Add</i>	101.66	
<i>For Each Additional Top Copes >2, Add</i>	4.23	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-165.17	
<i>For Skewed Or Sloped Connections, Add</i>	60.99	
05 12 23 00-0233 LF W36 x 230 A992/A36 Structural Beam Or Girder	491.84	80.73
<i>For Hot Dip Galvanizing, Add</i>	112.60	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	44.27	
<i>For High Strength Low Alloy A588 Steel, Add</i>	98.37	
<i>For Each Additional Top Copes >2, Add</i>	4.06	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-159.23	
<i>For Skewed Or Sloped Connections, Add</i>	59.02	
05 12 23 00-0234 LF W36 x 210 A992/A36 Structural Beam Or Girder	467.44	90.89
<i>For Hot Dip Galvanizing, Add</i>	102.80	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	42.07	
<i>For High Strength Low Alloy A588 Steel, Add</i>	93.49	
<i>For Each Additional Top Copes >2, Add</i>	3.70	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-149.06	
<i>For Skewed Or Sloped Connections, Add</i>	56.09	
05 12 23 00-0235 LF W36 x 194 A992/A36 Structural Beam Or Girder	440.15	77.21
<i>For Hot Dip Galvanizing, Add</i>	99.29	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	39.61	
<i>For High Strength Low Alloy A588 Steel, Add</i>	88.03	
<i>For Each Additional Top Copes >2, Add</i>	3.58	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-141.70	
<i>For Skewed Or Sloped Connections, Add</i>	52.82	
05 12 23 00-0236 LF W36 x 182 A992/A36 Structural Beam Or Girder	417.43	76.64
<i>For Hot Dip Galvanizing, Add</i>	93.15	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	37.57	
<i>For High Strength Low Alloy A588 Steel, Add</i>	83.49	
<i>For Each Additional Top Copes >2, Add</i>	3.36	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-133.84	
<i>For Skewed Or Sloped Connections, Add</i>	50.09	
05 12 23 00-0237 LF W36 x 170 A992/A36 Structural Beam Or Girder	394.35	75.76
<i>For Hot Dip Galvanizing, Add</i>	87.01	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	35.49	
<i>For High Strength Low Alloy A588 Steel, Add</i>	78.87	
<i>For Each Additional Top Copes >2, Add</i>	3.14	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-125.90	
<i>For Skewed Or Sloped Connections, Add</i>	47.32	
05 12 23 00-0238 LF W36 x 160 A992/A36 Structural Beam Or Girder	388.91	87.98
<i>For Hot Dip Galvanizing, Add</i>	81.89	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	35.00	
<i>For High Strength Low Alloy A588 Steel, Add</i>	77.78	
<i>For Each Additional Top Copes >2, Add</i>	2.95	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-122.05	
<i>For Skewed Or Sloped Connections, Add</i>	46.67	
05 12 23 00-0239 LF W36 x 150 A992/A36 Structural Beam Or Girder	372.81	87.35
<i>For Hot Dip Galvanizing, Add</i>	77.60	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	33.55	
<i>For High Strength Low Alloy A588 Steel, Add</i>	74.56	
<i>For Each Additional Top Copes >2, Add</i>	2.80	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-116.51	
<i>For Skewed Or Sloped Connections, Add</i>	44.74	
05 12 23 00-0240 LF W36 x 135 A992/A36 Structural Beam Or Girder	350.31	86.59
<i>For Hot Dip Galvanizing, Add</i>	71.60	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.53	
<i>For High Strength Low Alloy A588 Steel, Add</i>	70.06	
<i>For Each Additional Top Copes >2, Add</i>	2.58	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-108.77	
<i>For Skewed Or Sloped Connections, Add</i>	42.04	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0241	LF		W33 x 241 A992/A36 Structural Beam Or Girder	514.64	82.10
			For Hot Dip Galvanizing, Add	118.51	
			For High Strength Low Alloy A572-50 Steel, Add	46.32	
			For High Strength Low Alloy A588 Steel, Add	102.93	
			For Each Additional Top Copes >2, Add	4.27	
			For Structural Tees, WT, MT Or ST, Deduct	-166.99	
			For Skewed Or Sloped Connections, Add	61.76	
05 12 23 00-0242	LF		W33 x 221 A992/A36 Structural Beam Or Girder	477.06	80.09
			For Hot Dip Galvanizing, Add	108.68	
			For High Strength Low Alloy A572-50 Steel, Add	42.94	
			For High Strength Low Alloy A588 Steel, Add	95.41	
			For Each Additional Top Copes >2, Add	3.92	
			For Structural Tees, WT, MT Or ST, Deduct	-154.16	
			For Skewed Or Sloped Connections, Add	57.25	
05 12 23 00-0243	LF		W33 x 201 A992/A36 Structural Beam Or Girder	452.53	90.26
			For Hot Dip Galvanizing, Add	98.84	
			For High Strength Low Alloy A572-50 Steel, Add	40.73	
			For High Strength Low Alloy A588 Steel, Add	90.51	
			For Each Additional Top Copes >2, Add	3.56	
			For Structural Tees, WT, MT Or ST, Deduct	-143.93	
			For Skewed Or Sloped Connections, Add	54.30	
05 12 23 00-0244	LF		W33 x 170 A992/A36 Structural Beam Or Girder	406.21	88.61
			For Hot Dip Galvanizing, Add	86.51	
			For High Strength Low Alloy A572-50 Steel, Add	36.56	
			For High Strength Low Alloy A588 Steel, Add	81.24	
			For Each Additional Top Copes >2, Add	3.12	
			For Structural Tees, WT, MT Or ST, Deduct	-128.01	
			For Skewed Or Sloped Connections, Add	48.75	
05 12 23 00-0245	LF		W33 x 152 A992/A36 Structural Beam Or Girder	368.74	75.52
			For Hot Dip Galvanizing, Add	79.97	
			For High Strength Low Alloy A572-50 Steel, Add	33.19	
			For High Strength Low Alloy A588 Steel, Add	73.75	
			For Each Additional Top Copes >2, Add	2.88	
			For Structural Tees, WT, MT Or ST, Deduct	-116.98	
			For Skewed Or Sloped Connections, Add	44.25	
05 12 23 00-0246	LF		W33 x 141 A992/A36 Structural Beam Or Girder	360.01	86.84
			For Hot Dip Galvanizing, Add	74.19	
			For High Strength Low Alloy A572-50 Steel, Add	32.40	
			For High Strength Low Alloy A588 Steel, Add	72.00	
			For Each Additional Top Copes >2, Add	2.67	
			For Structural Tees, WT, MT Or ST, Deduct	-112.10	
			For Skewed Or Sloped Connections, Add	43.20	
05 12 23 00-0247	LF		W33 x 130 A992/A36 Structural Beam Or Girder	341.79	86.20
			For Hot Dip Galvanizing, Add	69.34	
			For High Strength Low Alloy A572-50 Steel, Add	30.76	
			For High Strength Low Alloy A588 Steel, Add	68.36	
			For Each Additional Top Copes >2, Add	2.50	
			For Structural Tees, WT, MT Or ST, Deduct	-105.84	
			For Skewed Or Sloped Connections, Add	41.01	
05 12 23 00-0248	LF		W33 x 118 A992/A36 Structural Beam Or Girder	320.61	85.44
			For Hot Dip Galvanizing, Add	63.68	
			For High Strength Low Alloy A572-50 Steel, Add	28.85	
			For High Strength Low Alloy A588 Steel, Add	64.12	
			For Each Additional Top Copes >2, Add	2.29	
			For Structural Tees, WT, MT Or ST, Deduct	-98.54	
			For Skewed Or Sloped Connections, Add	38.47	
05 12 23 00-0249	LF		W30 x 211 A992/A36 Structural Beam Or Girder	457.28	79.94
			For Hot Dip Galvanizing, Add	103.23	
			For High Strength Low Alloy A572-50 Steel, Add	41.16	
			For High Strength Low Alloy A588 Steel, Add	91.46	
			For Each Additional Top Copes >2, Add	3.72	
			For Structural Tees, WT, MT Or ST, Deduct	-147.26	
			For Skewed Or Sloped Connections, Add	54.87	
05 12 23 00-0250	LF		W30 x 191 A992/A36 Structural Beam Or Girder	432.46	89.62
			For Hot Dip Galvanizing, Add	93.45	
			For High Strength Low Alloy A572-50 Steel, Add	38.92	
			For High Strength Low Alloy A588 Steel, Add	86.49	
			For Each Additional Top Copes >2, Add	3.37	
			For Structural Tees, WT, MT Or ST, Deduct	-137.00	
			For Skewed Or Sloped Connections, Add	51.90	
05 12 23 00-0251	LF		W30 x 173 A992/A36 Structural Beam Or Girder	395.72	76.29
			For Hot Dip Galvanizing, Add	87.23	
			For High Strength Low Alloy A572-50 Steel, Add	35.61	
			For High Strength Low Alloy A588 Steel, Add	79.14	
			For Each Additional Top Copes >2, Add	3.14	
			For Structural Tees, WT, MT Or ST, Deduct	-126.30	
			For Skewed Or Sloped Connections, Add	47.49	
05 12 23 00-0252	LF		W30 x 154 A992/A36 Structural Beam Or Girder	373.13	87.47
			For Hot Dip Galvanizing, Add	77.65	
			For High Strength Low Alloy A572-50 Steel, Add	33.58	
			For High Strength Low Alloy A588 Steel, Add	74.63	
			For Each Additional Top Copes >2, Add	2.80	
			For Structural Tees, WT, MT Or ST, Deduct	-116.60	
			For Skewed Or Sloped Connections, Add	44.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0253 LF W30 x 132 A992/A36 Structural Beam Or Girder	332.17	73.61
<i>For Hot Dip Galvanizing, Add</i>	70.39	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.90	
<i>For High Strength Low Alloy A588 Steel, Add</i>	66.43	
<i>For Each Additional Top Copes >2, Add</i>	2.54	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-104.48	
<i>For Skewed Or Sloped Connections, Add</i>	39.86	
05 12 23 00-0254 LF W30 x 124 A992/A36 Structural Beam Or Girder	316.75	73.56
<i>For Hot Dip Galvanizing, Add</i>	66.13	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.51	
<i>For High Strength Low Alloy A588 Steel, Add</i>	63.35	
<i>For Each Additional Top Copes >2, Add</i>	2.38	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-99.09	
<i>For Skewed Or Sloped Connections, Add</i>	38.01	
05 12 23 00-0255 LF W30 x 116 A992/A36 Structural Beam Or Girder	313.94	85.32
<i>For Hot Dip Galvanizing, Add</i>	61.86	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.25	
<i>For High Strength Low Alloy A588 Steel, Add</i>	62.79	
<i>For Each Additional Top Copes >2, Add</i>	2.23	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-96.22	
<i>For Skewed Or Sloped Connections, Add</i>	37.67	
05 12 23 00-0256 LF W30 x 108 A992/A36 Structural Beam Or Girder	290.52	76.82
<i>For Hot Dip Galvanizing, Add</i>	57.89	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.15	
<i>For High Strength Low Alloy A588 Steel, Add</i>	58.10	
<i>For Each Additional Top Copes >2, Add</i>	2.09	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-89.40	
<i>For Skewed Or Sloped Connections, Add</i>	34.86	
05 12 23 00-0257 LF W30 x 99 A992/A36 Structural Beam Or Girder	277.52	76.44
<i>For Hot Dip Galvanizing, Add</i>	54.43	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.98	
<i>For High Strength Low Alloy A588 Steel, Add</i>	55.50	
<i>For Each Additional Top Copes >2, Add</i>	1.96	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-84.93	
<i>For Skewed Or Sloped Connections, Add</i>	33.30	
05 12 23 00-0258 LF W27 x 178 A992/A36 Structural Beam Or Girder	439.64	89.32
<i>For Hot Dip Galvanizing, Add</i>	95.56	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	39.57	
<i>For High Strength Low Alloy A588 Steel, Add</i>	87.93	
<i>For Each Additional Top Copes >2, Add</i>	3.44	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-139.58	
<i>For Skewed Or Sloped Connections, Add</i>	52.76	
05 12 23 00-0259 LF W27 x 161 A992/A36 Structural Beam Or Girder	403.15	85.94
<i>For Hot Dip Galvanizing, Add</i>	86.43	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.28	
<i>For High Strength Low Alloy A588 Steel, Add</i>	80.63	
<i>For Each Additional Top Copes >2, Add</i>	3.11	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-127.35	
<i>For Skewed Or Sloped Connections, Add</i>	48.38	
05 12 23 00-0260 LF W27 x 146 A992/A36 Structural Beam Or Girder	370.89	82.91
<i>For Hot Dip Galvanizing, Add</i>	78.38	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	33.38	
<i>For High Strength Low Alloy A588 Steel, Add</i>	74.18	
<i>For Each Additional Top Copes >2, Add</i>	2.82	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-116.55	
<i>For Skewed Or Sloped Connections, Add</i>	44.51	
05 12 23 00-0261 LF W27 x 114 A992/A36 Structural Beam Or Girder	294.00	68.87
<i>For Hot Dip Galvanizing, Add</i>	61.20	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.46	
<i>For High Strength Low Alloy A588 Steel, Add</i>	58.80	
<i>For Each Additional Top Copes >2, Add</i>	2.21	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-91.88	
<i>For Skewed Or Sloped Connections, Add</i>	35.28	
05 12 23 00-0262 LF W27 x 102 A992/A36 Structural Beam Or Girder	278.84	76.44
<i>For Hot Dip Galvanizing, Add</i>	54.76	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.10	
<i>For High Strength Low Alloy A588 Steel, Add</i>	55.77	
<i>For Each Additional Top Copes >2, Add</i>	1.97	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-85.37	
<i>For Skewed Or Sloped Connections, Add</i>	33.46	
05 12 23 00-0263 LF W27 x 94 A992/A36 Structural Beam Or Girder	266.63	75.94
<i>For Hot Dip Galvanizing, Add</i>	51.51	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.00	
<i>For High Strength Low Alloy A588 Steel, Add</i>	53.33	
<i>For Each Additional Top Copes >2, Add</i>	1.86	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.17	
<i>For Skewed Or Sloped Connections, Add</i>	32.00	
05 12 23 00-0264 LF W27 x 84 A992/A36 Structural Beam Or Girder	251.72	75.43
<i>For Hot Dip Galvanizing, Add</i>	47.55	
<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.65	
<i>For High Strength Low Alloy A588 Steel, Add</i>	50.34	
<i>For Each Additional Top Copes >2, Add</i>	1.71	
<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-76.05	
<i>For Skewed Or Sloped Connections, Add</i>	30.21	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0265	LF		W24 x 162 A992/A36 Structural Beam Or Girder	388.32	82.40
			<i>For Hot Dip Galvanizing, Add</i>	83.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	34.95	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	77.66	
			<i>For Each Additional Top Copes >2, Add</i>	3.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-122.73	
			<i>For Skewed Or Sloped Connections, Add</i>	46.60	
05 12 23 00-0266	LF		W24 x 146 A992/A36 Structural Beam Or Girder	355.03	79.00
			<i>For Hot Dip Galvanizing, Add</i>	75.14	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.95	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	71.01	
			<i>For Each Additional Top Copes >2, Add</i>	2.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-111.62	
			<i>For Skewed Or Sloped Connections, Add</i>	42.60	
05 12 23 00-0267	LF		W24 x 131 A992/A36 Structural Beam Or Girder	323.37	75.41
			<i>For Hot Dip Galvanizing, Add</i>	67.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	64.67	
			<i>For Each Additional Top Copes >2, Add</i>	2.43	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-101.12	
			<i>For Skewed Or Sloped Connections, Add</i>	38.80	
05 12 23 00-0268	LF		W24 x 117 A992/A36 Structural Beam Or Girder	293.40	71.64
			<i>For Hot Dip Galvanizing, Add</i>	60.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.41	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	58.68	
			<i>For Each Additional Top Copes >2, Add</i>	2.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-91.23	
			<i>For Skewed Or Sloped Connections, Add</i>	35.21	
05 12 23 00-0269	LF		W24 x 104 A992/A36 Structural Beam Or Girder	265.13	67.75
			<i>For Hot Dip Galvanizing, Add</i>	53.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.86	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	53.03	
			<i>For Each Additional Top Copes >2, Add</i>	1.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.96	
			<i>For Skewed Or Sloped Connections, Add</i>	31.82	
05 12 23 00-0270	LF		W24 x 94 A992/A36 Structural Beam Or Girder	255.32	75.94
			<i>For Hot Dip Galvanizing, Add</i>	48.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.06	
			<i>For Each Additional Top Copes >2, Add</i>	1.74	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-77.21	
			<i>For Skewed Or Sloped Connections, Add</i>	30.64	
05 12 23 00-0271	LF		W24 x 84 A992/A36 Structural Beam Or Girder	232.92	67.31
			<i>For Hot Dip Galvanizing, Add</i>	44.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	46.58	
			<i>For Each Additional Top Copes >2, Add</i>	1.61	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-70.74	
			<i>For Skewed Or Sloped Connections, Add</i>	27.95	
05 12 23 00-0272	LF		W24 x 76 A992/A36 Structural Beam Or Girder	221.50	66.81
			<i>For Hot Dip Galvanizing, Add</i>	41.66	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.94	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.30	
			<i>For Each Additional Top Copes >2, Add</i>	1.50	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-66.82	
			<i>For Skewed Or Sloped Connections, Add</i>	26.58	
05 12 23 00-0273	LF		W24 x 68 A992/A36 Structural Beam Or Girder	207.12	66.43
			<i>For Hot Dip Galvanizing, Add</i>	37.81	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.64	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.42	
			<i>For Each Additional Top Copes >2, Add</i>	1.36	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-61.86	
			<i>For Skewed Or Sloped Connections, Add</i>	24.85	
05 12 23 00-0274	LF		W24 x 62 A992/A36 Structural Beam Or Girder	199.59	66.04
			<i>For Hot Dip Galvanizing, Add</i>	35.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.92	
			<i>For Each Additional Top Copes >2, Add</i>	1.29	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.28	
			<i>For Skewed Or Sloped Connections, Add</i>	23.95	
05 12 23 00-0275	LF		W24 x 55 A992/A36 Structural Beam Or Girder	189.29	65.79
			<i>For Hot Dip Galvanizing, Add</i>	33.08	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.04	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.86	
			<i>For Each Additional Top Copes >2, Add</i>	1.19	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-55.74	
			<i>For Skewed Or Sloped Connections, Add</i>	22.71	
05 12 23 00-0276	LF		W21 x 147 A992/A36 Structural Beam Or Girder	339.99	67.76
			<i>For Hot Dip Galvanizing, Add</i>	74.29	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	30.60	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	68.00	
			<i>For Each Additional Top Copes >2, Add</i>	2.68	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-108.15	
			<i>For Skewed Or Sloped Connections, Add</i>	40.80	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0277	LF		W21 x 132 A992/A36 Structural Beam Or Girder	309.45	64.74
			For Hot Dip Galvanizing, Add	66.71	
			For High Strength Low Alloy A572-50 Steel, Add	27.85	
			For High Strength Low Alloy A588 Steel, Add	61.89	
			For Each Additional Top Copes >2, Add	2.40	
			For Structural Tees, WT, MT Or ST, Deduct	-97.95	
			For Skewed Or Sloped Connections, Add	37.13	
05 12 23 00-0278	LF		W21 x 122 A992/A36 Structural Beam Or Girder	290.07	63.66
			For Hot Dip Galvanizing, Add	61.65	
			For High Strength Low Alloy A572-50 Steel, Add	26.11	
			For High Strength Low Alloy A588 Steel, Add	58.01	
			For Each Additional Top Copes >2, Add	2.22	
			For Structural Tees, WT, MT Or ST, Deduct	-91.34	
			For Skewed Or Sloped Connections, Add	34.81	
05 12 23 00-0279	LF		W21 x 111 A992/A36 Structural Beam Or Girder	267.87	61.60
			For Hot Dip Galvanizing, Add	56.10	
			For High Strength Low Alloy A572-50 Steel, Add	24.11	
			For High Strength Low Alloy A588 Steel, Add	53.57	
			For Each Additional Top Copes >2, Add	2.02	
			For Structural Tees, WT, MT Or ST, Deduct	-83.90	
			For Skewed Or Sloped Connections, Add	32.14	
05 12 23 00-0280	LF		W21 x 101 A992/A36 Structural Beam Or Girder	247.55	59.64
			For Hot Dip Galvanizing, Add	51.04	
			For High Strength Low Alloy A572-50 Steel, Add	22.28	
			For High Strength Low Alloy A588 Steel, Add	49.51	
			For Each Additional Top Copes >2, Add	1.84	
			For Structural Tees, WT, MT Or ST, Deduct	-77.10	
			For Skewed Or Sloped Connections, Add	29.71	
05 12 23 00-0281	LF		W21 x 93 A992/A36 Structural Beam Or Girder	242.01	68.08
			For Hot Dip Galvanizing, Add	47.00	
			For High Strength Low Alloy A572-50 Steel, Add	21.78	
			For High Strength Low Alloy A588 Steel, Add	48.40	
			For Each Additional Top Copes >2, Add	1.69	
			For Structural Tees, WT, MT Or ST, Deduct	-73.81	
			For Skewed Or Sloped Connections, Add	29.04	
05 12 23 00-0282	LF		W21 x 83 A992/A36 Structural Beam Or Girder	228.55	67.31
			For Hot Dip Galvanizing, Add	43.48	
			For High Strength Low Alloy A572-50 Steel, Add	20.57	
			For High Strength Low Alloy A588 Steel, Add	45.71	
			For Each Additional Top Copes >2, Add	1.57	
			For Structural Tees, WT, MT Or ST, Deduct	-69.21	
			For Skewed Or Sloped Connections, Add	27.43	
05 12 23 00-0283	LF		W21 x 73 A992/A36 Structural Beam Or Girder	212.06	66.81
			For Hot Dip Galvanizing, Add	39.07	
			For High Strength Low Alloy A572-50 Steel, Add	19.09	
			For High Strength Low Alloy A588 Steel, Add	42.41	
			For Each Additional Top Copes >2, Add	1.41	
			For Structural Tees, WT, MT Or ST, Deduct	-63.53	
			For Skewed Or Sloped Connections, Add	25.45	
05 12 23 00-0284	LF		W21 x 68 A992/A36 Structural Beam Or Girder	203.75	66.43
			For Hot Dip Galvanizing, Add	36.87	
			For High Strength Low Alloy A572-50 Steel, Add	18.34	
			For High Strength Low Alloy A588 Steel, Add	40.75	
			For Each Additional Top Copes >2, Add	1.33	
			For Structural Tees, WT, MT Or ST, Deduct	-60.68	
			For Skewed Or Sloped Connections, Add	24.45	
05 12 23 00-0285	LF		W21 x 62 A992/A36 Structural Beam Or Girder	196.22	66.04
			For Hot Dip Galvanizing, Add	34.89	
			For High Strength Low Alloy A572-50 Steel, Add	17.66	
			For High Strength Low Alloy A588 Steel, Add	39.24	
			For Each Additional Top Copes >2, Add	1.26	
			For Structural Tees, WT, MT Or ST, Deduct	-58.11	
			For Skewed Or Sloped Connections, Add	23.55	
05 12 23 00-0286	LF		W21 x 57 A992/A36 Structural Beam Or Girder	189.42	65.92
			For Hot Dip Galvanizing, Add	33.08	
			For High Strength Low Alloy A572-50 Steel, Add	17.05	
			For High Strength Low Alloy A588 Steel, Add	37.88	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-55.76	
			For Skewed Or Sloped Connections, Add	22.73	
05 12 23 00-0287	LF		W21 x 50 A992/A36 Structural Beam Or Girder	167.99	57.18
			For Hot Dip Galvanizing, Add	29.66	
			For High Strength Low Alloy A572-50 Steel, Add	15.12	
			For High Strength Low Alloy A588 Steel, Add	33.60	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-49.63	
			For Skewed Or Sloped Connections, Add	20.16	
05 12 23 00-0288	LF		W21 x 44 A992/A36 Structural Beam Or Girder	160.08	56.92
			For Hot Dip Galvanizing, Add	27.57	
			For High Strength Low Alloy A572-50 Steel, Add	14.41	
			For High Strength Low Alloy A588 Steel, Add	32.02	
			For Each Additional Top Copes >2, Add	0.99	
			For Structural Tees, WT, MT Or ST, Deduct	-46.92	
			For Skewed Or Sloped Connections, Add	19.21	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0289	LF		W18 x 119 A992/A36 Structural Beam Or Girder	282.01	63.43
			<i>For Hot Dip Galvanizing, Add</i>	59.48	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.38	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	56.40	
			<i>For Each Additional Top Copes >2, Add</i>	2.14	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-88.55	
			<i>For Skewed Or Sloped Connections, Add</i>	33.84	
05 12 23 00-0290	LF		W18 x 106 A992/A36 Structural Beam Or Girder	255.05	60.12
			<i>For Hot Dip Galvanizing, Add</i>	52.98	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.95	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.01	
			<i>For Each Additional Top Copes >2, Add</i>	1.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.65	
			<i>For Skewed Or Sloped Connections, Add</i>	30.61	
05 12 23 00-0291	LF		W18 x 97 A992/A36 Structural Beam Or Girder	247.49	68.08
			<i>For Hot Dip Galvanizing, Add</i>	48.48	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.27	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	49.50	
			<i>For Each Additional Top Copes >2, Add</i>	1.75	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-75.71	
			<i>For Skewed Or Sloped Connections, Add</i>	29.70	
05 12 23 00-0292	LF		W18 x 86 A992/A36 Structural Beam Or Girder	232.05	67.45
			<i>For Hot Dip Galvanizing, Add</i>	44.41	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.88	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	46.41	
			<i>For Each Additional Top Copes >2, Add</i>	1.60	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-70.42	
			<i>For Skewed Or Sloped Connections, Add</i>	27.85	
05 12 23 00-0293	LF		W18 x 76 A992/A36 Structural Beam Or Girder	218.13	66.81
			<i>For Hot Dip Galvanizing, Add</i>	40.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.63	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	43.63	
			<i>For Each Additional Top Copes >2, Add</i>	1.47	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-65.64	
			<i>For Skewed Or Sloped Connections, Add</i>	26.18	
05 12 23 00-0294	LF		W18 x 71 A992/A36 Structural Beam Or Girder	207.96	66.68
			<i>For Hot Dip Galvanizing, Add</i>	37.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.72	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.59	
			<i>For Each Additional Top Copes >2, Add</i>	1.37	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.12	
			<i>For Skewed Or Sloped Connections, Add</i>	24.96	
05 12 23 00-0295	LF		W18 x 65 A992/A36 Structural Beam Or Girder	198.06	66.43
			<i>For Hot Dip Galvanizing, Add</i>	35.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.83	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.61	
			<i>For Each Additional Top Copes >2, Add</i>	1.27	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-58.71	
			<i>For Skewed Or Sloped Connections, Add</i>	23.77	
05 12 23 00-0296	LF		W18 x 60 A992/A36 Structural Beam Or Girder	189.14	65.92
			<i>For Hot Dip Galvanizing, Add</i>	32.96	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.83	
			<i>For Each Additional Top Copes >2, Add</i>	1.19	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-55.65	
			<i>For Skewed Or Sloped Connections, Add</i>	22.70	
05 12 23 00-0297	LF		W18 x 55 A992/A36 Structural Beam Or Girder	180.17	65.79
			<i>For Hot Dip Galvanizing, Add</i>	30.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.22	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	36.03	
			<i>For Each Additional Top Copes >2, Add</i>	1.10	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-52.54	
			<i>For Skewed Or Sloped Connections, Add</i>	21.62	
05 12 23 00-0298	LF		W18 x 50 A992/A36 Structural Beam Or Girder	162.44	57.18
			<i>For Hot Dip Galvanizing, Add</i>	28.12	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.62	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.49	
			<i>For Each Additional Top Copes >2, Add</i>	1.01	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.69	
			<i>For Skewed Or Sloped Connections, Add</i>	19.49	
05 12 23 00-0299	LF		W18 x 46 A992/A36 Structural Beam Or Girder	155.45	57.04
			<i>For Hot Dip Galvanizing, Add</i>	26.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.99	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.09	
			<i>For Each Additional Top Copes >2, Add</i>	0.95	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.28	
			<i>For Skewed Or Sloped Connections, Add</i>	18.65	
05 12 23 00-0300	LF		W18 x 40 A992/A36 Structural Beam Or Girder	136.06	48.68
			<i>For Hot Dip Galvanizing, Add</i>	23.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.25	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.21	
			<i>For Each Additional Top Copes >2, Add</i>	0.84	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.83	
			<i>For Skewed Or Sloped Connections, Add</i>	16.33	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0301	LF			W18 x 35 A992/A36 Structural Beam Or Girder	127.28	48.55
				<i>For Hot Dip Galvanizing, Add</i>	20.97	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.46	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	25.46	
				<i>For Each Additional Top Copes >2, Add</i>	0.76	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.79	
				<i>For Skewed Or Sloped Connections, Add</i>	15.27	
05 12 23 00-0302	LF			W16 x 100 A992/A36 Structural Beam Or Girder	234.97	44.24
				<i>For Hot Dip Galvanizing, Add</i>	52.12	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.15	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	46.99	
				<i>For Each Additional Top Copes >2, Add</i>	1.88	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-75.17	
				<i>For Skewed Or Sloped Connections, Add</i>	28.20	
05 12 23 00-0303	LF			W16 x 89 A992/A36 Structural Beam Or Girder	215.17	43.48
				<i>For Hot Dip Galvanizing, Add</i>	46.83	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.37	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	43.03	
				<i>For Each Additional Top Copes >2, Add</i>	1.69	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-68.35	
				<i>For Skewed Or Sloped Connections, Add</i>	25.82	
05 12 23 00-0304	LF			W16 x 77 A992/A36 Structural Beam Or Girder	193.92	42.97
				<i>For Hot Dip Galvanizing, Add</i>	41.11	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.45	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	38.78	
				<i>For Each Additional Top Copes >2, Add</i>	1.48	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-61.01	
				<i>For Skewed Or Sloped Connections, Add</i>	23.27	
05 12 23 00-0305	LF			W16 x 67 A992/A36 Structural Beam Or Girder	175.82	42.34
				<i>For Hot Dip Galvanizing, Add</i>	36.27	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.82	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	35.16	
				<i>For Each Additional Top Copes >2, Add</i>	1.31	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-54.77	
				<i>For Skewed Or Sloped Connections, Add</i>	21.10	
05 12 23 00-0306	LF			W16 x 57 A992/A36 Structural Beam Or Girder	157.94	41.70
				<i>For Hot Dip Galvanizing, Add</i>	31.48	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.21	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	31.59	
				<i>For Each Additional Top Copes >2, Add</i>	1.13	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-48.60	
				<i>For Skewed Or Sloped Connections, Add</i>	18.95	
05 12 23 00-0307	LF			W16 x 50 A992/A36 Structural Beam Or Girder	145.45	41.33
				<i>For Hot Dip Galvanizing, Add</i>	28.12	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.09	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	29.09	
				<i>For Each Additional Top Copes >2, Add</i>	1.01	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.29	
				<i>For Skewed Or Sloped Connections, Add</i>	17.45	
05 12 23 00-0308	LF			W16 x 45 A992/A36 Structural Beam Or Girder	136.67	41.07
				<i>For Hot Dip Galvanizing, Add</i>	25.75	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.30	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	27.33	
				<i>For Each Additional Top Copes >2, Add</i>	0.93	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.26	
				<i>For Skewed Or Sloped Connections, Add</i>	16.40	
05 12 23 00-0309	LF			W16 x 40 A992/A36 Structural Beam Or Girder	127.57	40.70
				<i>For Hot Dip Galvanizing, Add</i>	23.33	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.48	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	25.51	
				<i>For Each Additional Top Copes >2, Add</i>	0.84	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.13	
				<i>For Skewed Or Sloped Connections, Add</i>	15.31	
05 12 23 00-0310	LF			W16 x 36 A992/A36 Structural Beam Or Girder	120.45	40.44
				<i>For Hot Dip Galvanizing, Add</i>	21.46	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.84	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	24.09	
				<i>For Each Additional Top Copes >2, Add</i>	0.77	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.69	
				<i>For Skewed Or Sloped Connections, Add</i>	14.45	
05 12 23 00-0311	LF			W16 x 31 A992/A36 Structural Beam Or Girder	102.98	32.20
				<i>For Hot Dip Galvanizing, Add</i>	19.04	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.27	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	20.60	
				<i>For Each Additional Top Copes >2, Add</i>	0.69	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-30.89	
				<i>For Skewed Or Sloped Connections, Add</i>	12.36	
05 12 23 00-0312	LF			W16 x 26 A992/A36 Structural Beam Or Girder	91.50	31.82
				<i>For Hot Dip Galvanizing, Add</i>	15.96	
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.24	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	18.30	
				<i>For Each Additional Top Copes >2, Add</i>	0.58	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.93	
				<i>For Skewed Or Sloped Connections, Add</i>	10.98	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0313	LF		W14 x 99 A992/A36 Structural Beam Or Girder	224.69	36.26
			For Hot Dip Galvanizing, Add	51.62	
			For High Strength Low Alloy A572-50 Steel, Add	20.22	
			For High Strength Low Alloy A588 Steel, Add	44.94	
			For Each Additional Top Copes >2, Add	1.86	
			For Structural Tees, WT, MT Or ST, Deduct	-72.84	
			For Skewed Or Sloped Connections, Add	26.96	
05 12 23 00-0314	LF		W14 x 90 A992/A36 Structural Beam Or Girder	208.58	35.62
			For Hot Dip Galvanizing, Add	47.33	
			For High Strength Low Alloy A572-50 Steel, Add	18.77	
			For High Strength Low Alloy A588 Steel, Add	41.72	
			For Each Additional Top Copes >2, Add	1.71	
			For Structural Tees, WT, MT Or ST, Deduct	-67.30	
			For Skewed Or Sloped Connections, Add	25.03	
05 12 23 00-0315	LF		W14 x 82 A992/A36 Structural Beam Or Girder	194.20	35.24
			For Hot Dip Galvanizing, Add	43.48	
			For High Strength Low Alloy A572-50 Steel, Add	17.48	
			For High Strength Low Alloy A588 Steel, Add	38.84	
			For Each Additional Top Copes >2, Add	1.57	
			For Structural Tees, WT, MT Or ST, Deduct	-62.34	
			For Skewed Or Sloped Connections, Add	23.30	
05 12 23 00-0316	LF		W14 x 74 A992/A36 Structural Beam Or Girder	179.82	34.73
			For Hot Dip Galvanizing, Add	39.62	
			For High Strength Low Alloy A572-50 Steel, Add	16.18	
			For High Strength Low Alloy A588 Steel, Add	35.96	
			For Each Additional Top Copes >2, Add	1.43	
			For Structural Tees, WT, MT Or ST, Deduct	-57.38	
			For Skewed Or Sloped Connections, Add	21.58	
05 12 23 00-0317	LF		W14 x 68 A992/A36 Structural Beam Or Girder	169.11	34.36
			For Hot Dip Galvanizing, Add	36.76	
			For High Strength Low Alloy A572-50 Steel, Add	15.22	
			For High Strength Low Alloy A588 Steel, Add	33.82	
			For Each Additional Top Copes >2, Add	1.32	
			For Structural Tees, WT, MT Or ST, Deduct	-53.69	
			For Skewed Or Sloped Connections, Add	20.29	
05 12 23 00-0318	LF		W14 x 61 A992/A36 Structural Beam Or Girder	156.64	33.97
			For Hot Dip Galvanizing, Add	33.41	
			For High Strength Low Alloy A572-50 Steel, Add	14.10	
			For High Strength Low Alloy A588 Steel, Add	31.33	
			For Each Additional Top Copes >2, Add	1.20	
			For Structural Tees, WT, MT Or ST, Deduct	-49.39	
			For Skewed Or Sloped Connections, Add	18.80	
05 12 23 00-0319	LF		W14 x 53 A992/A36 Structural Beam Or Girder	142.45	33.46
			For Hot Dip Galvanizing, Add	29.61	
			For High Strength Low Alloy A572-50 Steel, Add	12.82	
			For High Strength Low Alloy A588 Steel, Add	28.49	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-44.50	
			For Skewed Or Sloped Connections, Add	17.09	
05 12 23 00-0320	LF		W14 x 48 A992/A36 Structural Beam Or Girder	133.33	33.09
			For Hot Dip Galvanizing, Add	27.19	
			For High Strength Low Alloy A572-50 Steel, Add	12.00	
			For High Strength Low Alloy A588 Steel, Add	26.67	
			For Each Additional Top Copes >2, Add	0.98	
			For Structural Tees, WT, MT Or ST, Deduct	-41.36	
			For Skewed Or Sloped Connections, Add	16.00	
05 12 23 00-0321	LF		W14 x 43 A992/A36 Structural Beam Or Girder	124.36	32.96
			For Hot Dip Galvanizing, Add	24.76	
			For High Strength Low Alloy A572-50 Steel, Add	11.19	
			For High Strength Low Alloy A588 Steel, Add	24.87	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-38.26	
			For Skewed Or Sloped Connections, Add	14.92	
05 12 23 00-0322	LF		W14 x 38 A992/A36 Structural Beam Or Girder	115.45	32.70
			For Hot Dip Galvanizing, Add	22.40	
			For High Strength Low Alloy A572-50 Steel, Add	10.39	
			For High Strength Low Alloy A588 Steel, Add	23.09	
			For Each Additional Top Copes >2, Add	0.81	
			For Structural Tees, WT, MT Or ST, Deduct	-35.20	
			For Skewed Or Sloped Connections, Add	13.85	
05 12 23 00-0323	LF		W14 x 34 A992/A36 Structural Beam Or Girder	108.26	32.33
			For Hot Dip Galvanizing, Add	20.47	
			For High Strength Low Alloy A572-50 Steel, Add	9.74	
			For High Strength Low Alloy A588 Steel, Add	21.65	
			For Each Additional Top Copes >2, Add	0.74	
			For Structural Tees, WT, MT Or ST, Deduct	-32.72	
			For Skewed Or Sloped Connections, Add	12.99	
05 12 23 00-0324	LF		W14 x 30 A992/A36 Structural Beam Or Girder	101.06	32.20
			For Hot Dip Galvanizing, Add	18.55	
			For High Strength Low Alloy A572-50 Steel, Add	9.10	
			For High Strength Low Alloy A588 Steel, Add	20.21	
			For Each Additional Top Copes >2, Add	0.67	
			For Structural Tees, WT, MT Or ST, Deduct	-30.24	
			For Skewed Or Sloped Connections, Add	12.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0325	LF		W14 x 26 A992/A36 Structural Beam Or Girder	93.86	31.82
			<i>For Hot Dip Galvanizing, Add</i>	16.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.45	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.77	
			<i>For Each Additional Top Copes >2, Add</i>	0.60	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-27.76	
			<i>For Skewed Or Sloped Connections, Add</i>	11.26	
05 12 23 00-0326	LF		W14 x 22 A992/A36 Structural Beam Or Girder	86.87	31.70
			<i>For Hot Dip Galvanizing, Add</i>	14.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.37	
			<i>For Each Additional Top Copes >2, Add</i>	0.53	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-25.35	
			<i>For Skewed Or Sloped Connections, Add</i>	10.42	
05 12 23 00-0327	LF		W12 x 87 A992/A36 Structural Beam Or Girder	203.30	35.50
			<i>For Hot Dip Galvanizing, Add</i>	45.90	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.30	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.66	
			<i>For Each Additional Top Copes >2, Add</i>	1.65	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-65.47	
			<i>For Skewed Or Sloped Connections, Add</i>	24.40	
05 12 23 00-0328	LF		W12 x 79 A992/A36 Structural Beam Or Girder	188.92	34.99
			<i>For Hot Dip Galvanizing, Add</i>	42.05	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.00	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.78	
			<i>For Each Additional Top Copes >2, Add</i>	1.52	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-60.51	
			<i>For Skewed Or Sloped Connections, Add</i>	22.67	
05 12 23 00-0329	LF		W12 x 72 A992/A36 Structural Beam Or Girder	176.31	34.61
			<i>For Hot Dip Galvanizing, Add</i>	38.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.87	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	35.26	
			<i>For Each Additional Top Copes >2, Add</i>	1.39	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-56.18	
			<i>For Skewed Or Sloped Connections, Add</i>	21.16	
05 12 23 00-0330	LF		W12 x 65 A992/A36 Structural Beam Or Girder	163.83	34.23
			<i>For Hot Dip Galvanizing, Add</i>	35.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.74	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.77	
			<i>For Each Additional Top Copes >2, Add</i>	1.27	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-51.86	
			<i>For Skewed Or Sloped Connections, Add</i>	19.66	
05 12 23 00-0331	LF		W12 x 58 A992/A36 Structural Beam Or Girder	151.22	33.72
			<i>For Hot Dip Galvanizing, Add</i>	31.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.61	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.24	
			<i>For Each Additional Top Copes >2, Add</i>	1.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.53	
			<i>For Skewed Or Sloped Connections, Add</i>	18.15	
05 12 23 00-0332	LF		W12 x 53 A992/A36 Structural Beam Or Girder	142.45	33.46
			<i>For Hot Dip Galvanizing, Add</i>	29.61	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.49	
			<i>For Each Additional Top Copes >2, Add</i>	1.07	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.50	
			<i>For Skewed Or Sloped Connections, Add</i>	17.09	
05 12 23 00-0333	LF		W12 x 50 A992/A36 Structural Beam Or Girder	136.84	33.34
			<i>For Hot Dip Galvanizing, Add</i>	28.12	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.32	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.37	
			<i>For Each Additional Top Copes >2, Add</i>	1.01	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-42.57	
			<i>For Skewed Or Sloped Connections, Add</i>	16.42	
05 12 23 00-0334	LF		W12 x 45 A992/A36 Structural Beam Or Girder	128.05	33.09
			<i>For Hot Dip Galvanizing, Add</i>	25.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.52	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.61	
			<i>For Each Additional Top Copes >2, Add</i>	0.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.53	
			<i>For Skewed Or Sloped Connections, Add</i>	15.37	
05 12 23 00-0335	LF		W12 x 40 A992/A36 Structural Beam Or Girder	110.33	24.60
			<i>For Hot Dip Galvanizing, Add</i>	23.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.93	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.07	
			<i>For Each Additional Top Copes >2, Add</i>	0.84	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.68	
			<i>For Skewed Or Sloped Connections, Add</i>	13.24	
05 12 23 00-0336	LF		W12 x 35 A992/A36 Structural Beam Or Girder	101.55	24.46
			<i>For Hot Dip Galvanizing, Add</i>	20.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.14	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.31	
			<i>For Each Additional Top Copes >2, Add</i>	0.76	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-31.64	
			<i>For Skewed Or Sloped Connections, Add</i>	12.19	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0337	LF		W12 x 30 A992/A36 Structural Beam Or Girder	92.44	24.09
			<i>For Hot Dip Galvanizing, Add</i>	18.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.32	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.49	
			<i>For Each Additional Top Copes >2, Add</i>	0.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-28.51	
			<i>For Skewed Or Sloped Connections, Add</i>	11.09	
05 12 23 00-0338	LF		W12 x 26 A992/A36 Structural Beam Or Girder	85.25	23.83
			<i>For Hot Dip Galvanizing, Add</i>	16.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.05	
			<i>For Each Additional Top Copes >2, Add</i>	0.60	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.03	
			<i>For Skewed Or Sloped Connections, Add</i>	10.23	
05 12 23 00-0339	LF		W12 x 22 A992/A36 Structural Beam Or Girder	78.25	23.58
			<i>For Hot Dip Galvanizing, Add</i>	14.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.04	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	15.65	
			<i>For Each Additional Top Copes >2, Add</i>	0.53	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-23.62	
			<i>For Skewed Or Sloped Connections, Add</i>	9.39	
05 12 23 00-0340	LF		W12 x 19 A992/A36 Structural Beam Or Girder	72.77	23.46
			<i>For Hot Dip Galvanizing, Add</i>	13.26	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.55	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	14.55	
			<i>For Each Additional Top Copes >2, Add</i>	0.48	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-21.72	
			<i>For Skewed Or Sloped Connections, Add</i>	8.73	
05 12 23 00-0341	LF		W12 x 16 A992/A36 Structural Beam Or Girder	67.36	23.07
			<i>For Hot Dip Galvanizing, Add</i>	11.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.06	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	13.47	
			<i>For Each Additional Top Copes >2, Add</i>	0.43	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-19.87	
			<i>For Skewed Or Sloped Connections, Add</i>	8.08	
05 12 23 00-0342	LF		W12 x 14 A992/A36 Structural Beam Or Girder	63.87	23.07
			<i>For Hot Dip Galvanizing, Add</i>	10.90	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.75	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	12.77	
			<i>For Each Additional Top Copes >2, Add</i>	0.39	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-18.66	
			<i>For Skewed Or Sloped Connections, Add</i>	7.66	
05 12 23 00-0343	LF		W10 x 68 A992/A36 Structural Beam Or Girder	161.02	26.49
			<i>For Hot Dip Galvanizing, Add</i>	36.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.49	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.20	
			<i>For Each Additional Top Copes >2, Add</i>	1.33	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-52.14	
			<i>For Skewed Or Sloped Connections, Add</i>	19.32	
05 12 23 00-0344	LF		W10 x 60 A992/A36 Structural Beam Or Girder	146.82	25.99
			<i>For Hot Dip Galvanizing, Add</i>	33.08	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.21	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.36	
			<i>For Each Additional Top Copes >2, Add</i>	1.19	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.24	
			<i>For Skewed Or Sloped Connections, Add</i>	17.62	
05 12 23 00-0345	LF		W10 x 54 A992/A36 Structural Beam Or Girder	135.94	25.48
			<i>For Hot Dip Galvanizing, Add</i>	30.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.19	
			<i>For Each Additional Top Copes >2, Add</i>	1.09	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.49	
			<i>For Skewed Or Sloped Connections, Add</i>	16.31	
05 12 23 00-0346	LF		W10 x 49 A992/A36 Structural Beam Or Girder	127.02	25.23
			<i>For Hot Dip Galvanizing, Add</i>	27.79	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.43	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.40	
			<i>For Each Additional Top Copes >2, Add</i>	1.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.43	
			<i>For Skewed Or Sloped Connections, Add</i>	15.24	
05 12 23 00-0347	LF		W10 x 45 A992/A36 Structural Beam Or Girder	119.83	25.10
			<i>For Hot Dip Galvanizing, Add</i>	25.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.78	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.97	
			<i>For Each Additional Top Copes >2, Add</i>	0.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-37.95	
			<i>For Skewed Or Sloped Connections, Add</i>	14.38	
05 12 23 00-0348	LF		W10 x 39 A992/A36 Structural Beam Or Girder	109.14	24.60
			<i>For Hot Dip Galvanizing, Add</i>	23.00	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.83	
			<i>For Each Additional Top Copes >2, Add</i>	0.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.26	
			<i>For Skewed Or Sloped Connections, Add</i>	13.10	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0349 LF W10 x 33 A992/A36 Structural Beam Or Girder	98.45	24.21
For Hot Dip Galvanizing, Add	20.14	
For High Strength Low Alloy A572-50 Steel, Add	8.86	
For High Strength Low Alloy A588 Steel, Add	19.69	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-30.58	
For Skewed Or Sloped Connections, Add	11.81	
05 12 23 00-0350 LF W10 x 30 A992/A36 Structural Beam Or Girder	92.96	24.09
For Hot Dip Galvanizing, Add	18.66	
For High Strength Low Alloy A572-50 Steel, Add	8.37	
For High Strength Low Alloy A588 Steel, Add	18.59	
For Each Additional Top Copes >2, Add	0.67	
For Structural Tees, WT, MT Or ST, Deduct	-28.68	
For Skewed Or Sloped Connections, Add	11.16	
05 12 23 00-0351 LF W10 x 26 A992/A36 Structural Beam Or Girder	85.97	23.96
For Hot Dip Galvanizing, Add	16.79	
For High Strength Low Alloy A572-50 Steel, Add	7.74	
For High Strength Low Alloy A588 Steel, Add	17.19	
For Each Additional Top Copes >2, Add	0.60	
For Structural Tees, WT, MT Or ST, Deduct	-26.27	
For Skewed Or Sloped Connections, Add	10.32	
05 12 23 00-0352 LF W10 x 22 A992/A36 Structural Beam Or Girder	78.65	23.58
For Hot Dip Galvanizing, Add	14.86	
For High Strength Low Alloy A572-50 Steel, Add	7.08	
For High Strength Low Alloy A588 Steel, Add	15.73	
For Each Additional Top Copes >2, Add	0.54	
For Structural Tees, WT, MT Or ST, Deduct	-23.76	
For Skewed Or Sloped Connections, Add	9.44	
05 12 23 00-0353 LF W10 x 19 A992/A36 Structural Beam Or Girder	73.36	23.46
For Hot Dip Galvanizing, Add	13.43	
For High Strength Low Alloy A572-50 Steel, Add	6.60	
For High Strength Low Alloy A588 Steel, Add	14.67	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-21.93	
For Skewed Or Sloped Connections, Add	8.80	
05 12 23 00-0354 LF W10 x 17 A992/A36 Structural Beam Or Girder	69.67	23.33
For Hot Dip Galvanizing, Add	12.44	
For High Strength Low Alloy A572-50 Steel, Add	6.27	
For High Strength Low Alloy A588 Steel, Add	13.93	
For Each Additional Top Copes >2, Add	0.45	
For Structural Tees, WT, MT Or ST, Deduct	-20.66	
For Skewed Or Sloped Connections, Add	8.36	
05 12 23 00-0355 LF W10 x 15 A992/A36 Structural Beam Or Girder	66.17	23.07
For Hot Dip Galvanizing, Add	11.50	
For High Strength Low Alloy A572-50 Steel, Add	5.96	
For High Strength Low Alloy A588 Steel, Add	13.23	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.45	
For Skewed Or Sloped Connections, Add	7.94	
05 12 23 00-0356 LF W10 x 12 A992/A36 Structural Beam Or Girder	60.89	23.07
For Hot Dip Galvanizing, Add	10.07	
For High Strength Low Alloy A572-50 Steel, Add	5.48	
For High Strength Low Alloy A588 Steel, Add	12.18	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-17.62	
For Skewed Or Sloped Connections, Add	7.31	
05 12 23 00-0357 LF W8 x 35 A992/A36 Structural Beam Or Girder	101.95	24.46
For Hot Dip Galvanizing, Add	21.08	
For High Strength Low Alloy A572-50 Steel, Add	9.18	
For High Strength Low Alloy A588 Steel, Add	20.39	
For Each Additional Top Copes >2, Add	0.76	
For Structural Tees, WT, MT Or ST, Deduct	-31.78	
For Skewed Or Sloped Connections, Add	12.23	
05 12 23 00-0358 LF W8 x 31 A992/A36 Structural Beam Or Girder	94.75	24.09
For Hot Dip Galvanizing, Add	19.15	
For High Strength Low Alloy A572-50 Steel, Add	8.53	
For High Strength Low Alloy A588 Steel, Add	18.95	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-29.30	
For Skewed Or Sloped Connections, Add	11.37	
05 12 23 00-0359 LF W8 x 28 A992/A36 Structural Beam Or Girder	100.51	22.70
For Hot Dip Galvanizing, Add	21.17	
For High Strength Low Alloy A572-50 Steel, Add	9.05	
For High Strength Low Alloy A588 Steel, Add	20.10	
For Each Additional Top Copes >2, Add	0.76	
For Structural Tees, WT, MT Or ST, Deduct	-31.55	
For Skewed Or Sloped Connections, Add	12.06	
05 12 23 00-0360 LF W8 x 24 A992/A36 Structural Beam Or Girder	91.45	21.29
For Hot Dip Galvanizing, Add	19.08	
For High Strength Low Alloy A572-50 Steel, Add	8.23	
For High Strength Low Alloy A588 Steel, Add	18.29	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-28.60	
For Skewed Or Sloped Connections, Add	10.97	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0361	LF	W8 x 21 A992/A36	Structural Beam Or Girder	85.07	19.78
			<i>For Hot Dip Galvanizing, Add</i>	17.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.66	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.01	
			<i>For Each Additional Top Copes >2, Add</i>	0.64	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.60	
			<i>For Skewed Or Sloped Connections, Add</i>	10.21	
05 12 23 00-0362	LF	W8 x 18 A992/A36	Structural Beam Or Girder	74.06	18.38
			<i>For Hot Dip Galvanizing, Add</i>	15.10	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	14.81	
			<i>For Each Additional Top Copes >2, Add</i>	0.54	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-22.97	
			<i>For Skewed Or Sloped Connections, Add</i>	8.89	
05 12 23 00-0363	LF	W8 x 10 A992/A36	Structural Beam Or Girder	38.26	13.19
			<i>For Hot Dip Galvanizing, Add</i>	6.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.44	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	7.65	
			<i>For Each Additional Top Copes >2, Add</i>	0.24	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-11.30	
			<i>For Skewed Or Sloped Connections, Add</i>	4.59	
05 12 23 00-0364	LF	W6 x 9 A992/A36	Structural Beam Or Girder	35.41	10.78
			<i>For Hot Dip Galvanizing, Add</i>	6.66	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.19	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	7.08	
			<i>For Each Additional Top Copes >2, Add</i>	0.24	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-10.68	
			<i>For Skewed Or Sloped Connections, Add</i>	4.25	
05 12 23 00-0365		A992/A36 Structural Steel, M Shapes	<small>(05 12 23 00-0147)</small>		
			Note: Includes material delivery and erection.		
05 12 23 00-0366	LF	M14 x 18 A992/A36	Structural Steel	67.76	16.72
			<i>For Hot Dip Galvanizing, Add</i>	13.86	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.10	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	13.55	
05 12 23 00-0367	LF	M12 x 11.8 A992/A36	Structural Steel	48.49	14.78
			<i>For Hot Dip Galvanizing, Add</i>	9.09	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.36	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.70	
05 12 23 00-0368	LF	M10 x 9 A992/A36	Structural Steel	37.62	11.86
			<i>For Hot Dip Galvanizing, Add</i>	6.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.39	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	7.52	
05 12 23 00-0369	LF	M8 x 6.5 A992/A36	Structural Steel	27.17	8.57
			<i>For Hot Dip Galvanizing, Add</i>	5.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.45	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	5.43	
05 12 23 00-0370	LF	M6 x 20 A992/A36	Structural Steel	77.04	20.41
			<i>For Hot Dip Galvanizing, Add</i>	15.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.93	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.41	
05 12 23 00-0371	LF	M6 x 4.4 A992/A36	Structural Steel	18.38	5.79
			<i>For Hot Dip Galvanizing, Add</i>	3.38	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	1.65	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	3.68	
05 12 23 00-0372	LF	M5 x 18.9 A992/A36	Structural Steel	74.15	20.41
			<i>For Hot Dip Galvanizing, Add</i>	14.53	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.67	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.83	
05 12 23 00-0373	LF	M4 x 13 A992/A36	Structural Steel	60.76	20.03
			<i>For Hot Dip Galvanizing, Add</i>	10.95	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.47	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	12.15	
05 12 23 00-0374		A992/A36 Structural Steel, S Shapes	<small>(05 12 23 00-0147)</small>		
			Note: Includes material delivery and erection.		
05 12 23 00-0375	LF	S24 x 121 A992/A36	Structural Steel	408.26	84.65
			<i>For Hot Dip Galvanizing, Add</i>	88.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.74	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.65	
05 12 23 00-0376	LF	S24 x 106 A992/A36	Structural Steel	361.81	78.07
			<i>For Hot Dip Galvanizing, Add</i>	77.31	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	32.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.36	
05 12 23 00-0377	LF	S24 x 100 A992/A36	Structural Steel	345.47	77.52
			<i>For Hot Dip Galvanizing, Add</i>	72.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.09	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	69.09	
05 12 23 00-0378	LF	S24 x 90 A992/A36	Structural Steel	314.84	73.43
			<i>For Hot Dip Galvanizing, Add</i>	65.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.34	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	62.97	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0379	LF	S24 x 80 A992/A36 Structural Steel	.....	283.51	68.72
		<i>For Hot Dip Galvanizing, Add</i>		58.35	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		25.52	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		56.70	
05 12 23 00-0380	LF	S20 x 96 A992/A36 Structural Steel	.....	331.65	74.41
		<i>For Hot Dip Galvanizing, Add</i>		70.02	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		29.85	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		66.33	
05 12 23 00-0381	LF	S20 x 86 A992/A36 Structural Steel	.....	300.84	70.18
		<i>For Hot Dip Galvanizing, Add</i>		62.72	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		27.08	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		60.17	
05 12 23 00-0382	LF	S20 x 75 A992/A36 Structural Steel	.....	265.78	64.42
		<i>For Hot Dip Galvanizing, Add</i>		54.70	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		23.92	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		53.16	
05 12 23 00-0383	LF	S20 x 66 A992/A36 Structural Steel	.....	237.08	59.67
		<i>For Hot Dip Galvanizing, Add</i>		48.14	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		21.34	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		47.42	
05 12 23 00-0384	LF	S18 x 70 A992/A36 Structural Steel	.....	251.45	63.29
		<i>For Hot Dip Galvanizing, Add</i>		51.05	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		22.63	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		50.29	
05 12 23 00-0385	LF	S18 x 54.7 A992/A36 Structural Steel	.....	199.27	52.06
		<i>For Hot Dip Galvanizing, Add</i>		39.89	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		17.93	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		39.85	
05 12 23 00-0386	LF	S15 x 50 A992/A36 Structural Steel	.....	184.82	50.10
		<i>For Hot Dip Galvanizing, Add</i>		36.47	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		16.63	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		36.96	
05 12 23 00-0387	LF	S15 x 42.9 A992/A36 Structural Steel	.....	160.98	45.24
		<i>For Hot Dip Galvanizing, Add</i>		31.29	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		14.49	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		32.20	
05 12 23 00-0388	LF	S12 x 50 A992/A36 Structural Steel	.....	182.14	47.59
		<i>For Hot Dip Galvanizing, Add</i>		36.47	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		16.39	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		36.43	
05 12 23 00-0389	LF	S12 x 40.8 A992/A36 Structural Steel	.....	150.80	40.88
		<i>For Hot Dip Galvanizing, Add</i>		29.76	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		13.57	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		30.16	
05 12 23 00-0390	LF	S12 x 35 A992/A36 Structural Steel	.....	131.34	36.91
		<i>For Hot Dip Galvanizing, Add</i>		25.53	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		11.82	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		26.27	
05 12 23 00-0391	LF	S12 x 31.8 A992/A36 Structural Steel	.....	121.22	35.30
		<i>For Hot Dip Galvanizing, Add</i>		23.19	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		10.91	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		24.24	
05 12 23 00-0392	LF	S10 x 35 A992/A36 Structural Steel	.....	133.41	38.86
		<i>For Hot Dip Galvanizing, Add</i>		25.53	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		12.01	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		26.68	
05 12 23 00-0393	LF	S10 x 25.4 A992/A36 Structural Steel	.....	98.41	29.68
		<i>For Hot Dip Galvanizing, Add</i>		18.53	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		8.86	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		19.68	
05 12 23 00-0394	LF	S8 x 23 A992/A36 Structural Steel	.....	89.11	26.87
		<i>For Hot Dip Galvanizing, Add</i>		16.77	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		8.02	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		17.82	
05 12 23 00-0395	LF	S8 x 18.4 A992/A36 Structural Steel	.....	72.49	22.63
		<i>For Hot Dip Galvanizing, Add</i>		13.42	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.52	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		14.50	
05 12 23 00-0396	LF	S7 x 20 A992/A36 Structural Steel	.....	78.79	24.60
		<i>For Hot Dip Galvanizing, Add</i>		14.59	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		7.09	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		15.76	
05 12 23 00-0397	LF	S7 x 15.3 A992/A36 Structural Steel	.....	61.33	19.81
		<i>For Hot Dip Galvanizing, Add</i>		11.16	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		5.52	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		12.27	
05 12 23 00-0398	LF	S6 x 17.25 A992/A36 Structural Steel	.....	68.17	21.40
		<i>For Hot Dip Galvanizing, Add</i>		12.58	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.14	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		13.63	
05 12 23 00-0399	LF	S6 x 12.5 A992/A36 Structural Steel	.....	58.35	19.78
		<i>For Hot Dip Galvanizing, Add</i>		10.32	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		5.25	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		11.67	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0400 LF S5 x 14.75 A992/A36 Structural Steel	62.20	20.16
For Hot Dip Galvanizing, Add	11.31	
For High Strength Low Alloy A572-50 Steel, Add	5.60	
For High Strength Low Alloy A588 Grade B Steel, Add	12.44	
05 12 23 00-0401 LF S5 x 10 A992/A36 Structural Steel	52.68	19.65
For Hot Dip Galvanizing, Add	8.78	
For High Strength Low Alloy A572-50 Steel, Add	4.74	
For High Strength Low Alloy A588 Grade B Steel, Add	10.54	
05 12 23 00-0402 LF S4 x 9.5 A992/A36 Structural Steel	51.21	19.65
For Hot Dip Galvanizing, Add	8.37	
For High Strength Low Alloy A572-50 Steel, Add	4.61	
For High Strength Low Alloy A588 Grade B Steel, Add	10.24	
05 12 23 00-0403 LF S4 x 7.7 A992/A36 Structural Steel	47.83	19.65
For Hot Dip Galvanizing, Add	7.47	
For High Strength Low Alloy A572-50 Steel, Add	4.30	
For High Strength Low Alloy A588 Grade B Steel, Add	9.57	
05 12 23 00-0404 LF S3 x 7.5 A992/A36 Structural Steel	47.50	19.65
For Hot Dip Galvanizing, Add	7.38	
For High Strength Low Alloy A572-50 Steel, Add	4.28	
For High Strength Low Alloy A588 Grade B Steel, Add	9.50	
05 12 23 00-0405 LF S3 x 5.7 A992/A36 Structural Steel	43.47	19.53
For Hot Dip Galvanizing, Add	6.29	
For High Strength Low Alloy A572-50 Steel, Add	3.91	
For High Strength Low Alloy A588 Grade B Steel, Add	8.69	
05 12 23 00-0406 A992/A36 Structural Steel, HP Shapes (05 12 23 00-0147)		
Note: Includes material delivery and erection.		
05 12 23 00-0407 LF HP14 x 117 A992/A36 Structural Steel	252.60	25.08
For Hot Dip Galvanizing, Add	62.68	
For High Strength Low Alloy A572-50 Steel, Add	22.73	
For High Strength Low Alloy A588 Grade B Steel, Add	50.52	
05 12 23 00-0408 LF HP14 x 102 A992/A36 Structural Steel	220.98	23.34
For Hot Dip Galvanizing, Add	54.42	
For High Strength Low Alloy A572-50 Steel, Add	19.89	
For High Strength Low Alloy A588 Grade B Steel, Add	44.20	
05 12 23 00-0409 LF HP14 x 89 A992/A36 Structural Steel	196.83	21.89
For Hot Dip Galvanizing, Add	48.14	
For High Strength Low Alloy A572-50 Steel, Add	17.71	
For High Strength Low Alloy A588 Grade B Steel, Add	39.37	
05 12 23 00-0410 LF HP14 x 73 A992/A36 Structural Steel	162.85	20.63
For Hot Dip Galvanizing, Add	39.09	
For High Strength Low Alloy A572-50 Steel, Add	14.66	
For High Strength Low Alloy A588 Grade B Steel, Add	32.57	
05 12 23 00-0411 LF HP13 x 100 A992/A36 Structural Steel	216.64	22.88
For Hot Dip Galvanizing, Add	53.35	
For High Strength Low Alloy A572-50 Steel, Add	19.50	
For High Strength Low Alloy A588 Grade B Steel, Add	43.33	
05 12 23 00-0412 LF HP13 x 87 A992/A36 Structural Steel	192.40	21.40
For Hot Dip Galvanizing, Add	47.06	
For High Strength Low Alloy A572-50 Steel, Add	17.32	
For High Strength Low Alloy A588 Grade B Steel, Add	38.48	
05 12 23 00-0413 LF HP13 x 73 A992/A36 Structural Steel	162.85	20.63
For Hot Dip Galvanizing, Add	39.09	
For High Strength Low Alloy A572-50 Steel, Add	14.66	
For High Strength Low Alloy A588 Grade B Steel, Add	32.57	
05 12 23 00-0414 LF HP13 x 60 A992/A36 Structural Steel	137.88	19.77
For Hot Dip Galvanizing, Add	32.41	
For High Strength Low Alloy A572-50 Steel, Add	12.41	
For High Strength Low Alloy A588 Grade B Steel, Add	27.58	
05 12 23 00-0415 LF HP12 x 84 A992/A36 Structural Steel	181.42	22.57
For Hot Dip Galvanizing, Add	43.67	
For High Strength Low Alloy A572-50 Steel, Add	16.33	
For High Strength Low Alloy A588 Grade B Steel, Add	36.28	
05 12 23 00-0416 LF HP12 x 74 A992/A36 Structural Steel	160.22	21.29
For Hot Dip Galvanizing, Add	38.17	
For High Strength Low Alloy A572-50 Steel, Add	14.42	
For High Strength Low Alloy A588 Grade B Steel, Add	32.04	
05 12 23 00-0417 LF HP12 x 63 A992/A36 Structural Steel	137.88	19.58
For Hot Dip Galvanizing, Add	32.47	
For High Strength Low Alloy A572-50 Steel, Add	12.41	
For High Strength Low Alloy A588 Grade B Steel, Add	27.58	
05 12 23 00-0418 LF HP12 x 53 A992/A36 Structural Steel	126.40	18.61
For Hot Dip Galvanizing, Add	29.57	
For High Strength Low Alloy A572-50 Steel, Add	11.38	
For High Strength Low Alloy A588 Grade B Steel, Add	25.28	
05 12 23 00-0419 LF HP10 x 57 A992/A36 Structural Steel	133.18	19.09
For Hot Dip Galvanizing, Add	31.31	
For High Strength Low Alloy A572-50 Steel, Add	11.99	
For High Strength Low Alloy A588 Grade B Steel, Add	26.64	
05 12 23 00-0420 LF HP10 x 42 A992/A36 Structural Steel	109.66	17.90
For Hot Dip Galvanizing, Add	25.14	
For High Strength Low Alloy A572-50 Steel, Add	9.87	
For High Strength Low Alloy A588 Grade B Steel, Add	21.93	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0421 LF HP8 x 36 A992/A36 Structural Steel.....	95.30	16.88
For Hot Dip Galvanizing, Add	21.45	
For High Strength Low Alloy A572-50 Steel, Add	8.58	
For High Strength Low Alloy A588 Grade B Steel, Add	19.06	
 05 12 23 00-0422 Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0423 Angle Iron - L <small>(05 12 23 00-0422)</small>		
05 12 23 00-0424 1/8" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0425 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	2.85	1.71
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.37	
For >1,000, Deduct	-0.50	
For 316 Stainless Steel, Add	1.79	
For Aluminum, Add	0.10	
For Galvanized Steel, Add	0.35	
For 304 Stainless Steel, Add	1.60	
For High Strength Steel (HSS), Add	0.57	
05 12 23 00-0426 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	3.30	1.94
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.42	
For >1,000, Deduct	-0.57	
For 316 Stainless Steel, Add	2.27	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.44	
For 304 Stainless Steel, Add	2.02	
For High Strength Steel (HSS), Add	0.66	
05 12 23 00-0427 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	3.73	2.14
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.64	
For 316 Stainless Steel, Add	2.82	
For Aluminum, Add	0.16	
For Galvanized Steel, Add	0.55	
For 304 Stainless Steel, Add	2.51	
For High Strength Steel (HSS), Add	0.75	
05 12 23 00-0428 LF 1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	4.20	2.38
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.53	
For >1,000, Deduct	-0.71	
For 316 Stainless Steel, Add	3.26	
For Aluminum, Add	0.18	
For Galvanized Steel, Add	0.63	
For 304 Stainless Steel, Add	2.91	
For High Strength Steel (HSS), Add	0.84	
05 12 23 00-0429 LF 1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.62	2.57
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.37	
For >500 To 1,000, Deduct	-0.57	
For >1,000, Deduct	-0.78	
For 316 Stainless Steel, Add	3.81	
For Aluminum, Add	0.21	
For Galvanized Steel, Add	0.74	
For 304 Stainless Steel, Add	3.39	
For High Strength Steel (HSS), Add	0.92	
05 12 23 00-0430 LF 1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.53	3.02
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.92	
For 316 Stainless Steel, Add	4.80	
For Aluminum, Add	0.27	
For Galvanized Steel, Add	0.93	
For 304 Stainless Steel, Add	4.28	
For High Strength Steel (HSS), Add	1.11	
05 12 23 00-0431 LF 1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.53	3.02
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.92	
For 316 Stainless Steel, Add	4.80	
For Aluminum, Add	0.27	
For Galvanized Steel, Add	0.93	
For 304 Stainless Steel, Add	4.28	
For High Strength Steel (HSS), Add	1.11	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.14	3.25
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.74	
			<i>For >1,000, Deduct</i>	-1.00	
			<i>For 316 Stainless Steel, Add</i>	5.79	
			<i>For Aluminum, Add</i>	0.33	
			<i>For Galvanized Steel, Add</i>	1.12	
			<i>For 304 Stainless Steel, Add</i>	5.16	
			<i>For High Strength Steel (HSS), Add</i>	1.23	
05 12 23 00-0433	LF		1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron	6.62	3.36
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For 316 Stainless Steel, Add</i>	6.85	
			<i>For Aluminum, Add</i>	0.39	
			<i>For Galvanized Steel, Add</i>	1.33	
			<i>For 304 Stainless Steel, Add</i>	6.10	
			<i>For High Strength Steel (HSS), Add</i>	1.32	
05 12 23 00-0434	LF		2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.62	3.36
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For 316 Stainless Steel, Add</i>	6.85	
			<i>For Aluminum, Add</i>	0.39	
			<i>For Galvanized Steel, Add</i>	1.33	
			<i>For 304 Stainless Steel, Add</i>	6.10	
			<i>For High Strength Steel (HSS), Add</i>	1.32	
05 12 23 00-0435	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	7.09	3.47
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	7.87	
			<i>For Aluminum, Add</i>	0.44	
			<i>For Galvanized Steel, Add</i>	1.53	
			<i>For 304 Stainless Steel, Add</i>	7.01	
			<i>For High Strength Steel (HSS), Add</i>	1.42	
05 12 23 00-0436			3/16" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0437	LF		1" x 1" x 3/16" Thick, Plain Steel Angle Iron.....	5.34	2.72
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.41	
			<i>For >500 To 1,000, Deduct</i>	-0.63	
			<i>For >1,000, Deduct</i>	-0.85	
			<i>For 316 Stainless Steel, Add</i>	5.50	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.07	
			<i>For 304 Stainless Steel, Add</i>	4.90	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0438	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.47	3.20
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.75	
			<i>For >1,000, Deduct</i>	-1.02	
			<i>For 316 Stainless Steel, Add</i>	7.04	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.36	
			<i>For 304 Stainless Steel, Add</i>	6.27	
			<i>For High Strength Steel (HSS), Add</i>	1.29	
05 12 23 00-0439	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.47	3.20
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.75	
			<i>For >1,000, Deduct</i>	-1.02	
			<i>For 316 Stainless Steel, Add</i>	7.04	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.36	
			<i>For 304 Stainless Steel, Add</i>	6.27	
			<i>For High Strength Steel (HSS), Add</i>	1.29	
05 12 23 00-0440	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.24	3.43
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	8.54	
			<i>For Aluminum, Add</i>	0.48	
			<i>For Galvanized Steel, Add</i>	1.66	
			<i>For 304 Stainless Steel, Add</i>	7.61	
			<i>For High Strength Steel (HSS), Add</i>	1.45	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0441 LF 1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron	7.89	3.55
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.87	
For >1,000, Deduct	-1.18	
For 316 Stainless Steel, Add	10.11	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	9.01	
For High Strength Steel (HSS), Add	1.58	
05 12 23 00-0442 LF 2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.89	3.55
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.87	
For >1,000, Deduct	-1.18	
For 316 Stainless Steel, Add	10.11	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	9.01	
For High Strength Steel (HSS), Add	1.58	
05 12 23 00-0443 LF 2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.52	3.67
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.92	
For >1,000, Deduct	-1.25	
For 316 Stainless Steel, Add	11.62	
For Aluminum, Add	0.65	
For Galvanized Steel, Add	2.25	
For 304 Stainless Steel, Add	10.35	
For High Strength Steel (HSS), Add	1.70	
05 12 23 00-0444 LF 2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.34	3.93
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.36	
For 316 Stainless Steel, Add	13.09	
For Aluminum, Add	0.74	
For Galvanized Steel, Add	2.54	
For 304 Stainless Steel, Add	11.66	
For High Strength Steel (HSS), Add	1.87	
05 12 23 00-0445 LF 2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.20	4.22
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.07	
For >1,000, Deduct	-1.47	
For 316 Stainless Steel, Add	14.66	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.84	
For 304 Stainless Steel, Add	13.05	
For High Strength Steel (HSS), Add	2.04	
05 12 23 00-0446 LF 3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.19	4.22
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.07	
For >1,000, Deduct	-1.47	
For 316 Stainless Steel, Add	14.62	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.83	
For 304 Stainless Steel, Add	13.02	
For High Strength Steel (HSS), Add	2.04	
05 12 23 00-0447 LF 3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.26	4.65
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.18	
For >1,000, Deduct	-1.62	
For 316 Stainless Steel, Add	16.16	
For Aluminum, Add	0.91	
For Galvanized Steel, Add	3.13	
For 304 Stainless Steel, Add	14.39	
For High Strength Steel (HSS), Add	2.25	
05 12 23 00-0448 LF 3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.32	5.10
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.77	
For 316 Stainless Steel, Add	17.66	
For Aluminum, Add	0.99	
For Galvanized Steel, Add	3.42	
For 304 Stainless Steel, Add	15.73	
For High Strength Steel (HSS), Add	2.46	

05 12 23 00-0449 1/4" Thick (05 12 23 00-0423)

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0450	LF		1" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	6.39	3.14
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.47	
			<i>For >500 To 1,000, Deduct</i>	-0.74	
			<i>For >1,000, Deduct</i>	-1.00	
			<i>For 316 Stainless Steel, Add</i>	7.01	
			<i>For Aluminum, Add</i>	0.39	
			<i>For Galvanized Steel, Add</i>	1.36	
			<i>For 304 Stainless Steel, Add</i>	6.24	
			<i>For High Strength Steel (HSS), Add</i>	1.28	
05 12 23 00-0451	LF		1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron	7.34	3.38
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	9.06	
			<i>For Aluminum, Add</i>	0.51	
			<i>For Galvanized Steel, Add</i>	1.75	
			<i>For 304 Stainless Steel, Add</i>	8.07	
			<i>For High Strength Steel (HSS), Add</i>	1.47	
05 12 23 00-0452	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.33	3.38
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.11	
			<i>For 316 Stainless Steel, Add</i>	9.02	
			<i>For Aluminum, Add</i>	0.51	
			<i>For Galvanized Steel, Add</i>	1.75	
			<i>For 304 Stainless Steel, Add</i>	8.04	
			<i>For High Strength Steel (HSS), Add</i>	1.47	
05 12 23 00-0453	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.27	3.61
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.90	
			<i>For >1,000, Deduct</i>	-1.22	
			<i>For 316 Stainless Steel, Add</i>	11.04	
			<i>For Aluminum, Add</i>	0.62	
			<i>For Galvanized Steel, Add</i>	2.14	
			<i>For 304 Stainless Steel, Add</i>	9.83	
			<i>For High Strength Steel (HSS), Add</i>	1.65	
05 12 23 00-0454	LF		1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron	9.11	3.73
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.95	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	13.22	
			<i>For Aluminum, Add</i>	0.74	
			<i>For Galvanized Steel, Add</i>	2.56	
			<i>For 304 Stainless Steel, Add</i>	11.77	
			<i>For High Strength Steel (HSS), Add</i>	1.82	
05 12 23 00-0455	LF		2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	8.07	3.50
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	11.14	
			<i>For Aluminum, Add</i>	0.63	
			<i>For Galvanized Steel, Add</i>	2.16	
			<i>For 304 Stainless Steel, Add</i>	9.92	
			<i>For High Strength Steel (HSS), Add</i>	1.61	
05 12 23 00-0456	LF		2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	9.09	3.73
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.95	
			<i>For >1,000, Deduct</i>	-1.30	
			<i>For 316 Stainless Steel, Add</i>	13.15	
			<i>For Aluminum, Add</i>	0.74	
			<i>For Galvanized Steel, Add</i>	2.55	
			<i>For 304 Stainless Steel, Add</i>	11.71	
			<i>For High Strength Steel (HSS), Add</i>	1.82	
05 12 23 00-0457	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	9.88	3.85
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.38	
			<i>For 316 Stainless Steel, Add</i>	15.17	
			<i>For Aluminum, Add</i>	0.85	
			<i>For Galvanized Steel, Add</i>	2.94	
			<i>For 304 Stainless Steel, Add</i>	13.51	
			<i>For High Strength Steel (HSS), Add</i>	1.98	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0458 LF 2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.08	4.27
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-1.54	
For 316 Stainless Steel, Add	17.25	
For Aluminum, Add	0.97	
For Galvanized Steel, Add	3.34	
For 304 Stainless Steel, Add	15.36	
For High Strength Steel (HSS), Add	2.22	
05 12 23 00-0459 LF 2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.33	4.68
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.70	
For 316 Stainless Steel, Add	19.49	
For Aluminum, Add	1.10	
For Galvanized Steel, Add	3.78	
For 304 Stainless Steel, Add	17.36	
For High Strength Steel (HSS), Add	2.47	
05 12 23 00-0460 LF 3" x 2" x 1/4" Thick, Plain Steel Angle Iron	12.33	4.68
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.70	
For 316 Stainless Steel, Add	19.49	
For Aluminum, Add	1.10	
For Galvanized Steel, Add	3.78	
For 304 Stainless Steel, Add	17.36	
For High Strength Steel (HSS), Add	2.47	
05 12 23 00-0461 LF 3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	13.63	5.20
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.37	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	21.44	
For Aluminum, Add	1.21	
For Galvanized Steel, Add	4.15	
For 304 Stainless Steel, Add	19.10	
For High Strength Steel (HSS), Add	2.73	
05 12 23 00-0462 LF 3" x 3" x 1/4" Thick, Plain Steel Angle Iron	14.89	5.71
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.51	
For >1,000, Deduct	-2.07	
For 316 Stainless Steel, Add	23.30	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.51	
For 304 Stainless Steel, Add	20.75	
For High Strength Steel (HSS), Add	2.98	
05 12 23 00-0463 LF 3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.20	6.14
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.02	
For >500 To 1,000, Deduct	-1.63	
For >1,000, Deduct	-2.24	
For 316 Stainless Steel, Add	25.66	
For Aluminum, Add	1.44	
For Galvanized Steel, Add	4.97	
For 304 Stainless Steel, Add	22.86	
For High Strength Steel (HSS), Add	3.24	
05 12 23 00-0464 LF 3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.17	0.64
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-1.71	
For >1,000, Deduct	-2.36	
For 316 Stainless Steel, Add	27.62	
For Aluminum, Add	1.55	
For Galvanized Steel, Add	5.35	
For 304 Stainless Steel, Add	24.60	
For High Strength Steel (HSS), Add	3.43	
05 12 23 00-0465 LF 4" x 3" x 1/4" Thick, Plain Steel Angle Iron	17.17	6.41
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-1.71	
For >1,000, Deduct	-2.36	
For 316 Stainless Steel, Add	27.62	
For Aluminum, Add	1.55	
For Galvanized Steel, Add	5.35	
For 304 Stainless Steel, Add	24.60	
For High Strength Steel (HSS), Add	3.43	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0466	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.12	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.80	
			<i>For >1,000, Deduct</i>	-2.47	
			<i>For 316 Stainless Steel, Add</i>	29.47	
			<i>For Aluminum, Add</i>	1.66	
			<i>For Galvanized Steel, Add</i>	5.71	
			<i>For 304 Stainless Steel, Add</i>	26.25	
			<i>For High Strength Steel (HSS), Add</i>	3.62	
05 12 23 00-0467	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	19.11	6.97
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-1.88	
			<i>For >1,000, Deduct</i>	-2.59	
			<i>For 316 Stainless Steel, Add</i>	31.46	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.09	
			<i>For 304 Stainless Steel, Add</i>	28.02	
			<i>For High Strength Steel (HSS), Add</i>	3.82	
05 12 23 00-0468	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	19.11	6.97
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-1.88	
			<i>For >1,000, Deduct</i>	-2.59	
			<i>For 316 Stainless Steel, Add</i>	31.46	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.09	
			<i>For 304 Stainless Steel, Add</i>	28.02	
			<i>For High Strength Steel (HSS), Add</i>	3.82	
05 12 23 00-0469	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	20.18	7.34
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.24	
			<i>For >500 To 1,000, Deduct</i>	-1.99	
			<i>For >1,000, Deduct</i>	-2.74	
			<i>For 316 Stainless Steel, Add</i>	33.25	
			<i>For Aluminum, Add</i>	1.87	
			<i>For Galvanized Steel, Add</i>	6.44	
			<i>For 304 Stainless Steel, Add</i>	29.61	
			<i>For High Strength Steel (HSS), Add</i>	4.04	
05 12 23 00-0470			5/16" Thick (05 12 23 00-0423)		
05 12 23 00-0471	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.31	4.97
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500 To 1,000, Deduct</i>	-1.33	
			<i>For >1,000, Deduct</i>	-1.82	
			<i>For 316 Stainless Steel, Add</i>	21.44	
			<i>For Aluminum, Add</i>	1.21	
			<i>For Galvanized Steel, Add</i>	4.15	
			<i>For 304 Stainless Steel, Add</i>	19.10	
			<i>For High Strength Steel (HSS), Add</i>	2.66	
05 12 23 00-0472	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	14.46	5.26
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.89	
			<i>For >500 To 1,000, Deduct</i>	-1.43	
			<i>For >1,000, Deduct</i>	-1.96	
			<i>For 316 Stainless Steel, Add</i>	23.81	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.61	
			<i>For 304 Stainless Steel, Add</i>	21.20	
			<i>For High Strength Steel (HSS), Add</i>	2.89	
05 12 23 00-0473	LF		3" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	14.46	5.26
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.89	
			<i>For >500 To 1,000, Deduct</i>	-1.43	
			<i>For >1,000, Deduct</i>	-1.96	
			<i>For 316 Stainless Steel, Add</i>	23.81	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.61	
			<i>For 304 Stainless Steel, Add</i>	21.20	
			<i>For High Strength Steel (HSS), Add</i>	2.89	
05 12 23 00-0474	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.04	5.76
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-0.98	
			<i>For >500 To 1,000, Deduct</i>	-1.57	
			<i>For >1,000, Deduct</i>	-2.17	
			<i>For 316 Stainless Steel, Add</i>	26.69	
			<i>For Aluminum, Add</i>	1.50	
			<i>For Galvanized Steel, Add</i>	5.17	
			<i>For 304 Stainless Steel, Add</i>	23.77	
			<i>For High Strength Steel (HSS), Add</i>	3.21	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0475 LF 3" x 3" x 5/16" Thick, Plain Steel Angle Iron	17.44	6.27
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-1.71	
For >1,000, Deduct	-2.35	
For 316 Stainless Steel, Add	29.06	
For Aluminum, Add	1.63	
For Galvanized Steel, Add	5.63	
For 304 Stainless Steel, Add	25.88	
For High Strength Steel (HSS), Add	3.49	
05 12 23 00-0476 LF 3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.62	6.59
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.50	
For 316 Stainless Steel, Add	31.46	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.09	
For 304 Stainless Steel, Add	28.02	
For High Strength Steel (HSS), Add	3.72	
05 12 23 00-0477 LF 3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	19.90	6.92
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	34.21	
For Aluminum, Add	1.92	
For Galvanized Steel, Add	6.63	
For 304 Stainless Steel, Add	30.47	
For High Strength Steel (HSS), Add	3.98	
05 12 23 00-0478 LF 4" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.90	6.92
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	34.21	
For Aluminum, Add	1.92	
For Galvanized Steel, Add	6.63	
For 304 Stainless Steel, Add	30.47	
For High Strength Steel (HSS), Add	3.98	
05 12 23 00-0479 LF 4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	21.18	7.31
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.03	
For >1,000, Deduct	-2.81	
For 316 Stainless Steel, Add	36.58	
For Aluminum, Add	2.06	
For Galvanized Steel, Add	7.09	
For 304 Stainless Steel, Add	32.58	
For High Strength Steel (HSS), Add	4.24	
05 12 23 00-0480 LF 4" x 4" x 5/16" Thick, Plain Steel Angle Iron	22.39	7.63
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.32	
For >500 To 1,000, Deduct	-2.14	
For >1,000, Deduct	-2.95	
For 316 Stainless Steel, Add	39.07	
For Aluminum, Add	2.20	
For Galvanized Steel, Add	7.57	
For 304 Stainless Steel, Add	34.80	
For High Strength Steel (HSS), Add	4.48	
05 12 23 00-0481 LF 5" x 3" x 5/16" Thick, Plain Steel Angle Iron	22.39	7.63
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.32	
For >500 To 1,000, Deduct	-2.14	
For >1,000, Deduct	-2.95	
For 316 Stainless Steel, Add	39.07	
For Aluminum, Add	2.20	
For Galvanized Steel, Add	7.57	
For 304 Stainless Steel, Add	34.80	
For High Strength Steel (HSS), Add	4.48	
05 12 23 00-0482 LF 5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	23.53	7.95
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.38	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.09	
For 316 Stainless Steel, Add	41.34	
For Aluminum, Add	2.33	
For Galvanized Steel, Add	8.01	
For 304 Stainless Steel, Add	36.82	
For High Strength Steel (HSS), Add	4.71	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0483	LF 5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	26.38	8.29
	<i>For >100 To 250, Deduct</i>	-0.83	
	<i>For >250 To 500, Deduct</i>	-1.49	
	<i>For >500 To 1,000, Deduct</i>	-2.42	
	<i>For >1,000, Deduct</i>	-3.36	
	<i>For 316 Stainless Steel, Add</i>	49.06	
	<i>For Aluminum, Add</i>	2.76	
	<i>For Galvanized Steel, Add</i>	9.50	
	<i>For 304 Stainless Steel, Add</i>	43.69	
	<i>For High Strength Steel (HSS), Add</i>	5.28	
05 12 23 00-0484	LF 6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	26.07	8.64
	<i>For >100 To 250, Deduct</i>	-0.86	
	<i>For >250 To 500, Deduct</i>	-1.52	
	<i>For >500 To 1,000, Deduct</i>	-2.46	
	<i>For >1,000, Deduct</i>	-3.40	
	<i>For 316 Stainless Steel, Add</i>	46.56	
	<i>For Aluminum, Add</i>	2.62	
	<i>For Galvanized Steel, Add</i>	9.02	
	<i>For 304 Stainless Steel, Add</i>	41.47	
	<i>For High Strength Steel (HSS), Add</i>	5.21	
05 12 23 00-0485	3/8" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0486	LF 3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	16.10	5.50
	<i>For >100 To 250, Deduct</i>	-0.55	
	<i>For >250 To 500, Deduct</i>	-0.95	
	<i>For >500 To 1,000, Deduct</i>	-1.54	
	<i>For >1,000, Deduct</i>	-2.13	
	<i>For 316 Stainless Steel, Add</i>	28.03	
	<i>For Aluminum, Add</i>	1.58	
	<i>For Galvanized Steel, Add</i>	5.43	
	<i>For 304 Stainless Steel, Add</i>	24.97	
	<i>For High Strength Steel (HSS), Add</i>	3.22	
05 12 23 00-0487	LF 3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	17.78	5.97
	<i>For >100 To 250, Deduct</i>	-0.60	
	<i>For >250 To 500, Deduct</i>	-1.04	
	<i>For >500 To 1,000, Deduct</i>	-1.68	
	<i>For >1,000, Deduct</i>	-2.33	
	<i>For 316 Stainless Steel, Add</i>	31.46	
	<i>For Aluminum, Add</i>	1.77	
	<i>For Galvanized Steel, Add</i>	6.09	
	<i>For 304 Stainless Steel, Add</i>	28.02	
	<i>For High Strength Steel (HSS), Add</i>	3.56	
05 12 23 00-0488	LF 3" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	19.25	6.42
	<i>For >100 To 250, Deduct</i>	-0.64	
	<i>For >250 To 500, Deduct</i>	-1.12	
	<i>For >500 To 1,000, Deduct</i>	-1.82	
	<i>For >1,000, Deduct</i>	-2.51	
	<i>For 316 Stainless Steel, Add</i>	34.21	
	<i>For Aluminum, Add</i>	1.92	
	<i>For Galvanized Steel, Add</i>	6.63	
	<i>For 304 Stainless Steel, Add</i>	30.47	
	<i>For High Strength Steel (HSS), Add</i>	3.85	
05 12 23 00-0489	LF 3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.56	6.60
	<i>For >100 To 250, Deduct</i>	-0.66	
	<i>For >250 To 500, Deduct</i>	-1.17	
	<i>For >500 To 1,000, Deduct</i>	-1.91	
	<i>For >1,000, Deduct</i>	-2.64	
	<i>For 316 Stainless Steel, Add</i>	37.63	
	<i>For Aluminum, Add</i>	2.12	
	<i>For Galvanized Steel, Add</i>	7.29	
	<i>For 304 Stainless Steel, Add</i>	33.52	
	<i>For High Strength Steel (HSS), Add</i>	4.11	
05 12 23 00-0490	LF 3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	21.90	6.96
	<i>For >100 To 250, Deduct</i>	-0.70	
	<i>For >250 To 500, Deduct</i>	-1.24	
	<i>For >500 To 1,000, Deduct</i>	-2.02	
	<i>For >1,000, Deduct</i>	-2.80	
	<i>For 316 Stainless Steel, Add</i>	40.38	
	<i>For Aluminum, Add</i>	2.27	
	<i>For Galvanized Steel, Add</i>	7.82	
	<i>For 304 Stainless Steel, Add</i>	35.97	
	<i>For High Strength Steel (HSS), Add</i>	4.38	
05 12 23 00-0491	LF 4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	21.90	6.96
	<i>For >100 To 250, Deduct</i>	-0.70	
	<i>For >250 To 500, Deduct</i>	-1.24	
	<i>For >500 To 1,000, Deduct</i>	-2.02	
	<i>For >1,000, Deduct</i>	-2.80	
	<i>For 316 Stainless Steel, Add</i>	40.38	
	<i>For Aluminum, Add</i>	2.27	
	<i>For Galvanized Steel, Add</i>	7.82	
	<i>For 304 Stainless Steel, Add</i>	35.97	
	<i>For High Strength Steel (HSS), Add</i>	4.38	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0492 LF 4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	23.62	7.58
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.19	
For >1,000, Deduct	-3.04	
For 316 Stainless Steel, Add	43.23	
For Aluminum, Add	2.43	
For Galvanized Steel, Add	8.38	
For 304 Stainless Steel, Add	38.50	
For High Strength Steel (HSS), Add	4.72	
05 12 23 00-0493 LF 4" x 4" x 3/8" Thick, Plain Steel Angle Iron	24.96	7.81
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.40	
For >500 To 1,000, Deduct	-2.29	
For >1,000, Deduct	-3.17	
For 316 Stainless Steel, Add	46.56	
For Aluminum, Add	2.62	
For Galvanized Steel, Add	9.02	
For 304 Stainless Steel, Add	41.47	
For High Strength Steel (HSS), Add	4.99	
05 12 23 00-0494 LF 5" x 3" x 3/8" Thick, Plain Steel Angle Iron	25.37	8.12
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.26	
For 316 Stainless Steel, Add	46.56	
For Aluminum, Add	2.62	
For Galvanized Steel, Add	9.02	
For 304 Stainless Steel, Add	41.47	
For High Strength Steel (HSS), Add	5.07	
05 12 23 00-0495 LF 5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	27.10	8.75
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.55	
For >500 To 1,000, Deduct	-2.52	
For >1,000, Deduct	-3.49	
For 316 Stainless Steel, Add	49.41	
For Aluminum, Add	2.78	
For Galvanized Steel, Add	9.57	
For 304 Stainless Steel, Add	44.00	
For High Strength Steel (HSS), Add	5.42	
05 12 23 00-0496 LF 5" x 5" x 3/8" Thick, Plain Steel Angle Iron	31.90	10.19
For >100 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.82	
For >500 To 1,000, Deduct	-2.95	
For >1,000, Deduct	-4.09	
For 316 Stainless Steel, Add	58.59	
For Aluminum, Add	3.30	
For Galvanized Steel, Add	11.35	
For 304 Stainless Steel, Add	52.18	
For High Strength Steel (HSS), Add	6.38	
05 12 23 00-0497 LF 6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	30.00	9.48
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.76	
For >1,000, Deduct	-3.83	
For 316 Stainless Steel, Add	55.58	
For Aluminum, Add	3.13	
For Galvanized Steel, Add	10.77	
For 304 Stainless Steel, Add	49.50	
For High Strength Steel (HSS), Add	6.00	
05 12 23 00-0498 LF 6" x 4" x 3/8" Thick, Plain Steel Angle Iron	31.90	10.19
For >100 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.82	
For >500 To 1,000, Deduct	-2.95	
For >1,000, Deduct	-4.09	
For 316 Stainless Steel, Add	58.59	
For Aluminum, Add	3.30	
For Galvanized Steel, Add	11.35	
For 304 Stainless Steel, Add	52.18	
For High Strength Steel (HSS), Add	6.38	
05 12 23 00-0499 LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron	38.48	12.24
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.55	
For >1,000, Deduct	-4.92	
For 316 Stainless Steel, Add	70.98	
For Aluminum, Add	3.99	
For Galvanized Steel, Add	13.75	
For 304 Stainless Steel, Add	63.21	
For High Strength Steel (HSS), Add	7.70	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0500	LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	35.20	11.21
	<i>For >100 To 250, Deduct</i>	-1.12	
	<i>For >250 To 500, Deduct</i>	-2.00	
	<i>For >500 To 1,000, Deduct</i>	-3.26	
	<i>For >1,000, Deduct</i>	-4.51	
	<i>For 316 Stainless Steel, Add</i>	64.77	
	<i>For Aluminum, Add</i>	3.64	
	<i>For Galvanized Steel, Add</i>	12.55	
	<i>For 304 Stainless Steel, Add</i>	57.68	
	<i>For High Strength Steel (HSS), Add</i>	7.04	
05 12 23 00-0501	1/2" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0502	LF 3" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	22.74	6.56
	<i>For >100 To 250, Deduct</i>	-0.66	
	<i>For >250 To 500, Deduct</i>	-1.22	
	<i>For >500 To 1,000, Deduct</i>	-2.01	
	<i>For >1,000, Deduct</i>	-2.80	
	<i>For 316 Stainless Steel, Add</i>	44.77	
	<i>For Aluminum, Add</i>	2.52	
	<i>For Galvanized Steel, Add</i>	8.67	
	<i>For 304 Stainless Steel, Add</i>	39.87	
	<i>For High Strength Steel (HSS), Add</i>	4.55	
05 12 23 00-0503	LF 4" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	26.86	7.75
	<i>For >100 To 250, Deduct</i>	-0.77	
	<i>For >250 To 500, Deduct</i>	-1.45	
	<i>For >500 To 1,000, Deduct</i>	-2.38	
	<i>For >1,000, Deduct</i>	-3.31	
	<i>For 316 Stainless Steel, Add</i>	52.90	
	<i>For Aluminum, Add</i>	2.98	
	<i>For Galvanized Steel, Add</i>	10.25	
	<i>For 304 Stainless Steel, Add</i>	47.11	
	<i>For High Strength Steel (HSS), Add</i>	5.37	
05 12 23 00-0504	LF 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	28.79	8.31
	<i>For >100 To 250, Deduct</i>	-0.83	
	<i>For >250 To 500, Deduct</i>	-1.55	
	<i>For >500 To 1,000, Deduct</i>	-2.55	
	<i>For >1,000, Deduct</i>	-3.54	
	<i>For 316 Stainless Steel, Add</i>	56.70	
	<i>For Aluminum, Add</i>	3.19	
	<i>For Galvanized Steel, Add</i>	10.99	
	<i>For 304 Stainless Steel, Add</i>	50.50	
	<i>For High Strength Steel (HSS), Add</i>	5.76	
05 12 23 00-0505	LF 4" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	30.97	8.94
	<i>For >100 To 250, Deduct</i>	-0.89	
	<i>For >250 To 500, Deduct</i>	-1.67	
	<i>For >500 To 1,000, Deduct</i>	-2.74	
	<i>For >1,000, Deduct</i>	-3.81	
	<i>For 316 Stainless Steel, Add</i>	60.99	
	<i>For Aluminum, Add</i>	3.43	
	<i>For Galvanized Steel, Add</i>	11.82	
	<i>For 304 Stainless Steel, Add</i>	54.32	
	<i>For High Strength Steel (HSS), Add</i>	6.19	
05 12 23 00-0506	LF 5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	30.97	8.94
	<i>For >100 To 250, Deduct</i>	-0.89	
	<i>For >250 To 500, Deduct</i>	-1.67	
	<i>For >500 To 1,000, Deduct</i>	-2.74	
	<i>For >1,000, Deduct</i>	-3.81	
	<i>For 316 Stainless Steel, Add</i>	60.99	
	<i>For Aluminum, Add</i>	3.43	
	<i>For Galvanized Steel, Add</i>	11.82	
	<i>For 304 Stainless Steel, Add</i>	54.32	
	<i>For High Strength Steel (HSS), Add</i>	6.19	
05 12 23 00-0507	LF 5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	32.91	9.50
	<i>For >100 To 250, Deduct</i>	-0.95	
	<i>For >250 To 500, Deduct</i>	-1.77	
	<i>For >500 To 1,000, Deduct</i>	-2.91	
	<i>For >1,000, Deduct</i>	-4.05	
	<i>For 316 Stainless Steel, Add</i>	64.80	
	<i>For Aluminum, Add</i>	3.65	
	<i>For Galvanized Steel, Add</i>	12.56	
	<i>For 304 Stainless Steel, Add</i>	57.71	
	<i>For High Strength Steel (HSS), Add</i>	6.58	
05 12 23 00-0508	LF 5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	39.20	11.32
	<i>For >100 To 250, Deduct</i>	-1.13	
	<i>For >250 To 500, Deduct</i>	-2.11	
	<i>For >500 To 1,000, Deduct</i>	-3.47	
	<i>For >1,000, Deduct</i>	-4.83	
	<i>For 316 Stainless Steel, Add</i>	77.18	
	<i>For Aluminum, Add</i>	4.34	
	<i>For Galvanized Steel, Add</i>	14.95	
	<i>For 304 Stainless Steel, Add</i>	68.74	
	<i>For High Strength Steel (HSS), Add</i>	7.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0509 LF 6" x 4" x 1/2" Thick, Plain Steel Angle Iron	39.20	11.32
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.11	
For >500 To 1,000, Deduct	-3.47	
For >1,000, Deduct	-4.83	
For 316 Stainless Steel, Add	77.18	
For Aluminum, Add	4.34	
For Galvanized Steel, Add	14.95	
For 304 Stainless Steel, Add	68.74	
For High Strength Steel (HSS), Add	7.84	
05 12 23 00-0510 LF 6" x 6" x 1/2" Thick, Plain Steel Angle Iron	47.42	13.68
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-5.84	
For 316 Stainless Steel, Add	93.34	
For Aluminum, Add	5.25	
For Galvanized Steel, Add	18.09	
For 304 Stainless Steel, Add	83.13	
For High Strength Steel (HSS), Add	9.48	
05 12 23 00-0511 LF 7" x 4" x 1/2" Thick, Plain Steel Angle Iron	43.30	12.50
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-2.33	
For >500 To 1,000, Deduct	-3.83	
For >1,000, Deduct	-5.33	
For 316 Stainless Steel, Add	85.25	
For Aluminum, Add	4.80	
For Galvanized Steel, Add	16.52	
For 304 Stainless Steel, Add	75.92	
For High Strength Steel (HSS), Add	8.66	
05 12 23 00-0512 LF 8" x 4" x 1/2" Thick, Plain Steel Angle Iron	47.42	13.68
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-5.84	
For 316 Stainless Steel, Add	93.34	
For Aluminum, Add	5.25	
For Galvanized Steel, Add	18.09	
For 304 Stainless Steel, Add	83.13	
For High Strength Steel (HSS), Add	9.48	
05 12 23 00-0513 LF 8" x 6" x 1/2" Thick, Plain Steel Angle Iron	55.67	16.06
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-4.93	
For >1,000, Deduct	-6.85	
For 316 Stainless Steel, Add	109.60	
For Aluminum, Add	6.17	
For Galvanized Steel, Add	21.24	
For 304 Stainless Steel, Add	97.61	
For High Strength Steel (HSS), Add	11.13	
05 12 23 00-0514 LF 8" x 8" x 1/2" Thick, Plain Steel Angle Iron	63.88	18.43
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.44	
For >500 To 1,000, Deduct	-5.65	
For >1,000, Deduct	-7.86	
For 316 Stainless Steel, Add	125.76	
For Aluminum, Add	7.07	
For Galvanized Steel, Add	24.37	
For 304 Stainless Steel, Add	112.01	
For High Strength Steel (HSS), Add	12.78	
05 12 23 00-0515 5/8" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0516 LF 4" x 4" x 5/8" Thick, Plain Steel Angle Iron	37.03	10.24
For >100 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.95	
For >500 To 1,000, Deduct	-3.22	
For >1,000, Deduct	-4.48	
For 316 Stainless Steel, Add	74.78	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.49	
For High Strength Steel (HSS), Add	7.41	
05 12 23 00-0517 LF 5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	39.63	10.96
For >100 To 250, Deduct	-1.10	
For >250 To 500, Deduct	-2.09	
For >500 To 1,000, Deduct	-3.44	
For >1,000, Deduct	-4.80	
For 316 Stainless Steel, Add	80.06	
For Aluminum, Add	4.50	
For Galvanized Steel, Add	15.51	
For High Strength Steel (HSS), Add	7.93	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0518	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....	47.17	13.05
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500 To 1,000, Deduct</i>	-4.10	
			<i>For >1,000, Deduct</i>	-5.71	
			<i>For 316 Stainless Steel, Add</i>	95.26	
			<i>For Aluminum, Add</i>	5.36	
			<i>For Galvanized Steel, Add</i>	18.46	
			<i>For High Strength Steel (HSS), Add</i>	9.43	
05 12 23 00-0519	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	47.17	13.05
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500 To 1,000, Deduct</i>	-4.10	
			<i>For >1,000, Deduct</i>	-5.71	
			<i>For 316 Stainless Steel, Add</i>	95.26	
			<i>For Aluminum, Add</i>	5.36	
			<i>For Galvanized Steel, Add</i>	18.46	
			<i>For High Strength Steel (HSS), Add</i>	9.43	
05 12 23 00-0520	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	57.08	15.80
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-3.01	
			<i>For >500 To 1,000, Deduct</i>	-4.96	
			<i>For >1,000, Deduct</i>	-6.91	
			<i>For 316 Stainless Steel, Add</i>	115.30	
			<i>For Aluminum, Add</i>	6.49	
			<i>For Galvanized Steel, Add</i>	22.34	
			<i>For High Strength Steel (HSS), Add</i>	11.42	
05 12 23 00-0521	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	52.12	14.42
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500 To 1,000, Deduct</i>	-4.53	
			<i>For >1,000, Deduct</i>	-6.31	
			<i>For 316 Stainless Steel, Add</i>	105.28	
			<i>For Aluminum, Add</i>	5.92	
			<i>For Galvanized Steel, Add</i>	20.40	
			<i>For High Strength Steel (HSS), Add</i>	10.42	
05 12 23 00-0522	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	67.21	18.60
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-3.54	
			<i>For >500 To 1,000, Deduct</i>	-5.84	
			<i>For >1,000, Deduct</i>	-8.14	
			<i>For 316 Stainless Steel, Add</i>	135.74	
			<i>For Aluminum, Add</i>	7.64	
			<i>For Galvanized Steel, Add</i>	26.30	
			<i>For High Strength Steel (HSS), Add</i>	13.44	
05 12 23 00-0523	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron.....	77.13	21.34
			<i>For >100 To 250, Deduct</i>	-2.13	
			<i>For >250 To 500, Deduct</i>	-4.06	
			<i>For >500 To 1,000, Deduct</i>	-6.70	
			<i>For >1,000, Deduct</i>	-9.34	
			<i>For 316 Stainless Steel, Add</i>	155.78	
			<i>For Aluminum, Add</i>	8.76	
			<i>For Galvanized Steel, Add</i>	30.18	
			<i>For High Strength Steel (HSS), Add</i>	15.43	
05 12 23 00-0524			3/4" Thick (05 12 23 00-0423)		
05 12 23 00-0525	LF		4" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	42.65	11.33
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500 To 1,000, Deduct</i>	-3.64	
			<i>For >1,000, Deduct</i>	-5.09	
			<i>For 316 Stainless Steel, Add</i>	88.16	
			<i>For Aluminum, Add</i>	4.96	
			<i>For Galvanized Steel, Add</i>	17.08	
			<i>For High Strength Steel (HSS), Add</i>	8.53	
05 12 23 00-0526	LF		5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	45.62	12.11
			<i>For >100 To 250, Deduct</i>	-1.21	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500 To 1,000, Deduct</i>	-3.90	
			<i>For >1,000, Deduct</i>	-5.44	
			<i>For 316 Stainless Steel, Add</i>	94.30	
			<i>For Aluminum, Add</i>	5.30	
			<i>For Galvanized Steel, Add</i>	18.27	
			<i>For High Strength Steel (HSS), Add</i>	9.12	
05 12 23 00-0527	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	54.39	14.44
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-2.80	
			<i>For >500 To 1,000, Deduct</i>	-4.64	
			<i>For >1,000, Deduct</i>	-6.49	
			<i>For 316 Stainless Steel, Add</i>	112.45	
			<i>For Aluminum, Add</i>	6.33	
			<i>For Galvanized Steel, Add</i>	21.79	
			<i>For High Strength Steel (HSS), Add</i>	10.88	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0528 LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron	54.39	14.44
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.80	
For >500 To 1,000, Deduct	-4.64	
For >1,000, Deduct	-6.49	
For 316 Stainless Steel, Add	112.45	
For Aluminum, Add	6.33	
For Galvanized Steel, Add	21.79	
For High Strength Steel (HSS), Add	10.88	
05 12 23 00-0529 LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron	66.13	17.55
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-3.41	
For >500 To 1,000, Deduct	-5.65	
For >1,000, Deduct	-7.89	
For 316 Stainless Steel, Add	136.70	
For Aluminum, Add	7.69	
For Galvanized Steel, Add	26.49	
For High Strength Steel (HSS), Add	13.23	
05 12 23 00-0530 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron	60.37	16.03
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-3.11	
For >500 To 1,000, Deduct	-5.16	
For >1,000, Deduct	-7.20	
For 316 Stainless Steel, Add	124.80	
For Aluminum, Add	7.02	
For Galvanized Steel, Add	24.18	
For High Strength Steel (HSS), Add	12.07	
05 12 23 00-0531 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron	66.13	17.55
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-3.41	
For >500 To 1,000, Deduct	-5.65	
For >1,000, Deduct	-7.89	
For 316 Stainless Steel, Add	136.70	
For Aluminum, Add	7.69	
For Galvanized Steel, Add	26.49	
For High Strength Steel (HSS), Add	13.23	
05 12 23 00-0532 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron	77.90	20.67
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-4.02	
For >500 To 1,000, Deduct	-6.65	
For >1,000, Deduct	-9.29	
For 316 Stainless Steel, Add	161.06	
For Aluminum, Add	9.06	
For Galvanized Steel, Add	31.20	
For High Strength Steel (HSS), Add	15.58	
05 12 23 00-0533 LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron	89.64	23.79
For >100 To 250, Deduct	-2.38	
For >250 To 500, Deduct	-4.62	
For >500 To 1,000, Deduct	-7.66	
For >1,000, Deduct	-10.69	
For 316 Stainless Steel, Add	185.31	
For Aluminum, Add	10.42	
For Galvanized Steel, Add	35.90	
For High Strength Steel (HSS), Add	17.93	
05 12 23 00-0534 7/8" Thick <small>(05 12 23 00-0423)</small>		
05 12 23 00-0535 LF 5" x 5" x 7/8" Thick, Plain Steel Angle Iron	61.19	15.53
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-3.08	
For >500 To 1,000, Deduct	-5.13	
For >1,000, Deduct	-7.18	
For 316 Stainless Steel, Add	129.54	
For Aluminum, Add	7.29	
For Galvanized Steel, Add	25.10	
For High Strength Steel (HSS), Add	12.24	
05 12 23 00-0536 LF 6" x 4" x 7/8" Thick, Plain Steel Angle Iron	61.19	15.53
For >100 To 250, Deduct	-1.55	
For >250 To 500, Deduct	-3.08	
For >500 To 1,000, Deduct	-5.13	
For >1,000, Deduct	-7.18	
For 316 Stainless Steel, Add	129.54	
For Aluminum, Add	7.29	
For Galvanized Steel, Add	25.10	
For High Strength Steel (HSS), Add	12.24	
05 12 23 00-0537 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron	74.48	18.90
For >100 To 250, Deduct	-1.89	
For >250 To 500, Deduct	-3.75	
For >500 To 1,000, Deduct	-6.24	
For >1,000, Deduct	-8.74	
For 316 Stainless Steel, Add	157.70	
For Aluminum, Add	8.87	
For Galvanized Steel, Add	30.55	
For High Strength Steel (HSS), Add	14.90	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0538	LF		8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	87.98	22.33
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-4.43	
			<i>For >500 To 1,000, Deduct</i>	-7.38	
			<i>For >1,000, Deduct</i>	-10.32	
			<i>For 316 Stainless Steel, Add</i>	186.27	
			<i>For Aluminum, Add</i>	10.48	
			<i>For Galvanized Steel, Add</i>	36.09	
			<i>For High Strength Steel (HSS), Add</i>	17.60	
05 12 23 00-0539	LF		8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	101.24	25.69
			<i>For >100 To 250, Deduct</i>	-2.57	
			<i>For >250 To 500, Deduct</i>	-5.10	
			<i>For >500 To 1,000, Deduct</i>	-8.49	
			<i>For >1,000, Deduct</i>	-11.88	
			<i>For 316 Stainless Steel, Add</i>	214.34	
			<i>For Aluminum, Add</i>	12.06	
			<i>For Galvanized Steel, Add</i>	41.53	
			<i>For High Strength Steel (HSS), Add</i>	20.25	
05 12 23 00-0540			Bar Channel <small>(05 12 23 00-0422)</small>		
05 12 23 00-0541	LF		1" x 1/2" x 1/8" Thick Bar Channel.....	5.05	
			<i>For 316 Stainless Steel, Add</i>	5.18	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	4.62	
			<i>For High Strength Steel (HSS), Add</i>	1.01	
05 12 23 00-0542	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.67	
			<i>For 316 Stainless Steel, Add</i>	6.21	
			<i>For Aluminum, Add</i>	0.35	
			<i>For Galvanized Steel, Add</i>	1.20	
			<i>For 304 Stainless Steel, Add</i>	5.53	
			<i>For High Strength Steel (HSS), Add</i>	1.13	
05 12 23 00-0543	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.18	
			<i>For 316 Stainless Steel, Add</i>	6.88	
			<i>For Aluminum, Add</i>	0.39	
			<i>For Galvanized Steel, Add</i>	1.33	
			<i>For 304 Stainless Steel, Add</i>	6.13	
			<i>For High Strength Steel (HSS), Add</i>	1.24	
05 12 23 00-0544	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	7.06	
			<i>For 316 Stainless Steel, Add</i>	7.17	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.39	
			<i>For 304 Stainless Steel, Add</i>	6.38	
			<i>For High Strength Steel (HSS), Add</i>	1.41	
05 12 23 00-0545	LF		2" x 1/2" x 1/8" Thick Bar Channel.....	7.56	
			<i>For 316 Stainless Steel, Add</i>	8.77	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.70	
			<i>For 304 Stainless Steel, Add</i>	7.81	
05 12 23 00-0546	LF		2" x 1" x 1/8" Thick Bar Channel.....	9.96	
			<i>For 316 Stainless Steel, Add</i>	9.79	
			<i>For Aluminum, Add</i>	0.55	
			<i>For Galvanized Steel, Add</i>	1.90	
			<i>For 304 Stainless Steel, Add</i>	8.72	
05 12 23 00-0547			Channels - C <small>(05 12 23 00-0422)</small>		
05 12 23 00-0548	LF		C2 x 1.78 - 2" Wide Channel.....	8.27	4.26
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.33	
			<i>For 316 Stainless Steel, Add</i>	8.32	
			<i>For Aluminum, Add</i>	0.47	
			<i>For Galvanized Steel, Add</i>	1.61	
			<i>For 304 Stainless Steel, Add</i>	7.41	
05 12 23 00-0549	LF		C3 x 4.1 - 3" Wide Channel.....	14.26	6.11
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-1.53	
			<i>For >1,000, Deduct</i>	-2.09	
			<i>For 316 Stainless Steel, Add</i>	19.52	
			<i>For Aluminum, Add</i>	1.10	
			<i>For Galvanized Steel, Add</i>	3.78	
			<i>For 304 Stainless Steel, Add</i>	17.39	
05 12 23 00-0550	LF		C3 x 5 - 3" Wide Channel.....	17.39	7.46
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.18	
			<i>For >500 To 1,000, Deduct</i>	-1.86	
			<i>For >1,000, Deduct</i>	-2.55	
			<i>For 316 Stainless Steel, Add</i>	23.81	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.61	
			<i>For 304 Stainless Steel, Add</i>	21.20	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0551	LF		C3 x 6 - 3" Wide Channel	20.87	8.95
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.42	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000, Deduct	-3.06	
			For 316 Stainless Steel, Add	28.58	
			For Aluminum, Add	1.61	
			For Galvanized Steel, Add	5.54	
			For 304 Stainless Steel, Add	25.45	
05 12 23 00-0552	LF		C4 x 5.4 - 4" Wide Channel	17.83	7.34
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.18	
			For >500 To 1,000, Deduct	-1.87	
			For >1,000, Deduct	-2.56	
			For 316 Stainless Steel, Add	25.73	
			For Aluminum, Add	1.45	
			For Galvanized Steel, Add	4.98	
			For 304 Stainless Steel, Add	22.91	
05 12 23 00-0553	LF		C4 x 7.25 - 4" Wide Channel	23.93	9.85
			For >100 To 250, Deduct	-0.99	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.51	
			For >1,000, Deduct	-3.44	
			For 316 Stainless Steel, Add	34.53	
			For Aluminum, Add	1.94	
			For Galvanized Steel, Add	6.69	
			For 304 Stainless Steel, Add	30.75	
05 12 23 00-0554	LF		C5 x 6.7 - 5" Wide Channel	21.39	8.55
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.39	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-3.03	
			For 316 Stainless Steel, Add	31.90	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.18	
			For 304 Stainless Steel, Add	28.41	
05 12 23 00-0555	LF		C5 x 9 - 5" Wide Channel	28.73	11.51
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-1.87	
			For >500 To 1,000, Deduct	-2.97	
			For >1,000, Deduct	-4.07	
			For 316 Stainless Steel, Add	42.88	
			For Aluminum, Add	2.41	
			For Galvanized Steel, Add	8.31	
			For 304 Stainless Steel, Add	38.19	
05 12 23 00-0556	LF		C6 x 8.2 - 6" Wide Channel	25.91	10.27
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-2.67	
			For >1,000, Deduct	-3.66	
			For 316 Stainless Steel, Add	39.07	
			For Aluminum, Add	2.20	
			For Galvanized Steel, Add	7.57	
			For 304 Stainless Steel, Add	34.80	
05 12 23 00-0557	LF		C6 x 10.5 - 6" Wide Channel	33.17	13.16
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.14	
			For >500 To 1,000, Deduct	-3.41	
			For >1,000, Deduct	-4.68	
			For 316 Stainless Steel, Add	50.02	
			For Aluminum, Add	2.81	
			For Galvanized Steel, Add	9.69	
			For 304 Stainless Steel, Add	44.55	
05 12 23 00-0558	LF		C6 x 13 - 6" Wide Channel	41.08	16.29
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.66	
			For >500 To 1,000, Deduct	-4.23	
			For >1,000, Deduct	-5.80	
			For 316 Stainless Steel, Add	61.92	
			For Aluminum, Add	3.48	
			For Galvanized Steel, Add	12.00	
			For 304 Stainless Steel, Add	55.15	
05 12 23 00-0559	LF		C7 x 9.8 - 7" Wide Channel	30.90	12.24
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.00	
			For >500 To 1,000, Deduct	-3.18	
			For >1,000, Deduct	-4.36	
			For 316 Stainless Steel, Add	46.69	
			For Aluminum, Add	2.63	
			For Galvanized Steel, Add	9.05	
			For 304 Stainless Steel, Add	41.58	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0560	LF C7 x 12.25 - 7" Wide Channel.....	38.62	15.29
	For >100 To 250, Deduct	-1.53	
	For >250 To 500, Deduct	-2.49	
	For >500 To 1,000, Deduct	-3.97	
	For >1,000, Deduct	-5.45	
	For 316 Stainless Steel, Add	58.34	
	For Aluminum, Add	3.28	
	For Galvanized Steel, Add	11.30	
	For 304 Stainless Steel, Add	51.96	
05 12 23 00-0561	LF C7 x 14.75 - 7" Wide Channel.....	46.50	18.41
	For >100 To 250, Deduct	-1.84	
	For >250 To 500, Deduct	-3.00	
	For >500 To 1,000, Deduct	-4.78	
	For >1,000, Deduct	-6.56	
	For 316 Stainless Steel, Add	70.24	
	For Aluminum, Add	3.95	
	For Galvanized Steel, Add	13.61	
	For 304 Stainless Steel, Add	62.56	
05 12 23 00-0562	LF C8 x 11.5 - 8" Wide Channel.....	35.07	13.46
	For >100 To 250, Deduct	-1.35	
	For >250 To 500, Deduct	-2.22	
	For >500 To 1,000, Deduct	-3.55	
	For >1,000, Deduct	-4.87	
	For 316 Stainless Steel, Add	54.78	
	For Aluminum, Add	3.08	
	For Galvanized Steel, Add	10.61	
	For 304 Stainless Steel, Add	48.79	
05 12 23 00-0563	LF C8 x 13.75 - 8" Wide Channel.....	41.93	16.10
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.66	
	For >500 To 1,000, Deduct	-4.24	
	For >1,000, Deduct	-5.83	
	For 316 Stainless Steel, Add	65.50	
	For Aluminum, Add	3.68	
	For Galvanized Steel, Add	12.69	
	For 304 Stainless Steel, Add	58.34	
05 12 23 00-0564	LF C8 x 18.75 - 8" Wide Channel.....	57.16	21.94
	For >100 To 250, Deduct	-2.19	
	For >250 To 500, Deduct	-3.62	
	For >500 To 1,000, Deduct	-5.78	
	For >1,000, Deduct	-7.94	
	For 316 Stainless Steel, Add	89.31	
	For Aluminum, Add	5.02	
	For Galvanized Steel, Add	17.30	
	For 304 Stainless Steel, Add	79.54	
05 12 23 00-0565	LF C9 x 13.4 - 9" Wide Channel.....	40.86	15.68
	For >100 To 250, Deduct	-1.57	
	For >250 To 500, Deduct	-2.59	
	For >500 To 1,000, Deduct	-4.13	
	For >1,000, Deduct	-5.68	
	For 316 Stainless Steel, Add	63.84	
	For Aluminum, Add	3.59	
	For Galvanized Steel, Add	12.37	
	For 304 Stainless Steel, Add	56.86	
05 12 23 00-0566	LF C9 x 15 - 9" Wide Channel.....	45.73	17.55
	For >100 To 250, Deduct	-1.76	
	For >250 To 500, Deduct	-2.90	
	For >500 To 1,000, Deduct	-4.63	
	For >1,000, Deduct	-6.35	
	For 316 Stainless Steel, Add	71.46	
	For Aluminum, Add	4.02	
	For Galvanized Steel, Add	13.84	
	For 304 Stainless Steel, Add	63.64	
05 12 23 00-0567	LF C9 x 20 - 9" Wide Channel.....	60.99	23.40
	For >100 To 250, Deduct	-2.34	
	For >250 To 500, Deduct	-3.87	
	For >500 To 1,000, Deduct	-6.17	
	For >1,000, Deduct	-8.48	
	For 316 Stainless Steel, Add	95.26	
	For Aluminum, Add	5.36	
	For Galvanized Steel, Add	18.46	
	For 304 Stainless Steel, Add	84.84	
05 12 23 00-0568	LF C10 x 15.3 - 10" Wide Channel.....	46.64	17.90
	For >100 To 250, Deduct	-1.79	
	For >250 To 500, Deduct	-2.96	
	For >500 To 1,000, Deduct	-4.72	
	For >1,000, Deduct	-6.48	
	For 316 Stainless Steel, Add	72.86	
	For Aluminum, Add	4.10	
	For Galvanized Steel, Add	14.12	
	For 304 Stainless Steel, Add	64.89	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0569 LF C10 x 20 - 10" Wide Channel	60.99	23.40
For >100 To 250, Deduct	-2.34	
For >250 To 500, Deduct	-3.87	
For >500 To 1,000, Deduct	-6.17	
For >1,000, Deduct	-8.48	
For 316 Stainless Steel, Add	95.26	
For Aluminum, Add	5.36	
For Galvanized Steel, Add	18.46	
For 304 Stainless Steel, Add	84.84	
05 12 23 00-0570 LF C10 x 25 - 10" Wide Channel	76.22	29.25
For >100 To 250, Deduct	-2.93	
For >250 To 500, Deduct	-4.83	
For >500 To 1,000, Deduct	-7.71	
For >1,000, Deduct	-10.59	
For 316 Stainless Steel, Add	119.07	
For Aluminum, Add	6.70	
For Galvanized Steel, Add	23.07	
For 304 Stainless Steel, Add	106.05	
05 12 23 00-0571 LF C10 x 30 - 10" Wide Channel	91.46	35.11
For >100 To 250, Deduct	-3.51	
For >250 To 500, Deduct	-5.80	
For >500 To 1,000, Deduct	-9.25	
For >1,000, Deduct	-12.71	
For 316 Stainless Steel, Add	142.88	
For Aluminum, Add	8.04	
For Galvanized Steel, Add	27.68	
For 304 Stainless Steel, Add	127.25	
05 12 23 00-0572 LF C12 x 20.7 - 12" Wide Channel	63.11	24.23
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-4.00	
For >500 To 1,000, Deduct	-6.39	
For >1,000, Deduct	-8.77	
For 316 Stainless Steel, Add	98.59	
For Aluminum, Add	5.55	
For Galvanized Steel, Add	19.10	
For 304 Stainless Steel, Add	87.81	
05 12 23 00-0573 LF C12 x 25 - 12" Wide Channel	76.22	29.25
For >100 To 250, Deduct	-2.93	
For >250 To 500, Deduct	-4.83	
For >500 To 1,000, Deduct	-7.71	
For >1,000, Deduct	-10.59	
For 316 Stainless Steel, Add	119.07	
For Aluminum, Add	6.70	
For Galvanized Steel, Add	23.07	
For 304 Stainless Steel, Add	106.05	
05 12 23 00-0574 LF C12 x 30 - 12" Wide Channel	91.46	35.11
For >100 To 250, Deduct	-3.51	
For >250 To 500, Deduct	-5.80	
For >500 To 1,000, Deduct	-9.25	
For >1,000, Deduct	-12.71	
For 316 Stainless Steel, Add	142.88	
For Aluminum, Add	8.04	
For Galvanized Steel, Add	27.68	
For 304 Stainless Steel, Add	127.25	
05 12 23 00-0575 LF C15 x 33.9 - 15" Wide Channel	103.36	39.67
For >100 To 250, Deduct	-3.97	
For >250 To 500, Deduct	-6.55	
For >500 To 1,000, Deduct	-10.46	
For >1,000, Deduct	-14.36	
For 316 Stainless Steel, Add	161.47	
For Aluminum, Add	9.08	
For Galvanized Steel, Add	31.29	
For 304 Stainless Steel, Add	143.81	
05 12 23 00-0576 LF C15 x 40 - 15" Wide Channel	121.95	46.81
For >100 To 250, Deduct	-4.68	
For >250 To 500, Deduct	-7.73	
For >500 To 1,000, Deduct	-12.34	
For >1,000, Deduct	-16.95	
For 316 Stainless Steel, Add	190.53	
For Aluminum, Add	10.72	
For Galvanized Steel, Add	36.91	
For 304 Stainless Steel, Add	169.69	
05 12 23 00-0577 LF C15 x 50 - 15" Wide Channel	152.43	58.51
For >100 To 250, Deduct	-5.85	
For >250 To 500, Deduct	-9.66	
For >500 To 1,000, Deduct	-15.42	
For >1,000, Deduct	-21.18	
For 316 Stainless Steel, Add	238.14	
For Aluminum, Add	13.40	
For Galvanized Steel, Add	46.14	
For 304 Stainless Steel, Add	212.10	

05 12 23 00-0578 Miscellaneous Channels - MC (05 12 23 00-0422)

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0579	LF		MC6 x 12 - 6" Wide Channel.....	37.91	15.04
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-3.90	
			<i>For >1,000, Deduct</i>	-5.35	
			<i>For 316 Stainless Steel, Add</i>	57.15	
			<i>For Aluminum, Add</i>	3.21	
			<i>For Galvanized Steel, Add</i>	11.07	
			<i>For 304 Stainless Steel, Add</i>	50.90	
05 12 23 00-0580	LF		MC6 x 15.1 - 6" Wide Channel.....	47.71	18.92
			<i>For >100 To 250, Deduct</i>	-1.89	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500 To 1,000, Deduct</i>	-4.91	
			<i>For >1,000, Deduct</i>	-6.73	
			<i>For 316 Stainless Steel, Add</i>	71.94	
			<i>For Aluminum, Add</i>	4.05	
			<i>For Galvanized Steel, Add</i>	13.94	
			<i>For 304 Stainless Steel, Add</i>	64.07	
05 12 23 00-0581	LF		MC6 x 15.3 - 6" Wide Channel.....	48.33	19.17
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-3.13	
			<i>For >500 To 1,000, Deduct</i>	-4.97	
			<i>For >1,000, Deduct</i>	-6.82	
			<i>For 316 Stainless Steel, Add</i>	72.86	
			<i>For Aluminum, Add</i>	4.10	
			<i>For Galvanized Steel, Add</i>	14.12	
			<i>For 304 Stainless Steel, Add</i>	64.89	
05 12 23 00-0582	LF		MC6 x 16.3 - 6" Wide Channel.....	51.50	20.43
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-3.33	
			<i>For >500 To 1,000, Deduct</i>	-5.30	
			<i>For >1,000, Deduct</i>	-7.27	
			<i>For 316 Stainless Steel, Add</i>	77.63	
			<i>For Aluminum, Add</i>	4.37	
			<i>For Galvanized Steel, Add</i>	15.04	
			<i>For 304 Stainless Steel, Add</i>	69.14	
05 12 23 00-0583	LF		MC6 x 18 - 6" Wide Channel.....	56.87	22.55
			<i>For >100 To 250, Deduct</i>	-2.26	
			<i>For >250 To 500, Deduct</i>	-3.68	
			<i>For >500 To 1,000, Deduct</i>	-5.85	
			<i>For >1,000, Deduct</i>	-8.03	
			<i>For 316 Stainless Steel, Add</i>	85.73	
			<i>For Aluminum, Add</i>	4.82	
			<i>For Galvanized Steel, Add</i>	16.61	
			<i>For 304 Stainless Steel, Add</i>	76.35	
05 12 23 00-0584	LF		MC7 x 17.6 - 7" Wide Channel.....	55.49	21.97
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-3.58	
			<i>For >500 To 1,000, Deduct</i>	-5.70	
			<i>For >1,000, Deduct</i>	-7.82	
			<i>For 316 Stainless Steel, Add</i>	83.84	
			<i>For Aluminum, Add</i>	4.72	
			<i>For Galvanized Steel, Add</i>	16.24	
			<i>For 304 Stainless Steel, Add</i>	74.67	
05 12 23 00-0585	LF		MC7 x 19.1 - 7" Wide Channel.....	60.23	23.84
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-3.89	
			<i>For >500 To 1,000, Deduct</i>	-6.19	
			<i>For >1,000, Deduct</i>	-8.49	
			<i>For 316 Stainless Steel, Add</i>	90.98	
			<i>For Aluminum, Add</i>	5.12	
			<i>For Galvanized Steel, Add</i>	17.63	
			<i>For 304 Stainless Steel, Add</i>	81.03	
05 12 23 00-0586	LF		MC7 x 22.7 - 7" Wide Channel.....	71.58	28.34
			<i>For >100 To 250, Deduct</i>	-2.83	
			<i>For >250 To 500, Deduct</i>	-4.62	
			<i>For >500 To 1,000, Deduct</i>	-7.36	
			<i>For >1,000, Deduct</i>	-10.09	
			<i>For 316 Stainless Steel, Add</i>	108.13	
			<i>For Aluminum, Add</i>	6.08	
			<i>For Galvanized Steel, Add</i>	20.95	
			<i>For 304 Stainless Steel, Add</i>	96.30	
05 12 23 00-0587	LF		MC8 x 8.5 - 8" Wide Channel.....	25.92	9.95
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.64	
			<i>For >500 To 1,000, Deduct</i>	-2.62	
			<i>For >1,000, Deduct</i>	-3.60	
			<i>For 316 Stainless Steel, Add</i>	40.48	
			<i>For Aluminum, Add</i>	2.28	
			<i>For Galvanized Steel, Add</i>	7.84	
			<i>For 304 Stainless Steel, Add</i>	36.05	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0588 LF MC8 x 18.7 - 8" Wide Channel	57.00	21.88
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-3.61	
For >500 To 1,000, Deduct	-5.77	
For >1,000, Deduct	-7.92	
For 316 Stainless Steel, Add	89.06	
For Aluminum, Add	5.01	
For Galvanized Steel, Add	17.25	
For 304 Stainless Steel, Add	79.32	
05 12 23 00-0589 LF MC8 x 20 - 8" Wide Channel	60.99	23.40
For >100 To 250, Deduct	-2.34	
For >250 To 500, Deduct	-3.87	
For >500 To 1,000, Deduct	-6.17	
For >1,000, Deduct	-8.48	
For 316 Stainless Steel, Add	95.26	
For Aluminum, Add	5.36	
For Galvanized Steel, Add	18.46	
For 304 Stainless Steel, Add	84.84	
05 12 23 00-0590 LF MC8 x 21.4 - 8" Wide Channel	65.25	25.05
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-4.14	
For >500 To 1,000, Deduct	-6.60	
For >1,000, Deduct	-9.07	
For 316 Stainless Steel, Add	101.92	
For Aluminum, Add	5.73	
For Galvanized Steel, Add	19.75	
For 304 Stainless Steel, Add	90.77	
05 12 23 00-0591 LF MC8 x 22.8 - 8" Wide Channel	69.51	26.69
For >100 To 250, Deduct	-2.67	
For >250 To 500, Deduct	-4.41	
For >500 To 1,000, Deduct	-7.03	
For >1,000, Deduct	-9.66	
For 316 Stainless Steel, Add	108.61	
For Aluminum, Add	6.11	
For Galvanized Steel, Add	21.04	
For 304 Stainless Steel, Add	96.73	
05 12 23 00-0592 LF MC9 x 23.9 - 9" Wide Channel	72.86	27.97
For >100 To 250, Deduct	-2.80	
For >250 To 500, Deduct	-4.62	
For >500 To 1,000, Deduct	-7.37	
For >1,000, Deduct	-10.13	
For 316 Stainless Steel, Add	113.82	
For Aluminum, Add	6.40	
For Galvanized Steel, Add	22.05	
For 304 Stainless Steel, Add	101.37	
05 12 23 00-0593 LF MC9 x 25.4 - 9" Wide Channel	77.44	29.72
For >100 To 250, Deduct	-2.97	
For >250 To 500, Deduct	-4.91	
For >500 To 1,000, Deduct	-7.84	
For >1,000, Deduct	-10.76	
For 316 Stainless Steel, Add	120.99	
For Aluminum, Add	6.81	
For Galvanized Steel, Add	23.44	
For 304 Stainless Steel, Add	107.76	
05 12 23 00-0594 LF MC10 x 6.5 - 10" Wide Channel	19.81	7.60
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.00	
For >1,000, Deduct	-2.75	
For 316 Stainless Steel, Add	30.94	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	6.00	
For 304 Stainless Steel, Add	27.56	
05 12 23 00-0595 LF MC10 x 8.4 - 10" Wide Channel	25.61	9.83
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.62	
For >500 To 1,000, Deduct	-2.59	
For >1,000, Deduct	-3.56	
For 316 Stainless Steel, Add	40.00	
For Aluminum, Add	2.25	
For Galvanized Steel, Add	7.75	
For 304 Stainless Steel, Add	35.63	
05 12 23 00-0596 LF MC10 x 21.9 - 10" Wide Channel	66.77	25.63
For >100 To 250, Deduct	-2.56	
For >250 To 500, Deduct	-4.23	
For >500 To 1,000, Deduct	-6.76	
For >1,000, Deduct	-9.28	
For 316 Stainless Steel, Add	104.32	
For Aluminum, Add	5.87	
For Galvanized Steel, Add	20.21	
For 304 Stainless Steel, Add	92.91	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0597	LF		MC10 x 24.9 - 10" Wide Channel.....	75.92	29.14
			For >100 To 250, Deduct	-2.91	
			For >250 To 500, Deduct	-4.81	
			For >500 To 1,000, Deduct	-7.68	
			For >1,000, Deduct	-10.55	
			For 316 Stainless Steel, Add	118.59	
			For Aluminum, Add	6.67	
			For Galvanized Steel, Add	22.98	
			For 304 Stainless Steel, Add	105.62	
05 12 23 00-0598	LF		MC10 x 25.3 - 10" Wide Channel.....	77.14	29.61
			For >100 To 250, Deduct	-2.96	
			For >250 To 500, Deduct	-4.89	
			For >500 To 1,000, Deduct	-7.81	
			For >1,000, Deduct	-10.72	
			For 316 Stainless Steel, Add	120.51	
			For Aluminum, Add	6.78	
			For Galvanized Steel, Add	23.35	
			For 304 Stainless Steel, Add	107.33	
05 12 23 00-0599	LF		MC10 x 28.3 - 10" Wide Channel.....	86.28	33.12
			For >100 To 250, Deduct	-3.31	
			For >250 To 500, Deduct	-5.47	
			For >500 To 1,000, Deduct	-8.73	
			For >1,000, Deduct	-11.99	
			For 316 Stainless Steel, Add	134.78	
			For Aluminum, Add	7.58	
			For Galvanized Steel, Add	26.11	
			For 304 Stainless Steel, Add	120.04	
05 12 23 00-0600	LF		MC10 x 28.5 - 10" Wide Channel.....	86.89	33.35
			For >100 To 250, Deduct	-3.34	
			For >250 To 500, Deduct	-5.51	
			For >500 To 1,000, Deduct	-8.79	
			For >1,000, Deduct	-12.08	
			For 316 Stainless Steel, Add	135.74	
			For Aluminum, Add	7.64	
			For Galvanized Steel, Add	26.30	
			For 304 Stainless Steel, Add	120.90	
05 12 23 00-0601	LF		MC10 x 33.6 - 10" Wide Channel.....	102.44	39.33
			For >100 To 250, Deduct	-3.93	
			For >250 To 500, Deduct	-6.49	
			For >500 To 1,000, Deduct	-10.37	
			For >1,000, Deduct	-14.24	
			For 316 Stainless Steel, Add	160.03	
			For Aluminum, Add	9.00	
			For Galvanized Steel, Add	31.01	
			For 304 Stainless Steel, Add	142.53	
05 12 23 00-0602	LF		MC10 x 41.1 - 10" Wide Channel.....	125.31	48.10
			For >100 To 250, Deduct	-4.81	
			For >250 To 500, Deduct	-7.94	
			For >500 To 1,000, Deduct	-12.68	
			For >1,000, Deduct	-17.41	
			For 316 Stainless Steel, Add	195.78	
			For Aluminum, Add	11.01	
			For Galvanized Steel, Add	37.93	
			For 304 Stainless Steel, Add	174.36	
05 12 23 00-0603	LF		MC12 x 30.9 - 12" Wide Channel.....	94.21	36.16
			For >100 To 250, Deduct	-3.62	
			For >250 To 500, Deduct	-5.97	
			For >500 To 1,000, Deduct	-9.53	
			For >1,000, Deduct	-13.09	
			For 316 Stainless Steel, Add	147.17	
			For Aluminum, Add	8.28	
			For Galvanized Steel, Add	28.51	
			For 304 Stainless Steel, Add	131.07	
05 12 23 00-0604	LF		MC12 x 32.9 - 12" Wide Channel.....	100.31	38.50
			For >100 To 250, Deduct	-3.85	
			For >250 To 500, Deduct	-6.36	
			For >500 To 1,000, Deduct	-10.15	
			For >1,000, Deduct	-13.94	
			For 316 Stainless Steel, Add	156.70	
			For Aluminum, Add	8.81	
			For Galvanized Steel, Add	30.36	
			For 304 Stainless Steel, Add	139.56	
05 12 23 00-0605	LF		MC12 x 35 - 12" Wide Channel.....	106.72	40.95
			For >100 To 250, Deduct	-4.10	
			For >250 To 500, Deduct	-6.76	
			For >500 To 1,000, Deduct	-10.80	
			For >1,000, Deduct	-14.83	
			For 316 Stainless Steel, Add	166.72	
			For Aluminum, Add	9.38	
			For Galvanized Steel, Add	32.30	
			For 304 Stainless Steel, Add	148.49	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0606 LF MC12 x 37 - 12" Wide Channel	112.81	43.30
For >100 To 250, Deduct	-4.33	
For >250 To 500, Deduct	-7.15	
For >500 To 1,000, Deduct	-11.41	
For >1,000, Deduct	-15.68	
For 316 Stainless Steel, Add	176.22	
For Aluminum, Add	9.91	
For Galvanized Steel, Add	34.14	
For 304 Stainless Steel, Add	156.95	
05 12 23 00-0607 LF MC12 x 40 - 12" Wide Channel	121.95	46.81
For >100 To 250, Deduct	-4.68	
For >250 To 500, Deduct	-7.73	
For >500 To 1,000, Deduct	-12.34	
For >1,000, Deduct	-16.95	
For 316 Stainless Steel, Add	190.53	
For Aluminum, Add	10.72	
For Galvanized Steel, Add	36.91	
For 304 Stainless Steel, Add	169.69	
05 12 23 00-0608 LF MC12 x 45 - 12" Wide Channel	137.20	52.66
For >100 To 250, Deduct	-5.27	
For >250 To 500, Deduct	-8.70	
For >500 To 1,000, Deduct	-13.88	
For >1,000, Deduct	-19.07	
For 316 Stainless Steel, Add	214.34	
For Aluminum, Add	12.06	
For Galvanized Steel, Add	41.53	
For 304 Stainless Steel, Add	190.89	
05 12 23 00-0609 LF MC12 x 50 - 12" Wide Channel	152.43	58.52
For >100 To 250, Deduct	-5.85	
For >250 To 500, Deduct	-9.66	
For >500 To 1,000, Deduct	-15.42	
For >1,000, Deduct	-21.18	
For 316 Stainless Steel, Add	238.14	
For Aluminum, Add	13.40	
For Galvanized Steel, Add	46.14	
For 304 Stainless Steel, Add	212.10	
05 12 23 00-0610 LF MC13 x 31.8 - 13" Wide Channel	96.95	37.21
For >100 To 250, Deduct	-3.72	
For >250 To 500, Deduct	-6.15	
For >500 To 1,000, Deduct	-9.81	
For >1,000, Deduct	-13.47	
For 316 Stainless Steel, Add	151.46	
For Aluminum, Add	8.52	
For Galvanized Steel, Add	29.34	
For 304 Stainless Steel, Add	134.89	
05 12 23 00-0611 LF MC13 x 35 - 13" Wide Channel	106.72	40.95
For >100 To 250, Deduct	-4.10	
For >250 To 500, Deduct	-6.76	
For >500 To 1,000, Deduct	-10.80	
For >1,000, Deduct	-14.83	
For 316 Stainless Steel, Add	166.72	
For Aluminum, Add	9.38	
For Galvanized Steel, Add	32.30	
For 304 Stainless Steel, Add	148.49	
05 12 23 00-0612 LF MC13 x 40 - 13" Wide Channel	121.95	46.81
For >100 To 250, Deduct	-4.68	
For >250 To 500, Deduct	-7.73	
For >500 To 1,000, Deduct	-12.34	
For >1,000, Deduct	-16.95	
For 316 Stainless Steel, Add	190.53	
For Aluminum, Add	10.72	
For Galvanized Steel, Add	36.91	
For 304 Stainless Steel, Add	169.69	
05 12 23 00-0613 LF MC13 x 50 - 13" Wide Channel	152.43	58.52
For >100 To 250, Deduct	-5.85	
For >250 To 500, Deduct	-9.66	
For >500 To 1,000, Deduct	-15.42	
For >1,000, Deduct	-21.18	
For 316 Stainless Steel, Add	238.14	
For Aluminum, Add	13.40	
For Galvanized Steel, Add	46.14	
For 304 Stainless Steel, Add	212.10	
05 12 23 00-0614 LF MC18 x 42.7 - 18" Wide Channel	130.19	49.97
For >100 To 250, Deduct	-5.00	
For >250 To 500, Deduct	-8.25	
For >500 To 1,000, Deduct	-13.17	
For >1,000, Deduct	-18.09	
For 316 Stainless Steel, Add	203.39	
For Aluminum, Add	11.44	
For Galvanized Steel, Add	39.41	
For 304 Stainless Steel, Add	181.15	

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



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0615 LF MC18 x 45.8 - 18" Wide Channel.....	139.63	53.60
For >100 To 250, Deduct	-5.36	
For >250 To 500, Deduct	-8.85	
For >500 To 1,000, Deduct	-14.13	
For >1,000, Deduct	-19.40	
For 316 Stainless Steel, Add	218.14	
For Aluminum, Add	12.27	
For Galvanized Steel, Add	42.27	
For 304 Stainless Steel, Add	194.28	
05 12 23 00-0616 LF MC18 x 51.9 - 18" Wide Channel.....	158.24	60.73
For >100 To 250, Deduct	-6.07	
For >250 To 500, Deduct	-10.03	
For >500 To 1,000, Deduct	-16.01	
For >1,000, Deduct	-21.99	
For 316 Stainless Steel, Add	247.20	
For Aluminum, Add	13.91	
For Galvanized Steel, Add	47.90	
For 304 Stainless Steel, Add	220.16	
05 12 23 00-0617 LF MC18 x 58 - 18" Wide Channel.....	176.83	67.87
For >100 To 250, Deduct	-6.79	
For >250 To 500, Deduct	-11.21	
For >500 To 1,000, Deduct	-17.89	
For >1,000, Deduct	-24.57	
For 316 Stainless Steel, Add	276.26	
For Aluminum, Add	15.54	
For Galvanized Steel, Add	53.52	
For 304 Stainless Steel, Add	246.04	
05 12 23 00-0618 Structural Bar Tees (05 12 23 00-0422)		
05 12 23 00-0619 LF 3/4" x 3/4" x 1/8" Structural Bar Tee	5.35	3.11
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.92	
For 316 Stainless Steel, Add	3.84	
For Aluminum, Add	0.22	
For Galvanized Steel, Add	0.74	
For 304 Stainless Steel, Add	3.42	
05 12 23 00-0620 LF 1" x 1" x 1/8" Structural Bar Tee	6.54	3.67
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-0.82	
For >1,000, Deduct	-1.10	
For 316 Stainless Steel, Add	5.28	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.02	
For 304 Stainless Steel, Add	4.70	
05 12 23 00-0621 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.37	4.24
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.48	
For 316 Stainless Steel, Add	15.10	
For Aluminum, Add	0.85	
For Galvanized Steel, Add	2.93	
For 304 Stainless Steel, Add	13.45	
05 12 23 00-0622 LF 2" x 2" x 1/4" Structural Bar Tee	14.42	5.54
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.46	
For >1,000, Deduct	-2.01	
For 316 Stainless Steel, Add	22.50	
For Aluminum, Add	1.27	
For Galvanized Steel, Add	4.36	
For 304 Stainless Steel, Add	20.04	
05 12 23 00-0623 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	21.54	6.68
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.21	
For >500 To 1,000, Deduct	-1.97	
For >1,000, Deduct	-2.73	
For 316 Stainless Steel, Add	40.38	
For Aluminum, Add	2.27	
For Galvanized Steel, Add	7.82	
For 304 Stainless Steel, Add	35.97	
05 12 23 00-0624 LF 3" x 3" x 3/8" Structural Bar Tee	26.57	8.56
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.52	
For >500 To 1,000, Deduct	-2.47	
For >1,000, Deduct	-3.42	
For 316 Stainless Steel, Add	48.48	
For Aluminum, Add	2.73	
For Galvanized Steel, Add	9.39	
For 304 Stainless Steel, Add	43.18	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0625 Structural Zees <small>(05 12 23 00-0422)</small>		
05 12 23 00-0626 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	12.69	4.24
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.20	
For >1,000, Deduct	-1.66	
For 316 Stainless Steel, Add	22.53	
For Aluminum, Add	1.27	
For Galvanized Steel, Add	4.36	
For 304 Stainless Steel, Add	20.06	
05 12 23 00-0627 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	23.58	5.06
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.10	
For >500 To 1,000, Deduct	-1.85	
For >1,000, Deduct	-2.61	
For 316 Stainless Steel, Add	53.89	
For Aluminum, Add	3.03	
For Galvanized Steel, Add	10.44	
For 304 Stainless Steel, Add	47.99	
05 12 23 00-0628 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	28.22	5.71
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.17	
For >1,000, Deduct	-3.07	
For 316 Stainless Steel, Add	65.95	
For Aluminum, Add	3.71	
For Galvanized Steel, Add	12.78	
For 304 Stainless Steel, Add	58.74	
05 12 23 00-0629 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	37.85	6.52
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.60	
For >500 To 1,000, Deduct	-2.76	
For >1,000, Deduct	-3.93	
For 316 Stainless Steel, Add	93.28	
For Aluminum, Add	5.25	
For Galvanized Steel, Add	18.07	
For 304 Stainless Steel, Add	83.08	
05 12 23 00-0630 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	48.92	7.10
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.93	
For >500 To 1,000, Deduct	-3.39	
For >1,000, Deduct	-4.85	
For 316 Stainless Steel, Add	126.27	
For Aluminum, Add	7.10	
For Galvanized Steel, Add	24.47	
For 304 Stainless Steel, Add	112.46	
05 12 23 00-0631 Junior I-Beams <small>(05 12 23 00-0422)</small>		
05 12 23 00-0632 LF 3" Junior I-Beam, 2.9 LB/LF.....	17.44	6.12
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-1.69	
For >1,000, Deduct	-2.33	
For 316 Stainless Steel, Add	29.70	
For Aluminum, Add	1.67	
For Galvanized Steel, Add	5.75	
For 304 Stainless Steel, Add	26.45	
05 12 23 00-0633 LF 4" Junior I-Beam, 3.2 LB/LF.....	19.16	6.68
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.15	
For >500 To 1,000, Deduct	-1.85	
For >1,000, Deduct	-2.55	
For 316 Stainless Steel, Add	32.77	
For Aluminum, Add	1.84	
For Galvanized Steel, Add	6.35	
For 304 Stainless Steel, Add	29.18	
05 12 23 00-0634 LF 5" Junior I-Beam, 3.8 LB/LF.....	21.94	7.34
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-2.08	
For >1,000, Deduct	-2.87	
For 316 Stainless Steel, Add	38.88	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.53	
For 304 Stainless Steel, Add	34.63	
05 12 23 00-0635 LF 6" Junior I-Beam, 4.4 LB/LF.....	24.73	7.99
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.42	
For >500 To 1,000, Deduct	-2.30	
For >1,000, Deduct	-3.19	
For 316 Stainless Steel, Add	45.02	
For Aluminum, Add	2.53	
For Galvanized Steel, Add	8.72	
For 304 Stainless Steel, Add	40.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0636	LF		7" Junior I-Beam, 5.5 LB/LF	29.01	8.56
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.59	
			<i>For >1,000, Deduct</i>	-3.60	
			<i>For 316 Stainless Steel, Add</i>	56.29	
			<i>For Aluminum, Add</i>	3.17	
			<i>For Galvanized Steel, Add</i>	10.91	
			<i>For 304 Stainless Steel, Add</i>	50.13	
05 12 23 00-0637	LF		8" Junior I-Beam, 6.5 LB/LF	32.97	9.13
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500 To 1,000, Deduct</i>	-2.87	
			<i>For >1,000, Deduct</i>	-4.00	
			<i>For 316 Stainless Steel, Add</i>	66.53	
			<i>For Aluminum, Add</i>	3.74	
			<i>For Galvanized Steel, Add</i>	12.89	
			<i>For 304 Stainless Steel, Add</i>	59.25	
05 12 23 00-0638	LF		10" Junior I-Beam, 9 LB/LF	42.71	10.44
			<i>For >100 To 250, Deduct</i>	-1.04	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500 To 1,000, Deduct</i>	-3.53	
			<i>For >1,000, Deduct</i>	-4.94	
			<i>For 316 Stainless Steel, Add</i>	92.13	
			<i>For Aluminum, Add</i>	5.18	
			<i>For Galvanized Steel, Add</i>	17.85	
			<i>For 304 Stainless Steel, Add</i>	82.05	
05 12 23 00-0639	LF		12" Junior I-Beam, 11.8 LB/LF	54.27	12.40
			<i>For >100 To 250, Deduct</i>	-1.24	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-6.14	
			<i>For 316 Stainless Steel, Add</i>	120.77	
			<i>For Aluminum, Add</i>	6.79	
			<i>For Galvanized Steel, Add</i>	23.40	
			<i>For 304 Stainless Steel, Add</i>	107.56	
05 12 23 00-0640			Round Stock <small>(05 12 23 00-0422)</small>		
05 12 23 00-0641	LF		1/4" Carbon Steel Rounds, ASTM A108	2.62	
			<i>For 316 Stainless Steel, Add</i>	4.90	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.95	
			<i>For 304 Stainless Steel, Add</i>	4.36	
05 12 23 00-0642	LF		3/8" Carbon Steel Rounds, ASTM A108	4.25	
			<i>For 316 Stainless Steel, Add</i>	9.66	
			<i>For Aluminum, Add</i>	0.54	
			<i>For Galvanized Steel, Add</i>	1.87	
			<i>For 304 Stainless Steel, Add</i>	8.61	
05 12 23 00-0643	LF		1/2" Carbon Steel Rounds, ASTM A108	5.95	
			<i>For 316 Stainless Steel, Add</i>	14.69	
			<i>For Aluminum, Add</i>	0.83	
			<i>For Galvanized Steel, Add</i>	2.85	
			<i>For 304 Stainless Steel, Add</i>	13.08	
05 12 23 00-0644	LF		5/8" Carbon Steel Rounds, ASTM A108	9.17	
			<i>For 316 Stainless Steel, Add</i>	24.51	
			<i>For Aluminum, Add</i>	1.38	
			<i>For Galvanized Steel, Add</i>	4.75	
			<i>For 304 Stainless Steel, Add</i>	21.83	
05 12 23 00-0645	LF		3/4" Carbon Steel Rounds, ASTM A108	10.90	
			<i>For 316 Stainless Steel, Add</i>	29.09	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.91	
05 12 23 00-0646	LF		7/8" Carbon Steel Rounds, ASTM A108	12.72	
			<i>For 316 Stainless Steel, Add</i>	34.02	
			<i>For Aluminum, Add</i>	1.91	
			<i>For Galvanized Steel, Add</i>	6.59	
			<i>For 304 Stainless Steel, Add</i>	30.30	
05 12 23 00-0647	LF		1" Carbon Steel Rounds, ASTM A108	18.66	
			<i>For 316 Stainless Steel, Add</i>	51.81	
			<i>For Aluminum, Add</i>	2.91	
			<i>For Galvanized Steel, Add</i>	10.04	
			<i>For 304 Stainless Steel, Add</i>	46.14	
05 12 23 00-0648	LF		1-1/8" Carbon Steel Rounds, ASTM A108	22.69	
			<i>For 316 Stainless Steel, Add</i>	62.94	
			<i>For Aluminum, Add</i>	3.54	
			<i>For Galvanized Steel, Add</i>	12.20	
			<i>For 304 Stainless Steel, Add</i>	56.06	
05 12 23 00-0649	LF		1-1/4" Carbon Steel Rounds, ASTM A108	27.03	
			<i>For 316 Stainless Steel, Add</i>	74.08	
			<i>For Aluminum, Add</i>	4.17	
			<i>For Galvanized Steel, Add</i>	14.35	
			<i>For 304 Stainless Steel, Add</i>	65.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0650 LF 1-3/8" Carbon Steel Rounds, ASTM A108.....	32.79	
<i>For 316 Stainless Steel, Add</i>	90.43	
<i>For Aluminum, Add</i>	5.09	
<i>For Galvanized Steel, Add</i>	17.52	
<i>For 304 Stainless Steel, Add</i>	80.54	
05 12 23 00-0651 LF 1-1/2" Carbon Steel Rounds, ASTM A108.....	36.43	
<i>For 316 Stainless Steel, Add</i>	99.17	
<i>For Aluminum, Add</i>	5.58	
<i>For Galvanized Steel, Add</i>	19.21	
<i>For 304 Stainless Steel, Add</i>	88.32	
05 12 23 00-0652 LF 1-5/8" Carbon Steel Rounds, ASTM A108.....	41.92	
<i>For 316 Stainless Steel, Add</i>	112.38	
<i>For Aluminum, Add</i>	6.32	
<i>For Galvanized Steel, Add</i>	21.77	
<i>For 304 Stainless Steel, Add</i>	100.09	
05 12 23 00-0653 LF 1-3/4" Carbon Steel Rounds, ASTM A108.....	49.94	
<i>For 316 Stainless Steel, Add</i>	130.82	
<i>For Aluminum, Add</i>	7.36	
<i>For Galvanized Steel, Add</i>	25.35	
<i>For 304 Stainless Steel, Add</i>	116.51	
05 12 23 00-0654 LF 1-7/8" Carbon Steel Rounds, ASTM A108.....	59.84	
<i>For 316 Stainless Steel, Add</i>	153.22	
<i>For Aluminum, Add</i>	8.62	
<i>For Galvanized Steel, Add</i>	29.69	
<i>For 304 Stainless Steel, Add</i>	136.46	
05 12 23 00-0655 LF 2" Carbon Steel Rounds, ASTM A108.....	68.06	
<i>For 316 Stainless Steel, Add</i>	170.43	
<i>For Aluminum, Add</i>	9.59	
<i>For Galvanized Steel, Add</i>	33.02	
<i>For 304 Stainless Steel, Add</i>	151.79	
05 12 23 00-0656 LF 2-1/8" Carbon Steel Rounds, ASTM A108.....	79.22	
<i>For 316 Stainless Steel, Add</i>	194.66	
<i>For Aluminum, Add</i>	10.95	
<i>For Galvanized Steel, Add</i>	37.71	
<i>For 304 Stainless Steel, Add</i>	173.37	
05 12 23 00-0657 LF 2-1/4" Carbon Steel Rounds, ASTM A108.....	89.53	
<i>For 316 Stainless Steel, Add</i>	218.85	
<i>For Aluminum, Add</i>	12.31	
<i>For Galvanized Steel, Add</i>	42.40	
<i>For 304 Stainless Steel, Add</i>	194.91	
05 12 23 00-0658 LF 2-3/8" Carbon Steel Rounds, ASTM A108.....	102.54	
<i>For 316 Stainless Steel, Add</i>	250.34	
<i>For Aluminum, Add</i>	14.08	
<i>For Galvanized Steel, Add</i>	48.50	
<i>For 304 Stainless Steel, Add</i>	222.96	
05 12 23 00-0659 LF 2-1/2" Carbon Steel Rounds, ASTM A108.....	112.86	
<i>For 316 Stainless Steel, Add</i>	269.79	
<i>For Aluminum, Add</i>	15.18	
<i>For Galvanized Steel, Add</i>	52.27	
<i>For 304 Stainless Steel, Add</i>	240.28	
05 12 23 00-0660 LF 2-5/8" Carbon Steel Rounds, ASTM A108.....	138.80	
<i>For 316 Stainless Steel, Add</i>	342.69	
<i>For Aluminum, Add</i>	19.28	
<i>For Galvanized Steel, Add</i>	66.40	
<i>For 304 Stainless Steel, Add</i>	305.21	
05 12 23 00-0661 LF 2-3/4" Carbon Steel Rounds, ASTM A108.....	158.07	
<i>For 316 Stainless Steel, Add</i>	390.78	
<i>For Aluminum, Add</i>	21.98	
<i>For Galvanized Steel, Add</i>	75.71	
<i>For 304 Stainless Steel, Add</i>	348.04	
05 12 23 00-0662 LF 2-7/8 Carbon Steel Rounds, ASTM A108.....	176.27	
<i>For 316 Stainless Steel, Add</i>	435.49	
<i>For Aluminum, Add</i>	24.50	
<i>For Galvanized Steel, Add</i>	84.38	
<i>For 304 Stainless Steel, Add</i>	387.86	
05 12 23 00-0663 LF 3" Carbon Steel Rounds, ASTM A108.....	184.58	
<i>For 316 Stainless Steel, Add</i>	448.54	
<i>For Aluminum, Add</i>	25.23	
<i>For Galvanized Steel, Add</i>	86.91	
<i>For 304 Stainless Steel, Add</i>	399.48	
05 12 23 00-0664 LF 3-1/8" Carbon Steel Rounds, ASTM A108.....	191.91	
<i>For 316 Stainless Steel, Add</i>	458.50	
<i>For Aluminum, Add</i>	25.79	
<i>For Galvanized Steel, Add</i>	88.83	
<i>For 304 Stainless Steel, Add</i>	408.35	
05 12 23 00-0665 LF 3-1/4" Carbon Steel Rounds, ASTM A108.....	201.98	
<i>For 316 Stainless Steel, Add</i>	477.18	
<i>For Aluminum, Add</i>	26.84	
<i>For Galvanized Steel, Add</i>	92.45	
<i>For 304 Stainless Steel, Add</i>	424.99	
05 12 23 00-0666 LF 3-1/2" Carbon Steel Rounds, ASTM A108.....	247.37	
<i>For 316 Stainless Steel, Add</i>	605.47	
<i>For Aluminum, Add</i>	34.06	
<i>For Galvanized Steel, Add</i>	117.31	
<i>For 304 Stainless Steel, Add</i>	539.25	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0667	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	275.11	
			<i>For 316 Stainless Steel, Add</i>	677.34	
			<i>For Aluminum, Add</i>	38.10	
			<i>For Galvanized Steel, Add</i>	131.24	
			<i>For 304 Stainless Steel, Add</i>	603.26	
05 12 23 00-0668	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	295.15	
			<i>For 316 Stainless Steel, Add</i>	724.54	
			<i>For Aluminum, Add</i>	40.76	
			<i>For Galvanized Steel, Add</i>	140.38	
			<i>For 304 Stainless Steel, Add</i>	645.30	
05 12 23 00-0669	LF		4" Carbon Steel Rounds, ASTM A108.....	331.80	
			<i>For 316 Stainless Steel, Add</i>	824.93	
			<i>For Aluminum, Add</i>	46.40	
			<i>For Galvanized Steel, Add</i>	159.83	
			<i>For 304 Stainless Steel, Add</i>	734.70	
05 12 23 00-0670			Square Stock (05 12 23 00-0422)		
05 12 23 00-0671	LF		3/8" Square Bar Stock.....	1.94	
			<i>For 316 Stainless Steel, Add</i>	2.27	
			<i>For Aluminum, Add</i>	0.13	
			<i>For Galvanized Steel, Add</i>	0.44	
			<i>For 304 Stainless Steel, Add</i>	2.02	
05 12 23 00-0672	LF		1/2" Square Bar Stock.....	2.62	
			<i>For 316 Stainless Steel, Add</i>	4.03	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.78	
			<i>For 304 Stainless Steel, Add</i>	3.59	
05 12 23 00-0673	LF		5/8" Square Bar Stock.....	3.47	
			<i>For 316 Stainless Steel, Add</i>	6.27	
			<i>For Aluminum, Add</i>	0.35	
			<i>For Galvanized Steel, Add</i>	1.22	
			<i>For 304 Stainless Steel, Add</i>	5.59	
05 12 23 00-0674	LF		3/4" Square Bar Stock.....	4.64	
			<i>For 316 Stainless Steel, Add</i>	9.06	
			<i>For Aluminum, Add</i>	0.51	
			<i>For Galvanized Steel, Add</i>	1.75	
			<i>For 304 Stainless Steel, Add</i>	8.07	
05 12 23 00-0675	LF		7/8" Square Bar Stock.....	6.04	
			<i>For 316 Stainless Steel, Add</i>	12.64	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.45	
			<i>For 304 Stainless Steel, Add</i>	11.26	
05 12 23 00-0676	LF		1" Square Bar Stock.....	7.52	
			<i>For 316 Stainless Steel, Add</i>	16.16	
			<i>For Aluminum, Add</i>	0.91	
			<i>For Galvanized Steel, Add</i>	3.13	
			<i>For 304 Stainless Steel, Add</i>	14.39	
05 12 23 00-0677	LF		1-1/4" Square Bar Stock.....	11.76	
			<i>For 316 Stainless Steel, Add</i>	25.22	
			<i>For Aluminum, Add</i>	1.42	
			<i>For Galvanized Steel, Add</i>	4.89	
			<i>For 304 Stainless Steel, Add</i>	22.46	
05 12 23 00-0678	LF		1-1/2" Square Bar Stock.....	16.79	
			<i>For 316 Stainless Steel, Add</i>	36.32	
			<i>For Aluminum, Add</i>	2.04	
			<i>For Galvanized Steel, Add</i>	7.04	
			<i>For 304 Stainless Steel, Add</i>	32.35	
05 12 23 00-0679	LF		1-3/4" Square Bar Stock.....	24.85	
			<i>For 316 Stainless Steel, Add</i>	50.53	
			<i>For Aluminum, Add</i>	2.84	
			<i>For Galvanized Steel, Add</i>	9.79	
			<i>For 304 Stainless Steel, Add</i>	45.00	
05 12 23 00-0680	LF		2" Square Bar Stock.....	35.43	
			<i>For 316 Stainless Steel, Add</i>	64.64	
			<i>For Aluminum, Add</i>	3.64	
			<i>For Galvanized Steel, Add</i>	12.52	
			<i>For 304 Stainless Steel, Add</i>	57.57	
05 12 23 00-0681			Steel Tubing (05 12 23 00-0422)		
			Note: General purpose low-carbon steel.		
05 12 23 00-0682			Square Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0683			0.06" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0684	LF		1/2" x 1/2" x 0.06" Square Steel Tubing.....	2.64	0.59
			<i>For >100 To 250, Deduct</i>	-0.06	
			<i>For >250 To 500, Deduct</i>	-0.12	
			<i>For >500 To 1,000, Deduct</i>	-0.21	
			<i>For >1,000, Deduct</i>	-0.30	
			<i>For 316 Stainless Steel, Add</i>	5.95	
			<i>For Aluminum, Add</i>	0.33	
			<i>For Galvanized Steel, Add</i>	1.15	
			<i>For 304 Stainless Steel, Add</i>	5.30	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0685 LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....	4.05	0.92
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.32	
For >1,000, Deduct	-0.46	
For 316 Stainless Steel, Add	9.06	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.75	
For 304 Stainless Steel, Add	8.07	
05 12 23 00-0686 LF 1" x 1" x 0.06" Square Steel Tubing.....	5.45	1.67
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.62	
For 316 Stainless Steel, Add	12.10	
For Aluminum, Add	0.68	
For Galvanized Steel, Add	2.34	
For 304 Stainless Steel, Add	10.77	
05 12 23 00-0687 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	7.20	1.59
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.57	
For >1,000, Deduct	-0.80	
For 316 Stainless Steel, Add	16.29	
For Aluminum, Add	0.92	
For Galvanized Steel, Add	3.16	
For 304 Stainless Steel, Add	14.51	
05 12 23 00-0688 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	8.54	1.92
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.96	
For 316 Stainless Steel, Add	19.14	
For Aluminum, Add	1.08	
For Galvanized Steel, Add	3.71	
For 304 Stainless Steel, Add	17.04	
05 12 23 00-0689 0.083" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0690 LF 3/4" x 3/4" x 0.083" Square Steel Tubing.....	4.72	1.07
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.38	
For >1,000, Deduct	-0.53	
For 316 Stainless Steel, Add	10.50	
For Aluminum, Add	0.59	
For Galvanized Steel, Add	2.03	
For 304 Stainless Steel, Add	9.35	
05 12 23 00-0691 LF 1" x 1" x 0.083" Square Steel Tubing.....	6.87	1.48
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.54	
For >1,000, Deduct	-0.76	
For 316 Stainless Steel, Add	15.68	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.04	
For 304 Stainless Steel, Add	13.97	
05 12 23 00-0692 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	8.30	1.88
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.67	
For >1,000, Deduct	-0.94	
For 316 Stainless Steel, Add	18.53	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.59	
For 304 Stainless Steel, Add	16.50	
05 12 23 00-0693 LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	10.03	2.29
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.81	
For >1,000, Deduct	-1.13	
For 316 Stainless Steel, Add	22.37	
For Aluminum, Add	1.26	
For Galvanized Steel, Add	4.33	
For 304 Stainless Steel, Add	19.92	
05 12 23 00-0694 LF 2" x 2" x 0.083" Square Steel Tubing.....	12.85	3.04
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.05	
For >1,000, Deduct	-1.47	
For 316 Stainless Steel, Add	28.13	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.45	
For 304 Stainless Steel, Add	25.05	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0695	0.12" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0696	LF 1" x 1" x 0.12" Square Steel Tubing.....	7.58	1.76
	For >100 To 250, Deduct	-0.18	
	For >250 To 500, Deduct	-0.37	
	For >500 To 1,000, Deduct	-0.61	
	For >1,000, Deduct	-0.86	
	For 316 Stainless Steel, Add	16.74	
	For Aluminum, Add	0.94	
	For Galvanized Steel, Add	3.24	
	For 304 Stainless Steel, Add	14.91	
05 12 23 00-0697	LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	9.76	2.25
	For >100 To 250, Deduct	-0.23	
	For >250 To 500, Deduct	-0.47	
	For >500 To 1,000, Deduct	-0.79	
	For >1,000, Deduct	-1.11	
	For 316 Stainless Steel, Add	21.60	
	For Aluminum, Add	1.22	
	For Galvanized Steel, Add	4.19	
	For 304 Stainless Steel, Add	19.24	
05 12 23 00-0698	LF 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	11.98	2.76
	For >100 To 250, Deduct	-0.28	
	For >250 To 500, Deduct	-0.58	
	For >500 To 1,000, Deduct	-0.97	
	For >1,000, Deduct	-1.36	
	For 316 Stainless Steel, Add	26.56	
	For Aluminum, Add	1.49	
	For Galvanized Steel, Add	5.15	
	For 304 Stainless Steel, Add	23.66	
05 12 23 00-0699	LF 2" x 2" x 0.12" Square Steel Tubing.....	16.21	3.76
	For >100 To 250, Deduct	-0.38	
	For >250 To 500, Deduct	-0.78	
	For >500 To 1,000, Deduct	-1.31	
	For >1,000, Deduct	-1.84	
	For 316 Stainless Steel, Add	35.84	
	For Aluminum, Add	2.02	
	For Galvanized Steel, Add	6.94	
	For 304 Stainless Steel, Add	31.92	
05 12 23 00-0700	1/8" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0701	LF 2" x 2" x 1/8" Square Steel Tubing.....	14.55	3.90
	For >100 To 250, Deduct	-0.39	
	For >250 To 500, Deduct	-0.75	
	For >500 To 1,000, Deduct	-1.25	
	For >1,000, Deduct	-1.74	
	For 316 Stainless Steel, Add	29.89	
	For Aluminum, Add	1.68	
	For Galvanized Steel, Add	5.79	
	For 304 Stainless Steel, Add	26.62	
05 12 23 00-0702	LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	19.20	4.94
	For >100 To 250, Deduct	-0.49	
	For >250 To 500, Deduct	-0.97	
	For >500 To 1,000, Deduct	-1.62	
	For >1,000, Deduct	-2.26	
	For 316 Stainless Steel, Add	40.35	
	For Aluminum, Add	2.27	
	For Galvanized Steel, Add	7.82	
	For 304 Stainless Steel, Add	35.94	
05 12 23 00-0703	LF 3" x 3" x 1/8" Square Steel Tubing.....	22.48	5.99
	For >100 To 250, Deduct	-0.60	
	For >250 To 500, Deduct	-1.16	
	For >500 To 1,000, Deduct	-1.92	
	For >1,000, Deduct	-2.68	
	For 316 Stainless Steel, Add	46.40	
	For Aluminum, Add	2.61	
	For Galvanized Steel, Add	8.99	
	For 304 Stainless Steel, Add	41.33	
05 12 23 00-0704	LF 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	26.03	7.03
	For >100 To 250, Deduct	-0.70	
	For >250 To 500, Deduct	-1.35	
	For >500 To 1,000, Deduct	-2.24	
	For >1,000, Deduct	-3.12	
	For 316 Stainless Steel, Add	53.34	
	For Aluminum, Add	3.00	
	For Galvanized Steel, Add	10.34	
	For 304 Stainless Steel, Add	47.51	
05 12 23 00-0705	LF 4" x 4" x 1/8" Square Steel Tubing.....	28.66	8.07
	For >100 To 250, Deduct	-0.81	
	For >250 To 500, Deduct	-1.52	
	For >500 To 1,000, Deduct	-2.51	
	For >1,000, Deduct	-3.49	
	For 316 Stainless Steel, Add	57.28	
	For Aluminum, Add	3.22	
	For Galvanized Steel, Add	11.10	
	For 304 Stainless Steel, Add	51.02	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0706 3/16" Wall Thickness <small>(05 12 23 00-0682)</small>		
05 12 23 00-0707 LF 2" x 2" x 3/16" Square Steel Tubing.....	16.50	4.41
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.41	
For >1,000, Deduct	-1.97	
For 316 Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	
For 304 Stainless Steel, Add	30.27	
05 12 23 00-0708 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	21.34	5.70
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.10	
For >500 To 1,000, Deduct	-1.83	
For >1,000, Deduct	-2.55	
For 316 Stainless Steel, Add	44.00	
For Aluminum, Add	2.48	
For Galvanized Steel, Add	8.53	
For 304 Stainless Steel, Add	39.19	
05 12 23 00-0709 LF 3" x 3" x 3/16" Square Steel Tubing.....	26.24	7.01
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.14	
For 316 Stainless Steel, Add	54.08	
For Aluminum, Add	3.04	
For Galvanized Steel, Add	10.48	
For 304 Stainless Steel, Add	48.17	
05 12 23 00-0710 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	31.12	8.31
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.72	
For 316 Stainless Steel, Add	64.13	
For Aluminum, Add	3.61	
For Galvanized Steel, Add	12.42	
For 304 Stainless Steel, Add	57.11	
05 12 23 00-0711 LF 4" x 4" x 3/16" Square Steel Tubing.....	35.97	9.61
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.86	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.30	
For 316 Stainless Steel, Add	74.14	
For Aluminum, Add	4.17	
For Galvanized Steel, Add	14.37	
For 304 Stainless Steel, Add	66.03	
05 12 23 00-0712 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	40.85	10.91
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.11	
For >500 To 1,000, Deduct	-3.50	
For >1,000, Deduct	-4.88	
For 316 Stainless Steel, Add	84.19	
For Aluminum, Add	4.74	
For Galvanized Steel, Add	16.31	
For 304 Stainless Steel, Add	74.98	
05 12 23 00-0713 LF 5" x 5" x 3/16" Square Steel Tubing.....	45.71	12.21
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.36	
For >500 To 1,000, Deduct	-3.91	
For >1,000, Deduct	-5.46	
For 316 Stainless Steel, Add	94.21	
For Aluminum, Add	5.30	
For Galvanized Steel, Add	18.25	
For 304 Stainless Steel, Add	83.90	
05 12 23 00-0714 LF 6" x 6" x 3/16" Square Steel Tubing.....	55.48	14.81
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-2.87	
For >500 To 1,000, Deduct	-4.75	
For >1,000, Deduct	-6.63	
For 316 Stainless Steel, Add	114.34	
For Aluminum, Add	6.43	
For Galvanized Steel, Add	22.15	
For 304 Stainless Steel, Add	101.83	

05 12 23 00-0715 1/4" Wall Thickness (05 12 23 00-0682)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0716	LF		2" x 2" x 1/4" Square Steel Tubing.....	17.63	4.41
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500 To 1,000, Deduct</i>	-1.47	
			<i>For >1,000, Deduct</i>	-2.06	
			<i>For 316 Stainless Steel, Add</i>	37.57	
			<i>For Aluminum, Add</i>	2.11	
			<i>For Galvanized Steel, Add</i>	7.28	
			<i>For 304 Stainless Steel, Add</i>	33.46	
05 12 23 00-0717	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	23.17	5.79
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500 To 1,000, Deduct</i>	-1.93	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For 316 Stainless Steel, Add</i>	49.38	
			<i>For Aluminum, Add</i>	2.78	
			<i>For Galvanized Steel, Add</i>	9.57	
			<i>For 304 Stainless Steel, Add</i>	43.98	
05 12 23 00-0718	LF		3" x 3" x 1/4" Square Steel Tubing.....	28.70	7.19
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.44	
			<i>For >500 To 1,000, Deduct</i>	-2.39	
			<i>For >1,000, Deduct</i>	-3.35	
			<i>For 316 Stainless Steel, Add</i>	61.18	
			<i>For Aluminum, Add</i>	3.44	
			<i>For Galvanized Steel, Add</i>	11.85	
			<i>For 304 Stainless Steel, Add</i>	54.49	
05 12 23 00-0719	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	34.24	8.58
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.71	
			<i>For >500 To 1,000, Deduct</i>	-2.86	
			<i>For >1,000, Deduct</i>	-4.00	
			<i>For 316 Stainless Steel, Add</i>	72.99	
			<i>For Aluminum, Add</i>	4.11	
			<i>For Galvanized Steel, Add</i>	14.14	
			<i>For 304 Stainless Steel, Add</i>	65.01	
05 12 23 00-0720	LF		4" x 4" x 1/4" Square Steel Tubing.....	39.78	9.96
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.99	
			<i>For >500 To 1,000, Deduct</i>	-3.32	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For 316 Stainless Steel, Add</i>	84.80	
			<i>For Aluminum, Add</i>	4.77	
			<i>For Galvanized Steel, Add</i>	16.43	
			<i>For 304 Stainless Steel, Add</i>	75.53	
05 12 23 00-0721	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	45.32	11.35
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-5.29	
			<i>For 316 Stainless Steel, Add</i>	96.61	
			<i>For Aluminum, Add</i>	5.43	
			<i>For Galvanized Steel, Add</i>	18.72	
			<i>For 304 Stainless Steel, Add</i>	86.04	
05 12 23 00-0722	LF		5" x 5" x 1/4" Square Steel Tubing.....	50.89	12.74
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500 To 1,000, Deduct</i>	-4.24	
			<i>For >1,000, Deduct</i>	-5.94	
			<i>For 316 Stainless Steel, Add</i>	108.48	
			<i>For Aluminum, Add</i>	6.10	
			<i>For Galvanized Steel, Add</i>	21.02	
			<i>For 304 Stainless Steel, Add</i>	96.62	
05 12 23 00-0723	LF		6" x 6" x 1/4" Square Steel Tubing.....	61.97	15.51
			<i>For >100 To 250, Deduct</i>	-1.55	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500 To 1,000, Deduct</i>	-5.17	
			<i>For >1,000, Deduct</i>	-7.23	
			<i>For 316 Stainless Steel, Add</i>	132.10	
			<i>For Aluminum, Add</i>	7.43	
			<i>For Galvanized Steel, Add</i>	25.59	
			<i>For 304 Stainless Steel, Add</i>	117.65	
05 12 23 00-0724			Rectangular Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0725			3/16" Wall Thickness (05 12 23 00-0724)		
05 12 23 00-0726	LF		3" x 2" x 3/16" Square Steel Tubing.....	21.34	5.70
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.55	
			<i>For 316 Stainless Steel, Add</i>	44.00	
			<i>For Aluminum, Add</i>	2.48	
			<i>For Galvanized Steel, Add</i>	8.53	
			<i>For 304 Stainless Steel, Add</i>	39.19	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0727 LF 4" x 2" x 3/16" Square Steel Tubing.....	26.24	7.01
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.14	
For 316 Stainless Steel, Add	54.08	
For Aluminum, Add	3.04	
For Galvanized Steel, Add	10.48	
For 304 Stainless Steel, Add	48.17	
05 12 23 00-0728 LF 4" x 3" x 3/16" Square Steel Tubing.....	31.12	8.31
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.72	
For 316 Stainless Steel, Add	64.13	
For Aluminum, Add	3.61	
For Galvanized Steel, Add	12.42	
For 304 Stainless Steel, Add	57.11	
05 12 23 00-0729 LF 5" x 2" x 3/16" Square Steel Tubing.....	31.12	8.31
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.72	
For 316 Stainless Steel, Add	64.13	
For Aluminum, Add	3.61	
For Galvanized Steel, Add	12.42	
For 304 Stainless Steel, Add	57.11	
05 12 23 00-0730 LF 5" x 3" x 3/16" Square Steel Tubing.....	35.97	9.61
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.86	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.30	
For 316 Stainless Steel, Add	74.14	
For Aluminum, Add	4.17	
For Galvanized Steel, Add	14.37	
For 304 Stainless Steel, Add	66.03	
05 12 23 00-0731 LF 5" x 4" x 3/16" Square Steel Tubing.....	40.85	10.91
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.11	
For >500 To 1,000, Deduct	-3.50	
For >1,000, Deduct	-4.88	
For 316 Stainless Steel, Add	84.19	
For Aluminum, Add	4.74	
For Galvanized Steel, Add	16.31	
For 304 Stainless Steel, Add	74.98	
05 12 23 00-0732 LF 6" x 2" x 3/16" Square Steel Tubing.....	35.97	9.61
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.86	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.30	
For 316 Stainless Steel, Add	74.14	
For Aluminum, Add	4.17	
For Galvanized Steel, Add	14.37	
For 304 Stainless Steel, Add	66.03	
05 12 23 00-0733 LF 6" x 3" x 3/16" Square Steel Tubing.....	40.85	10.91
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.11	
For >500 To 1,000, Deduct	-3.50	
For >1,000, Deduct	-4.88	
For 316 Stainless Steel, Add	84.19	
For Aluminum, Add	4.74	
For Galvanized Steel, Add	16.31	
For 304 Stainless Steel, Add	74.98	
05 12 23 00-0734 LF 6" x 4" x 3/16" Square Steel Tubing.....	45.71	12.21
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.36	
For >500 To 1,000, Deduct	-3.91	
For >1,000, Deduct	-5.46	
For 316 Stainless Steel, Add	94.21	
For Aluminum, Add	5.30	
For Galvanized Steel, Add	18.25	
For 304 Stainless Steel, Add	83.90	
05 12 23 00-0735 1/4" Wall Thickness (05 12 23 00-0724)		
05 12 23 00-0736 LF 3" x 2" x 1/4" Square Steel Tubing.....	23.17	5.79
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.71	
For 316 Stainless Steel, Add	49.38	
For Aluminum, Add	2.78	
For Galvanized Steel, Add	9.57	
For 304 Stainless Steel, Add	43.98	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0737	LF		4" x 2" x 1/4" Square Steel Tubing.....	28.70	7.19
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.39	
			For >1,000, Deduct	-3.35	
			For 316 Stainless Steel, Add	61.18	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.85	
			For 304 Stainless Steel, Add	54.49	
05 12 23 00-0738	LF		4" x 3" x 1/4" Square Steel Tubing.....	34.24	8.58
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.71	
			For >500 To 1,000, Deduct	-2.86	
			For >1,000, Deduct	-4.00	
			For 316 Stainless Steel, Add	72.99	
			For Aluminum, Add	4.11	
			For Galvanized Steel, Add	14.14	
			For 304 Stainless Steel, Add	65.01	
05 12 23 00-0739	LF		5" x 2" x 1/4" Square Steel Tubing.....	34.24	8.58
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.71	
			For >500 To 1,000, Deduct	-2.86	
			For >1,000, Deduct	-4.00	
			For 316 Stainless Steel, Add	72.99	
			For Aluminum, Add	4.11	
			For Galvanized Steel, Add	14.14	
			For 304 Stainless Steel, Add	65.01	
05 12 23 00-0740	LF		5" x 3" x 1/4" Square Steel Tubing.....	39.78	9.96
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-3.32	
			For >1,000, Deduct	-4.64	
			For 316 Stainless Steel, Add	84.80	
			For Aluminum, Add	4.77	
			For Galvanized Steel, Add	16.43	
			For 304 Stainless Steel, Add	75.53	
05 12 23 00-0741	LF		5" x 4" x 1/4" Square Steel Tubing.....	45.32	11.35
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.78	
			For >1,000, Deduct	-5.29	
			For 316 Stainless Steel, Add	96.61	
			For Aluminum, Add	5.43	
			For Galvanized Steel, Add	18.72	
			For 304 Stainless Steel, Add	86.04	
05 12 23 00-0742	LF		6" x 2" x 1/4" Square Steel Tubing.....	39.78	9.96
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-3.32	
			For >1,000, Deduct	-4.64	
			For 316 Stainless Steel, Add	84.80	
			For Aluminum, Add	4.77	
			For Galvanized Steel, Add	16.43	
			For 304 Stainless Steel, Add	75.53	
05 12 23 00-0743	LF		6" x 3" x 1/4" Square Steel Tubing.....	45.32	11.35
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.78	
			For >1,000, Deduct	-5.29	
			For 316 Stainless Steel, Add	96.61	
			For Aluminum, Add	5.43	
			For Galvanized Steel, Add	18.72	
			For 304 Stainless Steel, Add	86.04	
05 12 23 00-0744	LF		6" x 4" x 1/4" Square Steel Tubing.....	50.89	12.74
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.55	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000, Deduct	-5.94	
			For 316 Stainless Steel, Add	108.48	
			For Aluminum, Add	6.10	
			For Galvanized Steel, Add	21.02	
			For 304 Stainless Steel, Add	96.62	
05 12 23 00-0745			Round Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0746			0.065" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0747	LF		1" Diameter x 0.065" Round Steel Tubing	4.72	1.06
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.22	
			For >500 To 1,000, Deduct	-0.38	
			For >1,000, Deduct	-0.53	
			For 316 Stainless Steel, Add	10.56	
			For Aluminum, Add	0.59	
			For Galvanized Steel, Add	2.05	
			For 304 Stainless Steel, Add	9.41	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0748 LF 1-1/4" Diameter x 0.065" Round Steel Tubing	5.97	1.34
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.67	
For 316 Stainless Steel, Add	13.38	
For Aluminum, Add	0.75	
For Galvanized Steel, Add	2.59	
For 304 Stainless Steel, Add	11.91	
05 12 23 00-0749 LF 1-1/2" Diameter x 0.065" Round Steel Tubing	7.22	1.63
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.58	
For >1,000, Deduct	-0.81	
For 316 Stainless Steel, Add	16.19	
For Aluminum, Add	0.91	
For Galvanized Steel, Add	3.14	
For 304 Stainless Steel, Add	14.42	
05 12 23 00-0750 LF 2" Diameter x 0.065" Round Steel Tubing	9.75	2.19
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.10	
For 316 Stainless Steel, Add	21.86	
For Aluminum, Add	1.23	
For Galvanized Steel, Add	4.23	
For 304 Stainless Steel, Add	19.47	
05 12 23 00-0751 LF 2-1/2" Diameter x 0.065" Round Steel Tubing	12.27	2.76
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.98	
For >1,000, Deduct	-1.38	
For 316 Stainless Steel, Add	27.49	
For Aluminum, Add	1.55	
For Galvanized Steel, Add	5.33	
For 304 Stainless Steel, Add	24.48	
05 12 23 00-0752 LF 3" Diameter x 0.065" Round Steel Tubing	14.79	3.33
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.18	
For >1,000, Deduct	-1.66	
For 316 Stainless Steel, Add	33.15	
For Aluminum, Add	1.86	
For Galvanized Steel, Add	6.42	
For 304 Stainless Steel, Add	29.53	
05 12 23 00-0753 LF 3-1/2" Diameter x 0.065" Round Steel Tubing	17.32	3.89
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.95	
For 316 Stainless Steel, Add	38.82	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.52	
For 304 Stainless Steel, Add	34.57	
05 12 23 00-0754 LF 4" Diameter x 0.065" Round Steel Tubing	19.84	4.46
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.59	
For >1,000, Deduct	-2.23	
For 316 Stainless Steel, Add	44.45	
For Aluminum, Add	2.50	
For Galvanized Steel, Add	8.61	
For 304 Stainless Steel, Add	39.59	
05 12 23 00-0755 0.083" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0756 LF 1" Diameter x 0.083" Round Steel Tubing	5.12	1.16
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.41	
For >1,000, Deduct	-0.58	
For 316 Stainless Steel, Add	11.42	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.21	
For 304 Stainless Steel, Add	10.17	
05 12 23 00-0757 LF 1-1/4" Diameter x 0.083" Round Steel Tubing	6.51	1.48
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.52	
For >1,000, Deduct	-0.73	
For 316 Stainless Steel, Add	14.53	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.81	
For 304 Stainless Steel, Add	12.94	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0758	LF 1-1/2" Diameter x 0.083" Round Steel Tubing	7.91	1.79
	For >100 To 250, Deduct	-0.18	
	For >250 To 500, Deduct	-0.38	
	For >500 To 1,000, Deduct	-0.63	
	For >1,000, Deduct	-0.89	
	For 316 Stainless Steel, Add	17.66	
	For Aluminum, Add	0.99	
	For Galvanized Steel, Add	3.42	
	For 304 Stainless Steel, Add	15.73	
05 12 23 00-0759	LF 2" Diameter x 0.083" Round Steel Tubing	10.70	2.43
	For >100 To 250, Deduct	-0.24	
	For >250 To 500, Deduct	-0.51	
	For >500 To 1,000, Deduct	-0.86	
	For >1,000, Deduct	-1.21	
	For 316 Stainless Steel, Add	23.87	
	For Aluminum, Add	1.34	
	For Galvanized Steel, Add	4.63	
	For 304 Stainless Steel, Add	21.26	
05 12 23 00-0760	LF 2-1/2" Diameter x 0.083" Round Steel Tubing	13.49	3.05
	For >100 To 250, Deduct	-0.31	
	For >250 To 500, Deduct	-0.64	
	For >500 To 1,000, Deduct	-1.08	
	For >1,000, Deduct	-1.52	
	For 316 Stainless Steel, Add	30.11	
	For Aluminum, Add	1.69	
	For Galvanized Steel, Add	5.83	
	For 304 Stainless Steel, Add	26.82	
05 12 23 00-0761	LF 3" Diameter x 0.083" Round Steel Tubing	16.28	3.69
	For >100 To 250, Deduct	-0.37	
	For >250 To 500, Deduct	-0.78	
	For >500 To 1,000, Deduct	-1.31	
	For >1,000, Deduct	-1.84	
	For 316 Stainless Steel, Add	36.35	
	For Aluminum, Add	2.04	
	For Galvanized Steel, Add	7.04	
	For 304 Stainless Steel, Add	32.38	
05 12 23 00-0762	LF 3-1/2" Diameter x 0.083" Round Steel Tubing	19.06	4.33
	For >100 To 250, Deduct	-0.43	
	For >250 To 500, Deduct	-0.91	
	For >500 To 1,000, Deduct	-1.53	
	For >1,000, Deduct	-2.15	
	For 316 Stainless Steel, Add	42.56	
	For Aluminum, Add	2.39	
	For Galvanized Steel, Add	8.25	
	For 304 Stainless Steel, Add	37.91	
05 12 23 00-0763	LF 4" Diameter x 0.083" Round Steel Tubing	21.85	4.95
	For >100 To 250, Deduct	-0.50	
	For >250 To 500, Deduct	-1.04	
	For >500 To 1,000, Deduct	-1.75	
	For >1,000, Deduct	-2.46	
	For 316 Stainless Steel, Add	48.80	
	For Aluminum, Add	2.75	
	For Galvanized Steel, Add	9.46	
	For 304 Stainless Steel, Add	43.46	
05 12 23 00-0764	0.125" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0765	LF 2" Diameter x 0.125" Round Steel Tubing	11.41	3.06
	For >100 To 250, Deduct	-0.31	
	For >250 To 500, Deduct	-0.59	
	For >500 To 1,000, Deduct	-0.98	
	For >1,000, Deduct	-1.37	
	For 316 Stainless Steel, Add	23.42	
	For Aluminum, Add	1.32	
	For Galvanized Steel, Add	4.54	
	For 304 Stainless Steel, Add	20.86	
05 12 23 00-0766	LF 2-1/2" Diameter x 0.125" Round Steel Tubing	14.46	3.88
	For >100 To 250, Deduct	-0.39	
	For >250 To 500, Deduct	-0.75	
	For >500 To 1,000, Deduct	-1.24	
	For >1,000, Deduct	-1.73	
	For 316 Stainless Steel, Add	29.70	
	For Aluminum, Add	1.67	
	For Galvanized Steel, Add	5.75	
	For 304 Stainless Steel, Add	26.45	
05 12 23 00-0767	LF 3" Diameter x 0.125" Round Steel Tubing	17.49	4.69
	For >100 To 250, Deduct	-0.47	
	For >250 To 500, Deduct	-0.91	
	For >500 To 1,000, Deduct	-1.50	
	For >1,000, Deduct	-2.09	
	For 316 Stainless Steel, Add	35.94	
	For Aluminum, Add	2.02	
	For Galvanized Steel, Add	6.96	
	For 304 Stainless Steel, Add	32.01	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0768	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	20.53	5.51
				<i>For >100 To 250, Deduct</i>	-0.55	
				<i>For >250 To 500, Deduct</i>	-1.06	
				<i>For >500 To 1,000, Deduct</i>	-1.76	
				<i>For >1,000, Deduct</i>	-2.46	
				<i>For 316 Stainless Steel, Add</i>	42.18	
				<i>For Aluminum, Add</i>	2.37	
				<i>For Galvanized Steel, Add</i>	8.17	
				<i>For 304 Stainless Steel, Add</i>	37.56	
	05 12 23 00-0769	LF		4" Diameter x 0.125" Round Steel Tubing	23.57	6.33
				<i>For >100 To 250, Deduct</i>	-0.63	
				<i>For >250 To 500, Deduct</i>	-1.22	
				<i>For >500 To 1,000, Deduct</i>	-2.02	
				<i>For >1,000, Deduct</i>	-2.82	
				<i>For 316 Stainless Steel, Add</i>	48.45	
				<i>For Aluminum, Add</i>	2.73	
				<i>For Galvanized Steel, Add</i>	9.39	
				<i>For 304 Stainless Steel, Add</i>	43.15	
	05 12 23 00-0770			Flat Steel Bar <small>(05 12 23 00-0422)</small>		
	05 12 23 00-0771			1/8" Thick <small>(05 12 23 00-0770)</small>		
	05 12 23 00-0772	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.38	1.53
				<i>For 316 Stainless Steel, Add</i>	3.49	
				<i>For Aluminum, Add</i>	0.20	
				<i>For Galvanized Steel, Add</i>	0.68	
				<i>For 304 Stainless Steel, Add</i>	3.11	
	05 12 23 00-0773	LF		1/8" Thick x 2" Wide Flat Steel Bar	5.24	2.29
				<i>For 316 Stainless Steel, Add</i>	5.79	
				<i>For Aluminum, Add</i>	0.33	
				<i>For Galvanized Steel, Add</i>	1.12	
				<i>For 304 Stainless Steel, Add</i>	5.16	
	05 12 23 00-0774	LF		1/8" Thick x 4" Wide Flat Steel Bar	8.12	3.22
				<i>For 316 Stainless Steel, Add</i>	10.53	
				<i>For Aluminum, Add</i>	0.59	
				<i>For Galvanized Steel, Add</i>	2.04	
				<i>For 304 Stainless Steel, Add</i>	9.38	
	05 12 23 00-0775	LF		1/8" Thick x 6" Wide Flat Steel Bar	11.00	4.37
				<i>For 316 Stainless Steel, Add</i>	14.24	
				<i>For Aluminum, Add</i>	0.80	
				<i>For Galvanized Steel, Add</i>	2.76	
				<i>For 304 Stainless Steel, Add</i>	12.68	
	05 12 23 00-0776			3/16" Thick <small>(05 12 23 00-0770)</small>		
	05 12 23 00-0777	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.50	1.89
				<i>For 316 Stainless Steel, Add</i>	5.31	
				<i>For Aluminum, Add</i>	0.30	
				<i>For Galvanized Steel, Add</i>	1.03	
				<i>For 304 Stainless Steel, Add</i>	4.73	
	05 12 23 00-0778	LF		3/16" Thick x 2" Wide Flat Steel Bar	7.13	2.84
				<i>For 316 Stainless Steel, Add</i>	9.15	
				<i>For Aluminum, Add</i>	0.51	
				<i>For Galvanized Steel, Add</i>	1.77	
				<i>For 304 Stainless Steel, Add</i>	8.15	
	05 12 23 00-0779	LF		3/16" Thick x 4" Wide Flat Steel Bar	9.72	3.27
				<i>For 316 Stainless Steel, Add</i>	15.46	
				<i>For Aluminum, Add</i>	0.87	
				<i>For Galvanized Steel, Add</i>	2.99	
				<i>For 304 Stainless Steel, Add</i>	13.77	
	05 12 23 00-0780	LF		3/16" Thick x 6" Wide Flat Steel Bar	13.46	4.52
				<i>For 316 Stainless Steel, Add</i>	21.34	
				<i>For Aluminum, Add</i>	1.20	
				<i>For Galvanized Steel, Add</i>	4.14	
				<i>For 304 Stainless Steel, Add</i>	19.01	
	05 12 23 00-0781			1/4" Thick <small>(05 12 23 00-0770)</small>		
	05 12 23 00-0782	LF		1/4" Thick x 1" Wide Flat Steel Bar	4.64	2.00
				<i>For 316 Stainless Steel, Add</i>	5.25	
				<i>For Aluminum, Add</i>	0.30	
				<i>For Galvanized Steel, Add</i>	1.02	
				<i>For 304 Stainless Steel, Add</i>	4.67	
	05 12 23 00-0783	LF		1/4" Thick x 2" Wide Flat Steel Bar	7.81	3.00
				<i>For 316 Stainless Steel, Add</i>	10.59	
				<i>For Aluminum, Add</i>	0.60	
				<i>For Galvanized Steel, Add</i>	2.05	
				<i>For 304 Stainless Steel, Add</i>	9.43	
	05 12 23 00-0784	LF		1/4" Thick x 4" Wide Flat Steel Bar	11.56	3.43
				<i>For 316 Stainless Steel, Add</i>	20.51	
				<i>For Aluminum, Add</i>	1.15	
				<i>For Galvanized Steel, Add</i>	3.97	
				<i>For 304 Stainless Steel, Add</i>	18.27	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0785	LF		1/4" Thick x 6" Wide Flat Steel Bar	16.70	5.07
			<i>For 316 Stainless Steel, Add</i>	29.09	
			<i>For Aluminum, Add</i>	1.64	
			<i>For Galvanized Steel, Add</i>	5.64	
			<i>For 304 Stainless Steel, Add</i>	25.91	
05 12 23 00-0786			3/8" Thick (05 12 23 00-0770)		
05 12 23 00-0787	LF		3/8" Thick x 1" Wide Flat Steel Bar	5.95	2.25
			<i>For 316 Stainless Steel, Add</i>	8.22	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.59	
			<i>For 304 Stainless Steel, Add</i>	7.32	
05 12 23 00-0788	LF		3/8" Thick x 2" Wide Flat Steel Bar	9.81	3.37
			<i>For 316 Stainless Steel, Add</i>	15.17	
			<i>For Aluminum, Add</i>	0.85	
			<i>For Galvanized Steel, Add</i>	2.94	
			<i>For 304 Stainless Steel, Add</i>	13.51	
05 12 23 00-0789	LF		3/8" Thick x 4" Wide Flat Steel Bar	15.26	3.85
			<i>For 316 Stainless Steel, Add</i>	30.34	
			<i>For Aluminum, Add</i>	1.71	
			<i>For Galvanized Steel, Add</i>	5.88	
			<i>For 304 Stainless Steel, Add</i>	27.02	
05 12 23 00-0790	LF		3/8" Thick x 6" Wide Flat Steel Bar	21.91	5.70
			<i>For 316 Stainless Steel, Add</i>	42.69	
			<i>For Aluminum, Add</i>	2.40	
			<i>For Galvanized Steel, Add</i>	8.27	
			<i>For 304 Stainless Steel, Add</i>	38.02	
05 12 23 00-0791			1/2" Thick (05 12 23 00-0770)		
05 12 23 00-0792	LF		1/2" Thick x 1" Wide Flat Steel Bar	7.01	2.47
			<i>For 316 Stainless Steel, Add</i>	10.53	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.04	
			<i>For 304 Stainless Steel, Add</i>	9.38	
05 12 23 00-0793	LF		1/2" Thick x 2" Wide Flat Steel Bar	11.63	3.72
			<i>For 316 Stainless Steel, Add</i>	19.36	
			<i>For Aluminum, Add</i>	1.09	
			<i>For Galvanized Steel, Add</i>	3.75	
			<i>For 304 Stainless Steel, Add</i>	17.24	
05 12 23 00-0794	LF		1/2" Thick x 4" Wide Flat Steel Bar	16.67	4.23
			<i>For 316 Stainless Steel, Add</i>	32.99	
			<i>For Aluminum, Add</i>	1.86	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.38	
05 12 23 00-0795	LF		1/2" Thick x 6" Wide Flat Steel Bar	29.98	6.28
			<i>For 316 Stainless Steel, Add</i>	65.82	
			<i>For Aluminum, Add</i>	3.70	
			<i>For Galvanized Steel, Add</i>	12.75	
			<i>For 304 Stainless Steel, Add</i>	58.62	
05 12 23 00-0796			Flat Steel Plate (05 12 23 00-0422)		
05 12 23 00-0797	SF		1/8" Thick Flat Steel Plate	17.60	6.55
			<i>For 316 Stainless Steel, Add</i>	24.83	
			<i>For Aluminum, Add</i>	1.40	
			<i>For Galvanized Steel, Add</i>	4.81	
			<i>For 304 Stainless Steel, Add</i>	22.12	
05 12 23 00-0798	SF		3/16" Thick Flat Steel Plate	19.90	6.79
			<i>For 316 Stainless Steel, Add</i>	31.07	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.02	
			<i>For 304 Stainless Steel, Add</i>	27.67	
05 12 23 00-0799	SF		1/4" Thick Flat Steel Plate	23.80	7.60
			<i>For 316 Stainless Steel, Add</i>	39.62	
			<i>For Aluminum, Add</i>	2.23	
			<i>For Galvanized Steel, Add</i>	7.68	
			<i>For 304 Stainless Steel, Add</i>	35.28	
05 12 23 00-0800	SF		3/8" Thick Flat Steel Plate	32.27	8.55
			<i>For 316 Stainless Steel, Add</i>	62.18	
			<i>For Aluminum, Add</i>	3.50	
			<i>For Galvanized Steel, Add</i>	12.05	
			<i>For 304 Stainless Steel, Add</i>	55.38	
05 12 23 00-0801	SF		1/2" Thick Flat Steel Plate	38.34	9.40
			<i>For 316 Stainless Steel, Add</i>	77.47	
			<i>For Aluminum, Add</i>	4.36	
			<i>For Galvanized Steel, Add</i>	15.01	
			<i>For 304 Stainless Steel, Add</i>	69.00	
05 12 23 00-0802	SF		3/4" Thick Flat Steel Plate	63.06	11.66
			<i>For 316 Stainless Steel, Add</i>	145.28	
			<i>For Aluminum, Add</i>	8.17	
			<i>For Galvanized Steel, Add</i>	28.15	
			<i>For 304 Stainless Steel, Add</i>	129.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0803 SF 1" Thick Flat Steel Plate..... <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	84.23 198.91 11.19 38.54 177.16	14.57
05 12 33 Structural Steel for Bridges (05 12) See CSI section 05 12 23 00-0000 for structural steel.		
05 14 Structural Aluminum Framing (05 10)		
05 14 13 Architecturally-Exposed Structural Aluminum Framing (05 14)		
05 14 13 00-0001 Rolled Or Plate Shapes (05 14 13) Note: 1" through 10" member.		
05 14 13 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	9.45	0.88
05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	8.32	0.82
05 14 13 00-0004 Aluminum Extrusions (05 14 13)		
05 14 13 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	15.30	3.68
05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	16.22	3.68
05 14 13 00-0007 Aluminum Tubing (05 14 13)		
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	13.69	3.70
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	12.12	5.99
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.69	6.52
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	16.86	7.61
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	20.11	8.16
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	59.54	10.33
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	48.71	9.24
05 14 13 00-0015 Columns (05 14 13) Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column	54.60	7.08
05 14 13 00-0018 LF 8" Diameter Aluminum Column	72.61	10.15
05 14 13 00-0019 LF 10" Diameter Aluminum Column	88.83	11.42
05 14 13 00-0020 LF 12" Diameter Aluminum Column	134.60	11.95
05 14 13 00-0021 LF 15" Diameter Aluminum Column	172.13	13.85
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap	106.40	13.22
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap	122.00	14.28
05 14 13 00-0024 EA 10" Diameter Aluminum Base And Cap	154.56	15.86
05 14 13 00-0025 EA 12" Diameter Aluminum Base And Cap	269.87	16.92
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap	415.16	18.50
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column	61.16	7.08
05 14 13 00-0029 LF 8" Diameter Aluminum Column	83.06	10.15
05 14 13 00-0030 LF 10" Diameter Aluminum Column	102.03	11.42
05 14 13 00-0031 LF 12" Diameter Aluminum Column	156.76	11.95
05 14 13 00-0032 LF 15" Diameter Aluminum Column	201.03	13.85
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap	122.39	13.22
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap	140.70	14.28
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap	179.13	15.86
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap	317.08	16.92
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap	490.79	18.50
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column	68.23	7.08
05 14 13 00-0040 LF 8" Diameter Aluminum Column	92.47	10.15
05 14 13 00-0041 LF 10" Diameter Aluminum Column	113.90	11.42
05 14 13 00-0042 LF 12" Diameter Aluminum Column	176.70	11.95
05 14 13 00-0043 LF 15" Diameter Aluminum Column	227.04	13.85
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap	136.78	13.22
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap	157.52	14.28
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap	201.24	15.86
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap	359.57	16.92
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap	558.86	18.50
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column	73.06	7.08
05 14 13 00-0051 LF 8" Aluminum Column	98.90	10.15
05 14 13 00-0052 LF 10" Aluminum Column	122.03	11.42
05 14 13 00-0053 LF 12" Aluminum Column	190.34	11.95

05 Metals**05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 14 13 00-0054	LF	15" Aluminum Column		244.83	13.85
05 14 13 00-0055	EA	6" Aluminum Base And Cap.....		146.63	13.22
05 14 13 00-0056	EA	8" Aluminum Base And Cap.....		169.02	14.28
05 14 13 00-0057	EA	10" Aluminum Base And Cap.....		216.36	15.86
05 14 13 00-0058	EA	12" Aluminum Base And Cap.....		388.63	16.92
05 14 13 00-0059	EA	15" Aluminum Base And Cap.....		605.41	18.50
05 14 13 00-0060		Ornamental Or Decorative Cap And Bases <small>(05 14 13 00-0015)</small>			
05 14 13 00-0061	EA	8" Corinthian Capital And Base.....		845.83	15.86
05 14 13 00-0062	EA	10" Corinthian Capital And Base.....		1,246.00	18.50
05 14 13 00-0063	EA	12" Corinthian Capital And Base.....		1,973.21	21.15
05 14 13 00-0064	EA	8" Scamozzi Capital And Base		417.90	15.86
05 14 13 00-0065	EA	10" Scamozzi Capital And Base		560.62	18.50
05 14 13 00-0066	EA	12" Scamozzi Capital And Base		1,131.96	21.15
05 15 Wire Rope Assemblies					
05 15 16 Steel Wire Rope Assemblies					
05 15 16 00-0001		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>			
05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		1.67	0.11
		<i>For >500, Deduct</i>		-0.30	
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		2.24	0.11
		<i>For >500, Deduct</i>		-0.39	
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		2.66	0.22
		<i>For >500, Deduct</i>		-0.45	
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		3.18	0.22
		<i>For >500, Deduct</i>		-0.52	
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		3.68	0.32
		<i>For >500, Deduct</i>		-0.59	
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		4.51	0.43
		<i>For >500, Deduct</i>		-0.71	
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		5.38	0.43
		<i>For >500, Deduct</i>		-0.84	
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		7.45	0.76
		<i>For >500, Deduct</i>		-1.15	
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		10.01	0.87
		<i>For >500, Deduct</i>		-1.54	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		12.46	1.19
		<i>For >500, Deduct</i>		-1.88	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		15.40	1.53
		<i>For >500, Deduct</i>		-2.32	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		18.77	1.85
		<i>For >500, Deduct</i>		-2.82	
05 15 16 00-0014		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>			
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		1.96	0.11
		<i>For >500, Deduct</i>		-0.35	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		2.54	0.11
		<i>For >500, Deduct</i>		-0.45	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		3.15	0.22
		<i>For >500, Deduct</i>		-0.54	
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		3.56	0.22
		<i>For >500, Deduct</i>		-0.60	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		4.23	0.32
		<i>For >500, Deduct</i>		-0.70	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....		4.86	0.43
		<i>For >500, Deduct</i>		-0.78	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.68	0.43
				<i>For >500, Deduct</i>	-0.90	
	05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.34	0.76
				<i>For >500, Deduct</i>	-1.32	
	05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.66	0.87
				<i>For >500, Deduct</i>	-1.67	
	05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.10	1.19
				<i>For >500, Deduct</i>	-2.02	
	05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	16.78	1.53
				<i>For >500, Deduct</i>	-2.58	
	05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	20.42	1.85
				<i>For >500, Deduct</i>	-3.15	
	05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.55	0.11
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.10	0.11
				<i>For >500, Deduct</i>	-0.36	
	05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.50	0.22
				<i>For >500, Deduct</i>	-0.41	
	05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.91	0.22
				<i>For >500, Deduct</i>	-0.47	
	05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.50	0.32
				<i>For >500, Deduct</i>	-0.55	
	05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.43	0.43
				<i>For >500, Deduct</i>	-0.69	
	05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.16	0.43
				<i>For >500, Deduct</i>	-0.80	
	05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.25	0.76
				<i>For >500, Deduct</i>	-1.11	
	05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.85	0.87
				<i>For >500, Deduct</i>	-1.31	
	05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	11.24	1.19
				<i>For >500, Deduct</i>	-1.63	
	05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.53	0.11
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.02	0.11
				<i>For >500, Deduct</i>	-0.35	
	05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.50	0.22
				<i>For >500, Deduct</i>	-0.41	
	05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.91	0.22
				<i>For >500, Deduct</i>	-0.47	
	05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.66	0.32
				<i>For >500, Deduct</i>	-0.58	
	05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.35	0.43
				<i>For >500, Deduct</i>	-0.68	
	05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.46	0.43
				<i>For >500, Deduct</i>	-0.86	
	05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.61	0.76
				<i>For >500, Deduct</i>	-1.18	
	05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.94	0.87
				<i>For >500, Deduct</i>	-1.52	
	05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.23	1.19
				<i>For >500, Deduct</i>	-1.84	
	05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.84	0.22
				<i>For >500, Deduct</i>	-0.48	
	05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.30	0.22
				<i>For >500, Deduct</i>	-0.55	
	05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.86	0.32
				<i>For >500, Deduct</i>	-0.62	
	05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.20	0.43
				<i>For >500, Deduct</i>	-0.85	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.72	0.43
			<i>For >500, Deduct</i>	-0.91	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.79	0.76
			<i>For >500, Deduct</i>	-1.21	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.97	0.87
			<i>For >500, Deduct</i>	-1.53	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.15	1.19
			<i>For >500, Deduct</i>	-2.01	
05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	15.91	1.53
			<i>For >500, Deduct</i>	-2.42	
05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	19.20	1.85
			<i>For >500, Deduct</i>	-2.91	
05 15 16 00-0060			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.91	0.22
			<i>For >500, Deduct</i>	-0.50	
05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.50	0.22
			<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.13	0.32
			<i>For >500, Deduct</i>	-0.68	
05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.79	0.43
			<i>For >500, Deduct</i>	-0.97	
05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.82	0.43
			<i>For >500, Deduct</i>	-0.93	
05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.98	0.76
			<i>For >500, Deduct</i>	-1.25	
05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	10.57	0.87
			<i>For >500, Deduct</i>	-1.65	
05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.35	1.19
			<i>For >500, Deduct</i>	-2.05	
05 15 16 00-0069			19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.03	0.11
			<i>For >500, Deduct</i>	-0.57	
05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.26	0.11
			<i>For >500, Deduct</i>	-0.60	
05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.84	0.22
			<i>For >500, Deduct</i>	-0.69	
05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	5.13	0.22
			<i>For >500, Deduct</i>	-0.91	
05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	5.86	0.22
			<i>For >500, Deduct</i>	-1.06	
05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	6.74	0.43
			<i>For >500, Deduct</i>	-1.16	
05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	8.02	0.43
			<i>For >500, Deduct</i>	-1.37	
05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	11.01	0.66
			<i>For >500, Deduct</i>	-1.87	
05 15 16 00-0078			7x7, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.33	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.38	0.09
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.43	0.10
			<i>For >500, Deduct</i>	-0.05	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.49 -0.06	0.11
	05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.60 -0.08	0.11
05 15 16 00-0084				7x19, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
	05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.60 -0.09	0.10
	05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.64 -0.09	0.11
	05 15 16 00-0087	LF		3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.74 -0.11	0.11
	05 15 16 00-0088	LF		1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.88 -0.14	0.11
	05 15 16 00-0089	LF		5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	1.34 -0.21	0.11
	05 15 16 00-0090	LF		3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	1.79 -0.27	0.11
05 15 16 00-0091				Heavy Duty, Galvanized Steel, Wire Rope Thimbles <small>(05 15 16)</small>		
	05 15 16 00-0092	EA		1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	14.28	3.27
	05 15 16 00-0093	EA		5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	16.39	3.27
	05 15 16 00-0094	EA		3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	18.73	3.27
	05 15 16 00-0095	EA		7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	25.16	3.27
	05 15 16 00-0096	EA		1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	25.19	3.27
	05 15 16 00-0097	EA		9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	25.19	3.27
	05 15 16 00-0098	EA		5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	27.37	3.27
	05 15 16 00-0099	EA		3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	50.44	5.01
	05 15 16 00-0100	EA		7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	59.41	6.09
	05 15 16 00-0101	EA		1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	106.15	10.00
	05 15 16 00-0102	EA		1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	152.74	13.59
	05 15 16 00-0103	EA		1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	152.74	13.59
05 15 16 00-0104				Galvanized Steel, Wire Rope Clips <small>(05 15 16)</small>		
	05 15 16 00-0105	EA		1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	16.67	3.27
	05 15 16 00-0106	EA		3/16" Diameter, Galvanized Steel, Wire Rope Clip.....	17.03	3.27
	05 15 16 00-0107	EA		1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	19.48	3.27
	05 15 16 00-0108	EA		5/16" Diameter, Galvanized Steel, Wire Rope Clip.....	19.87	3.27
	05 15 16 00-0109	EA		3/8" Diameter, Galvanized Steel, Wire Rope Clip.....	20.42	3.27
	05 15 16 00-0110	EA		7/16" Diameter, Galvanized Steel, Wire Rope Clip.....	25.69	3.27
	05 15 16 00-0111	EA		1/2" Diameter, Galvanized Steel, Wire Rope Clip.....	26.09	3.27
	05 15 16 00-0112	EA		9/16" Diameter, Galvanized Steel, Wire Rope Clip.....	29.91	3.27
	05 15 16 00-0113	EA		5/8" Diameter, Galvanized Steel, Wire Rope Clip.....	30.46	3.27
	05 15 16 00-0114	EA		3/4" Diameter, Galvanized Steel, Wire Rope Clip.....	41.72	4.35
	05 15 16 00-0115	EA		7/8" Diameter, Galvanized Steel, Wire Rope Clip.....	62.36	6.52
	05 15 16 00-0116	EA		1" Diameter, Galvanized Steel, Wire Rope Clip.....	68.62	6.52
	05 15 16 00-0117	EA		1-1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	80.58	8.70
	05 15 16 00-0118	EA		1-1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	117.04	13.05
05 15 16 00-0119				Steel, Open Swage Sockets <small>(05 15 16)</small>		
	05 15 16 00-0120	EA		1/4" Diameter, Steel, Open Swage Socket.....	103.84	3.27
	05 15 16 00-0121	EA		5/16" Diameter, Steel, Open Swage Socket.....	166.48	3.27
	05 15 16 00-0122	EA		3/8" Diameter, Steel, Open Swage Socket.....	170.79	4.35
	05 15 16 00-0123	EA		7/16" Diameter, Steel, Open Swage Socket.....	202.54	5.44
	05 15 16 00-0124	EA		1/2" Diameter, Steel, Open Swage Socket.....	202.54	5.44
	05 15 16 00-0125	EA		9/16" Diameter, Steel, Open Swage Socket.....	293.57	11.96
	05 15 16 00-0126	EA		5/8" Diameter, Steel, Open Swage Socket.....	293.57	11.96
	05 15 16 00-0127	EA		3/4" Diameter, Steel, Open Swage Socket.....	370.37	22.83
	05 15 16 00-0128	EA		7/8" Diameter, Steel, Open Swage Socket.....	497.51	32.62
	05 15 16 00-0129	EA		1" Diameter, Steel, Open Swage Socket.....	697.32	50.02
	05 15 16 00-0130	EA		1-1/8" Diameter, Steel, Open Swage Socket.....	906.88	78.30
	05 15 16 00-0131	EA		1-1/4" Diameter, Steel, Open Swage Socket.....	1,055.76	90.26
05 15 16 00-0132				Steel, Closed Swage Sockets <small>(05 15 16)</small>		
	05 15 16 00-0133	EA		1/4" Diameter, Steel, Closed Swage Socket.....	83.16	3.27
	05 15 16 00-0134	EA		5/16" Diameter, Steel, Closed Swage Socket.....	113.24	3.27
	05 15 16 00-0135	EA		3/8" Diameter, Steel, Closed Swage Socket.....	113.24	3.27
	05 15 16 00-0136	EA		7/16" Diameter, Steel, Closed Swage Socket.....	140.83	4.35
	05 15 16 00-0137	EA		1/2" Diameter, Steel, Closed Swage Socket.....	142.04	4.35
	05 15 16 00-0138	EA		9/16" Diameter, Steel, Closed Swage Socket.....	193.45	7.61
	05 15 16 00-0139	EA		5/8" Diameter, Steel, Closed Swage Socket.....	198.63	8.70
	05 15 16 00-0140	EA		3/4" Diameter, Steel, Closed Swage Socket.....	243.99	14.14
	05 15 16 00-0141	EA		7/8" Diameter, Steel, Closed Swage Socket.....	313.61	20.66
	05 15 16 00-0142	EA		1" Diameter, Steel, Closed Swage Socket.....	448.70	28.27
	05 15 16 00-0143	EA		1-1/8" Diameter, Steel, Closed Swage Socket.....	553.78	39.15
	05 15 16 00-0144	EA		1-1/4" Diameter, Steel, Closed Swage Socket.....	745.31	60.90

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

05 15 16 00-0145	Galvanized Steel, Open Spelter Sockets <small>(05 15 16)</small>			
05 15 16 00-0146	EA	1/4" Galvanized Steel, Open Spelter Socket	175.16	3.27
05 15 16 00-0147	EA	5/16" Galvanized Steel, Open Spelter Socket	179.13	3.27
05 15 16 00-0148	EA	3/8" Galvanized Steel, Open Spelter Socket	179.13	3.27
05 15 16 00-0149	EA	7/16" Galvanized Steel, Open Spelter Socket	198.48	6.52
05 15 16 00-0150	EA	1/2" Galvanized Steel, Open Spelter Socket	198.48	6.52
05 15 16 00-0151	EA	9/16" Galvanized Steel, Open Spelter Socket	258.49	10.87
05 15 16 00-0152	EA	5/8" Galvanized Steel, Open Spelter Socket	258.49	10.87
05 15 16 00-0153	EA	3/4" Galvanized Steel, Open Spelter Socket	325.41	16.31
05 15 16 00-0154	EA	7/8" Galvanized Steel, Open Spelter Socket	485.05	27.19
05 15 16 00-0155	EA	1" Galvanized Steel, Open Spelter Socket	887.53	42.41
05 15 16 00-0156	EA	1-1/8" Galvanized Steel, Open Spelter Socket	1,029.88	68.51
05 15 16 00-0157	EA	1-1/4" Galvanized Steel, Open Spelter Socket	1,392.96	90.26
05 15 16 00-0158	Galvanized Steel, Closed Spelter Sockets <small>(05 15 16)</small>			
05 15 16 00-0159	EA	1/4" Galvanized Steel, Closed Spelter Socket	146.54	3.27
05 15 16 00-0160	EA	5/16" Galvanized Steel, Closed Spelter Socket	147.09	3.27
05 15 16 00-0161	EA	3/8" Galvanized Steel, Closed Spelter Socket	147.09	3.27
05 15 16 00-0162	EA	7/16" Galvanized Steel, Closed Spelter Socket	163.54	5.44
05 15 16 00-0163	EA	1/2" Galvanized Steel, Closed Spelter Socket	163.54	5.44
05 15 16 00-0164	EA	9/16" Galvanized Steel, Closed Spelter Socket	227.12	9.79
05 15 16 00-0165	EA	5/8" Galvanized Steel, Closed Spelter Socket	227.12	9.79
05 15 16 00-0166	EA	3/4" Galvanized Steel, Closed Spelter Socket	276.54	14.14
05 15 16 00-0167	EA	7/8" Galvanized Steel, Closed Spelter Socket	403.16	21.75
05 15 16 00-0168	EA	1" Galvanized Steel, Closed Spelter Socket	608.02	33.71
05 15 16 00-0169	EA	1-1/8" Galvanized Steel, Closed Spelter Socket	795.36	45.68
05 15 16 00-0170	EA	1-1/4" Galvanized Steel, Closed Spelter Socket	999.68	60.90
05 15 16 00-0171	Forged Steel, Jaw And Jaw Turnbuckles <small>(05 15 16)</small>			
05 15 16 00-0172	EA	1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	100.16	3.27
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-13.39	
05 15 16 00-0173	EA	5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	107.59	3.27
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-14.51	
05 15 16 00-0174	EA	3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	121.34	3.27
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-16.57	
05 15 16 00-0175	EA	1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	133.19	4.35
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-17.24	
05 15 16 00-0176	EA	1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	175.60	5.44
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-22.94	
05 15 16 00-0177	EA	1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	199.39	6.52
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-25.98	
05 15 16 00-0178	EA	5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	201.53	8.70
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-25.21	
05 15 16 00-0179	EA	5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle	250.43	8.70
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-32.13	
05 15 16 00-0180	EA	5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	284.85	9.79
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-36.90	
05 15 16 00-0181	EA	3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle	271.50	11.96
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-33.78	
05 15 16 00-0182	EA	3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle	308.09	14.14
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-37.63	
05 15 16 00-0183	EA	3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	382.35	15.23
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-48.03	
05 15 16 00-0184	EA	3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	459.93	18.48
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-57.74	
05 15 16 00-0185	EA	7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	519.52	26.10
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-62.39	
05 15 16 00-0186	EA	7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle	631.19	30.45
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-76.55	
05 15 16 00-0187	EA	1" x 6", Forged Steel, Jaw And Jaw Turnbuckle	540.57	26.10
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-65.55	
05 15 16 00-0188	EA	1" x 12", Forged Steel, Jaw And Jaw Turnbuckle	614.74	33.71
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-71.82	
05 15 16 00-0189	EA	1" x 18", Forged Steel, Jaw And Jaw Turnbuckle	847.07	42.41
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-101.97	
05 15 16 00-0190	EA	1" x 24", Forged Steel, Jaw And Jaw Turnbuckle	944.93	50.02
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-112.08	
05 15 16 00-0191	EA	1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,048.24	60.90
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-120.99	
05 15 16 00-0192	EA	1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,269.97	68.51
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-149.72	
05 15 16 00-0193	EA	1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle	1,654.08	78.30
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-201.51	
05 15 16 00-0194	EA	1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,629.44	83.74
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-194.22	
05 15 16 00-0195	EA	1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,778.37	108.75
		<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-201.51	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0196	EA		1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	3,254.80 -406.66	141.38
	05 15 16 00-0197	EA		2" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	5,295.68 -631.23	271.87
05 15 16 00-0198	Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)					
	05 15 16 00-0199	EA		1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.76	
	05 15 16 00-0200	EA		5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.87	
	05 15 16 00-0201	EA		3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	23.66	
	05 15 16 00-0202	EA		7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	28.32	
	05 15 16 00-0203	EA		1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	28.19	
	05 15 16 00-0204	EA		5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	38.85	
	05 15 16 00-0205	EA		3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	46.97	
	05 15 16 00-0206	EA		7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	63.85	
	05 15 16 00-0207	EA		1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	66.22	
	05 15 16 00-0208	EA		1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	126.05	
	05 15 16 00-0209	EA		1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	150.13	
	05 15 16 00-0210	EA		1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	274.40	
	05 15 16 00-0211	EA		1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	314.87	
	05 15 16 00-0212	EA		2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	389.80	
05 15 16 00-0213	Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)					
	05 15 16 00-0214	EA		1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.63	
	05 15 16 00-0215	EA		1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.78	
	05 15 16 00-0216	EA		5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.09	
	05 15 16 00-0217	EA		5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.45	
	05 15 16 00-0218	EA		3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.78	
	05 15 16 00-0219	EA		3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	47.02	
	05 15 16 00-0220	EA		3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.52	
	05 15 16 00-0221	EA		3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	43.19	
	05 15 16 00-0222	EA		3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.59	
	05 15 16 00-0223	EA		3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.86	
	05 15 16 00-0224	EA		1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	35.01	
	05 15 16 00-0225	EA		1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.62	
	05 15 16 00-0226	EA		1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.38	
	05 15 16 00-0227	EA		1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	50.16	
	05 15 16 00-0228	EA		1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.75	
	05 15 16 00-0229	EA		1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	61.56	
	05 15 16 00-0230	EA		1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	54.00	
	05 15 16 00-0231	EA		1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	49.09	
	05 15 16 00-0232	EA		1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	58.02	
	05 15 16 00-0233	EA		5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	58.84	
	05 15 16 00-0234	EA		5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	52.22	
	05 15 16 00-0235	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	66.08	
	05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	75.95	
	05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	87.82	
	05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	72.25	
	05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	72.31	
	05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	73.76	
	05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	81.67	
	05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	88.18	
	05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	103.34	
	05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	137.25	
05 15 19	Stainless Steel Wire Rope Assemblies (05 15 19)					
05 15 19 00-0001	7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)					
	05 15 19 00-0002	LF		1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.26 -0.03	0.08
	05 15 19 00-0003	LF		3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.34 -0.04	0.09
	05 15 19 00-0004	LF		1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.44 -0.06	0.10
	05 15 19 00-0005	LF		5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.56 -0.08	0.11
	05 15 19 00-0006	LF		3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.71 -0.10	0.11
05 15 19 00-0007	7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)					
	05 15 19 00-0008	LF		1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.50 -0.07	0.10
	05 15 19 00-0009	LF		5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.57 -0.08	0.11
	05 15 19 00-0010	LF		3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.67 -0.09	0.11
	05 15 19 00-0011	LF		1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.84 -0.13	0.11

05	05 Metals
	05 10 Structural Metal Framing
	05 15 Wire Rope Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0012 LF 5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	1.28 -0.20	0.11
05 15 19 00-0013 LF 3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	1.92 -0.30	0.22
05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable ^(05 15 19)		
05 15 19 00-0015 LF 1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.26 -0.03	0.08
05 15 19 00-0016 LF 3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.34 -0.04	0.09
05 15 19 00-0017 LF 1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.44 -0.06	0.10
05 15 19 00-0018 LF 5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.56 -0.08	0.11
05 15 19 00-0019 LF 3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.71 -0.10	0.11
05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable ^(05 15 19)		
05 15 19 00-0021 LF 1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.50 -0.07	0.10
05 15 19 00-0022 LF 5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.57 -0.08	0.11
05 15 19 00-0023 LF 3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.67 -0.09	0.11
05 15 19 00-0024 LF 1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.84 -0.13	0.11
05 15 19 00-0025 LF 5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	1.28 -0.20	0.11
05 15 19 00-0026 LF 3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	1.92 -0.30	0.11

05 40 Cold-Formed Metal Framing ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing ^(05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)		
05 41 00 00-0002 SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.35 1.07 0.75 1.57 0.79 0.94 -0.94	1.08
05 41 00 00-0003 SF 3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.96 1.19 0.79 1.72 0.86 1.06 -1.06	1.08
05 41 00 00-0004 SF 4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	6.22 1.24 0.83 1.79 0.90 1.11 -1.11	1.08
05 41 00 00-0005 SF 6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	7.87 1.57 0.86 2.15 1.07 1.43 -1.43	1.20
05 41 00 00-0006 SF 8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	8.77 1.75 0.89 2.35 1.18 1.61 -1.61	1.31

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)



	Metals	05
	Cold-Formed Metal Framing	05 40
	Structural Metal Stud Framing	05 41

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....5.74		1.08
			<i>For Walls >10' High, Add</i>	1.15	
			<i>For Curved Wall, Add</i>	0.79	
			<i>For Up To 200, Add</i>	1.68	
			<i>For >200 To 500, Add</i>	0.84	
			<i>For 12" On Center, Add</i>	1.02	
			<i>For 24" On Center, Deduct</i>	-1.02	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....6.62		1.09
			<i>For Walls >10' High, Add</i>	1.32	
			<i>For Curved Wall, Add</i>	0.83	
			<i>For Up To 200, Add</i>	1.88	
			<i>For >200 To 500, Add</i>	0.94	
			<i>For 12" On Center, Add</i>	1.19	
			<i>For 24" On Center, Deduct</i>	-1.19	
05 41 00 00-0010	SF		4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....6.98		1.09
			<i>For Walls >10' High, Add</i>	1.40	
			<i>For Curved Wall, Add</i>	0.86	
			<i>For Up To 200, Add</i>	1.97	
			<i>For >200 To 500, Add</i>	0.99	
			<i>For 12" On Center, Add</i>	1.25	
			<i>For 24" On Center, Deduct</i>	-1.25	
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....8.79		1.31
			<i>For Walls >10' High, Add</i>	1.76	
			<i>For Curved Wall, Add</i>	0.91	
			<i>For Up To 200, Add</i>	2.36	
			<i>For >200 To 500, Add</i>	1.18	
			<i>For 12" On Center, Add</i>	1.61	
			<i>For 24" On Center, Deduct</i>	-1.61	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....9.67		1.43
			<i>For Walls >10' High, Add</i>	1.93	
			<i>For Curved Wall, Add</i>	0.95	
			<i>For Up To 200, Add</i>	2.57	
			<i>For >200 To 500, Add</i>	1.28	
			<i>For 12" On Center, Add</i>	1.78	
			<i>For 24" On Center, Deduct</i>	-1.78	
05 41 00 00-0013			14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)		
05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....7.87		1.49
			<i>For Walls >10' High, Add</i>	1.57	
			<i>For Curved Wall, Add</i>	1.00	
			<i>For Up To 200, Add</i>	2.24	
			<i>For >200 To 500, Add</i>	1.12	
			<i>For 12" On Center, Add</i>	1.41	
			<i>For 24" On Center, Deduct</i>	-1.41	
05 41 00 00-0015	SF		4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....8.08		1.52
			<i>For Walls >10' High, Add</i>	1.62	
			<i>For Curved Wall, Add</i>	1.01	
			<i>For Up To 200, Add</i>	2.29	
			<i>For >200 To 500, Add</i>	1.15	
			<i>For 12" On Center, Add</i>	1.45	
			<i>For 24" On Center, Deduct</i>	-1.45	
05 41 00 00-0016	SF		6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....10.10		1.60
			<i>For Walls >10' High, Add</i>	2.02	
			<i>For Curved Wall, Add</i>	1.07	
			<i>For Up To 200, Add</i>	2.73	
			<i>For >200 To 500, Add</i>	1.37	
			<i>For 12" On Center, Add</i>	1.84	
			<i>For 24" On Center, Deduct</i>	-1.84	
05 41 00 00-0017	SF		8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....11.08		1.67
			<i>For Walls >10' High, Add</i>	2.22	
			<i>For Curved Wall, Add</i>	1.12	
			<i>For Up To 200, Add</i>	2.96	
			<i>For >200 To 500, Add</i>	1.48	
			<i>For 12" On Center, Add</i>	2.03	
			<i>For 24" On Center, Deduct</i>	-2.03	

05 42 Cold-Formed Metal Joist Framing ^(05 40)

05 42 13 Cold-Formed Metal Floor Joist Framing ^(05 42)

Note: Floor or roof joist framing

05 42 13 00-0001 Steel Joists, 20 Gauge ^(05 42 13)

05 42 13 00-0002	LF		5-1/2" - 20 Gauge Steel Joists .....11.21		2.57
05 42 13 00-0003	LF		6" - 20 Gauge Steel Joists .....12.25		3.22
05 42 13 00-0004	LF		7-1/4" - 20 Gauge Steel Joists .....13.24		3.54
05 42 13 00-0005	LF		8" - 20 Gauge Steel Joists .....14.83		3.77

05 42 13 00-0006 Steel Joists, 18 Gauge ^(05 42 13)

05 42 13 00-0007	LF		5-1/2" - 18 Gauge Steel Joists .....12.48		2.85
05 42 13 00-0008	LF		6" - 18 Gauge Steel Joists .....13.68		3.59
05 42 13 00-0009	LF		7-1/4" - 18 Gauge Steel Joists .....14.80		3.93

05 Metals**05 40 Cold-Formed Metal Framing****05 42 Cold-Formed Metal Joist Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	15.25	4.18
05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	15.99	3.97
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	16.89	4.18
05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	19.03	4.18
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	20.67	4.41
05 42 13 00-0017 Steel Joists, 12 Gauge (05 42 13)		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	22.63	4.60
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	24.74	4.85
05 42 13 00-0020 Steel Joists, 10 Gauge (05 42 13)		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	26.28	5.07
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	28.88	5.33
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	30.02	5.57
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	33.05	5.86
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43)		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	11.65	2.46
For Powder Coating, Add	1.01	
For Galvanizing, Add	1.15	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	11.98	2.46
For Powder Coating, Add	1.06	
For Galvanizing, Add	1.20	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	12.48	2.46
For Powder Coating, Add	1.14	
For Galvanizing, Add	1.29	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	11.00	2.46
For Powder Coating, Add	0.91	
For Galvanizing, Add	1.04	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	9.57	2.46
For Powder Coating, Add	0.70	
For Galvanizing, Add	0.79	
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	33.84	2.46
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	40.91	2.46
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	39.15	2.46
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	50.07	2.46
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	56.77	2.46
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel	6.15	0.55
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	7.40	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	8.10	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	8.62	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	11.44	



Metals	05	05
Cold-Formed Metal Framing	05 40	
Slotted Channel Framing	05 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	18.72	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	20.02	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	28.91	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	50.44	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel <small>(05 43)</small>		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	7.42	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	8.20	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	8.66	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	12.25	
05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
Note: Includes hex bolt.		
05 43 00 00-0036 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.02	
05 43 00 00-0037 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	15.99	
05 43 00 00-0038 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	17.55	
05 43 00 00-0039 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	49.10	
05 43 00 00-0040 Beam Clamp For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0041 EA 1-5/8" Channel, P2675 Unistrut Beam Clamp	24.32	8.16
05 43 00 00-0042 EA 1-5/8" Channel, P2676 Unistrut Beam Clamp	31.77	8.16
05 43 00 00-0043 EA Add For Unistrut Swivel Nut, P2676	4.06	
05 43 00 00-0044 Beam Clamp Clevis Hangers For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0045 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	26.90	8.16
05 43 00 00-0046 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	32.84	8.16
05 43 00 00-0047 EA Add For Unistrut Swivel Nut	4.06	
05 43 00 00-0048 EA 6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut	179.63	10.87
05 43 00 00-0049 Accessories For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0050 EA Trolley Truck Hanger, 1-5/8" Channel P1834	58.81	8.16
05 43 00 00-0051 EA Flat Plate Fitting, One Hole, 1-5/8" Channel P1064	14.42	5.44
05 43 00 00-0052 EA 60 Degree Angle, 1-5/8" Channel P2097	15.12	5.44
05 43 00 00-0053 Bases For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0054 Steel Bases For Unistrut Channel <small>(05 43 00 00-0053)</small>		
Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0055 EA 6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel	118.23	27.20
05 43 00 00-0056 EA 6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel	119.78	27.20
05 43 00 00-0057 EA 6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel	170.11	27.20
05 43 00 00-0058 EA 6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel	140.81	27.20
05 43 00 00-0059 Stainless Steel Bases For Unistrut Channel <small>(05 43 00 00-0053)</small>		
Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0060 EA 6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel	228.69	27.20
05 43 00 00-0061 EA 6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel	416.86	27.20
05 43 00 00-0062 EA 6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel	317.12	27.20
05 43 00 00-0063 EA 6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel	469.33	27.20
05 43 00 00-0064 EA 6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel	412.46	27.20
05 45 Metal Support Assemblies <small>(05 40)</small>		
05 45 16 Electrical Metal Supports <small>(05 45)</small>		
See CSI section 26 05 29 00-0000 for metal supports.		
05 50 Metal Fabrications <small>(05)</small>		
05 51 Metal Stairs <small>(05 50)</small>		
05 51 13 Metal Pan Stairs <small>(05 51)</small>		
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing <small>(05 51 13)</small>		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	1,154.33	31.72
For Closed Riser, Add	134.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,311.05	37.01
For Closed Riser, Add	152.25	
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,458.97	43.35
For Closed Riser, Add	169.13	
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing	84.19	5.28
Note: Conventional shape.		
05 51 19 Metal Grating Stairs (05 51)		
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19)		
Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair	552.43	42.30
For Closed Riser, Add	67.16	
For Galvanized Steel, Add	116.96	
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair	587.39	48.63
For Closed Riser, Add	71.01	
For Galvanized Steel, Add	122.53	
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair	648.86	57.10
For Closed Riser, Add	78.07	
For Galvanized Steel, Add	133.67	
05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail	101.35	5.28
Note: Conventional shape.		
For Galvanized Steel, Add	20.05	
05 51 33 Metal Ladders (05 51)		
Note: Includes factory prime.		
05 51 33 13 Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001 Vertical Ladders (05 51 33 13)		
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002 VLF 20" Wide Fixed Vertical Steel Ladder Primed	105.03	12.68
For Galvanized Steel, Add	16.31	
For Aluminum, Add	32.61	
05 51 33 13-0003 VLF 24" Wide Fixed Vertical Steel Ladder Primed	121.56	12.68
For Galvanized Steel, Add	20.44	
For Aluminum, Add	40.88	
05 51 33 13-0004 VLF 20" Wide Fixed Vertical Steel Caged Ladder Primed	256.86	21.15
For Galvanized Steel, Add	47.37	
For Aluminum, Add	94.73	
05 51 33 13-0005 VLF 24" Wide Fixed Vertical Steel Caged Ladder Primed	289.91	21.15
For Galvanized Steel, Add	55.63	
For Aluminum, Add	111.26	
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)		
05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	440.51	39.65
Note: Extends 42" above landing surface. Includes mounting bracket.		
For Galvanized Steel, Add	90.30	
For Aluminum, Add	180.61	
05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	482.99	42.30
Note: Extends 42" above landing surface. Includes mounting bracket.		
For Galvanized Steel, Add	99.60	
For Aluminum, Add	199.20	
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp	542.87	13.22
05 51 33 13-0010 EA 6' Powder Coated, Security Ladder Guard	1,441.44	79.30
05 51 33 13-0011 EA 8' Powder Coated, Security Ladder Guard	1,725.50	92.51
05 51 33 13-0012 EA Safety Chain Attachment	265.50	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0015 EA 7'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,439.04	158.60
05 51 33 13-0016 EA 8'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,653.24	163.89
05 51 33 13-0017 EA 9'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,823.18	169.17
05 51 33 13-0018 EA 10'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,004.91	174.45
05 51 33 13-0019 EA 11'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,109.92	179.75
05 51 33 13-0020 EA 12'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,282.81	185.03
05 51 33 13-0021 EA 13'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,435.02	190.32
05 51 33 13-0022 EA 14'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,634.47	195.60
05 51 33 13-0023 EA 15'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,828.01	200.90
05 51 33 13-0024 EA 16'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,986.14	206.18
05 51 33 13-0025 EA 17'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,179.68	211.47
05 51 33 13-0026 EA 18'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,367.33	216.75
05 51 33 13-0027 EA 19'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,552.01	222.04
05 51 33 13-0028 EA 20'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,890.16	227.33
05 51 33 13-0029 EA 21'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,989.26	232.61
05 51 33 13-0030 EA 22'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,162.14	237.90
05 51 33 13-0031 EA 23'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,320.27	243.18
05 51 33 13-0032 EA 24'-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,466.59	248.48



	Metals	05
	Metal Fabrications	05 50
	Metal Stairs	05 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 51 33 13-0033	EA		25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,795.89	253.76
05 51 33 13-0034	EA		26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,971.72	259.04
05 51 33 13-0035	EA		27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	6,135.76	264.33

05 51 33 13-0036 Welded Stainless Steel Ladder Cages (05 51 33 13-0013)

05 51 33 13-0037	EA		7-1/2' Length, Welded Stainless Steel Ladder Cage	6,195.79	158.60
05 51 33 13-0038	EA		8-1/2' Length, Welded Stainless Steel Ladder Cage	6,622.47	163.89
05 51 33 13-0039	EA		9-1/2' Length, Welded Stainless Steel Ladder Cage	7,335.41	169.17
05 51 33 13-0040	EA		10-1/2' Length, Welded Stainless Steel Ladder Cage	7,685.35	174.45
05 51 33 13-0041	EA		11-1/2' Length, Welded Stainless Steel Ladder Cage	7,979.23	179.75
05 51 33 13-0042	EA		12-1/2' Length, Welded Stainless Steel Ladder Cage	8,370.50	185.03
05 51 33 13-0043	EA		13-1/2' Length, Welded Stainless Steel Ladder Cage	9,077.52	190.32
05 51 33 13-0044	EA		14-1/2' Length, Welded Stainless Steel Ladder Cage	9,433.38	195.60
05 51 33 13-0045	EA		15-1/2' Length, Welded Stainless Steel Ladder Cage	9,801.03	200.90
05 51 33 13-0046	EA		16-1/2' Length, Welded Stainless Steel Ladder Cage	10,204.11	206.18
05 51 33 13-0047	EA		17-1/2' Length, Welded Stainless Steel Ladder Cage	10,925.89	211.47
05 51 33 13-0048	EA		18-1/2' Length, Welded Stainless Steel Ladder Cage	11,284.70	216.75
05 51 33 13-0049	EA		19-1/2' Length, Welded Stainless Steel Ladder Cage	11,625.80	222.04
05 51 33 13-0050	EA		20-1/2' Length, Welded Stainless Steel Ladder Cage	12,194.14	227.33
05 51 33 13-0051	EA		21-1/2' Length, Welded Stainless Steel Ladder Cage	12,833.28	232.61
05 51 33 13-0052	EA		22-1/2' Length, Welded Stainless Steel Ladder Cage	13,186.18	237.90
05 51 33 13-0053	EA		23-1/2' Length, Welded Stainless Steel Ladder Cage	13,547.94	243.18
05 51 33 13-0054	EA		24-1/2' Length, Welded Stainless Steel Ladder Cage	13,886.08	248.48
05 51 33 13-0055	EA		25-1/2' Length, Welded Stainless Steel Ladder Cage	14,761.33	253.76
05 51 33 13-0056	EA		26-1/2' Length, Welded Stainless Steel Ladder Cage	15,099.48	259.04
05 51 33 13-0057	EA		27-1/2' Length, Welded Stainless Steel Ladder Cage	15,446.48	264.33

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)

Note: Includes factory prime.

05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side	385.75	52.86
			<i>For Aluminum, Add</i>	140.01	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA		4' Vertical Height Aluminum Alternating Tread Ladder	2,746.42	158.60
			<i>For Stainless Steel, Add</i>	266.13	
			<i>For Primed Steel, Deduct</i>	-221.78	
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	3,158.11	168.12
			<i>For Stainless Steel, Add</i>	324.28	
			<i>For Primed Steel, Deduct</i>	-252.93	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	3,525.23	168.12
			<i>For Stainless Steel, Add</i>	384.97	
			<i>For Primed Steel, Deduct</i>	-281.33	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	4,005.77	211.25
			<i>For Stainless Steel, Add</i>	445.62	
			<i>For Primed Steel, Deduct</i>	-305.33	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	4,412.53	218.74
			<i>For Stainless Steel, Add</i>	515.67	
			<i>For Primed Steel, Deduct</i>	-331.50	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	4,736.92	218.74
			<i>For Stainless Steel, Add</i>	581.12	
			<i>For Primed Steel, Deduct</i>	-350.68	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder	5,198.04	244.00
			<i>For Stainless Steel, Add</i>	657.71	
			<i>For Primed Steel, Deduct</i>	-372.70	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder	5,561.49	244.00
			<i>For Stainless Steel, Add</i>	735.96	
			<i>For Primed Steel, Deduct</i>	-391.72	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder	5,844.26	244.00
			<i>For Stainless Steel, Add</i>	804.95	
			<i>For Primed Steel, Deduct</i>	-402.47	

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52	13 00-0003	LF	1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.65	10.57
			<i>For Schedule 80 Handrail, Add</i>	8.17	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-3.63	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.13	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-5.45	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-6.44	
			<i>For ADA Handrail P-Loop End Return, Add Per Each</i>	59.23	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.13	
			<i>For Aluminum, Satin Finish, Add</i>	6.93	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	10.73	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	12.38	
			<i>For Galvanizing, Add</i>	6.60	
			<i>For Wrought Iron, Add</i>	3.77	
			<i>For Solid Steel Rails, Add</i>	7.53	
			<i>For 304 Stainless Steel, Add</i>	52.80	
			<i>For 316 Stainless Steel, Add</i>	59.40	
			<i>For 2" Wheel Guard, Add</i>	1.57	
			<i>For 4" High Kick Plate, Add</i>	2.06	
			<i>For 6" High Kick Plate, Add</i>	3.30	
			<i>For Curved Rail, Add</i>	16.25	
			<i>For Mounting On Stairs, Add</i>	11.30	
			<i>For Mounting On Slopes, Add</i>	3.77	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.62	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.67	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	13.54	
			<i>For Nylon Coating, Add</i>	2.48	
05 52	13 00-0004	LF	1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	40.49	10.57
			<i>For Schedule 80 Handrail, Add</i>	14.17	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.25	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.84	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.38	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.54	
			<i>For ADA Handrail P-Loop End Return, Add Per Each</i>	74.69	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	15.84	
			<i>For Aluminum, Satin Finish, Add</i>	8.12	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	12.57	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	14.51	
			<i>For Galvanizing, Add</i>	7.74	
			<i>For Wrought Iron, Add</i>	4.05	
			<i>For Solid Steel Rails, Add</i>	8.10	
			<i>For 304 Stainless Steel, Add</i>	61.89	
			<i>For 316 Stainless Steel, Add</i>	69.62	
			<i>For 2" Wheel Guard, Add</i>	1.84	
			<i>For 4" High Kick Plate, Add</i>	2.42	
			<i>For 6" High Kick Plate, Add</i>	3.87	
			<i>For Curved Rail, Add</i>	17.95	
			<i>For Mounting On Stairs, Add</i>	12.15	
			<i>For Mounting On Slopes, Add</i>	4.05	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.62	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.67	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	14.96	
			<i>For Nylon Coating, Add</i>	2.90	
05 52	13 00-0005	LF	1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	43.34	10.57
			<i>For Schedule 80 Handrail, Add</i>	14.17	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.88	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.55	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.32	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.65	
			<i>For ADA Handrail P-Loop End Return, Add Per Each</i>	86.57	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	17.54	
			<i>For Aluminum, Satin Finish, Add</i>	9.32	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	14.42	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	16.64	
			<i>For Galvanizing, Add</i>	8.88	
			<i>For Wrought Iron, Add</i>	4.33	
			<i>For Solid Steel Rails, Add</i>	8.67	
			<i>For 304 Stainless Steel, Add</i>	71.01	
			<i>For 316 Stainless Steel, Add</i>	79.88	
			<i>For 2" Wheel Guard, Add</i>	2.11	
			<i>For 4" High Kick Plate, Add</i>	2.77	
			<i>For 6" High Kick Plate, Add</i>	4.44	
			<i>For Curved Rail, Add</i>	19.66	
			<i>For Mounting On Stairs, Add</i>	13.00	
			<i>For Mounting On Slopes, Add</i>	4.33	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.62	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.67	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	16.38	
			<i>For Nylon Coating, Add</i>	3.33	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	48.27	10.57
For Schedule 80 Handrail, Add	16.59	
For 11 Gauge A513 Steel Tubing, Deduct	-5.97	
For 12 Gauge A513 Steel Tubing, Deduct	-6.78	
For 14 Gauge A513 Steel Tubing, Deduct	-8.95	
For 16 Gauge A513 Steel Tubing, Deduct	-10.58	
For ADA Handrail P-Loop End Return, Add Per Each	110.18	
For Additional Off Set Handrail, ADA Attachment, Add	20.50	
For Aluminum, Satin Finish, Add	11.39	
For Aluminum, Clear Anodized Finish, Add	17.63	
For Aluminum, Dark Anodized Finish, Add	20.34	
For Galvanizing, Add	10.85	
For Wrought Iron, Add	4.83	
For Solid Steel Rails, Add	9.65	
For 304 Stainless Steel, Add	86.78	
For 316 Stainless Steel, Add	97.63	
For 2" Wheel Guard, Add	2.58	
For 4" High Kick Plate, Add	3.39	
For 6" High Kick Plate, Add	5.42	
For Curved Rail, Add	22.62	
For Mounting On Stairs, Add	14.48	
For Mounting On Slopes, Add	4.83	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	18.85	
For Nylon Coating, Add	4.07	
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	54.18	10.57
For Schedule 80 Handrail, Add	19.04	
For 11 Gauge A513 Steel Tubing, Deduct	-7.27	
For 12 Gauge A513 Steel Tubing, Deduct	-8.26	
For 14 Gauge A513 Steel Tubing, Deduct	-10.90	
For 16 Gauge A513 Steel Tubing, Deduct	-12.88	
For ADA Handrail P-Loop End Return, Add Per Each	162.84	
For Additional Off Set Handrail, ADA Attachment, Add	24.05	
For Aluminum, Satin Finish, Add	13.87	
For Aluminum, Clear Anodized Finish, Add	21.47	
For Aluminum, Dark Anodized Finish, Add	24.77	
For Galvanizing, Add	13.21	
For Wrought Iron, Add	5.42	
For Solid Steel Rails, Add	10.84	
For 304 Stainless Steel, Add	105.70	
For 316 Stainless Steel, Add	118.91	
For 2" Wheel Guard, Add	3.14	
For 4" High Kick Plate, Add	4.13	
For 6" High Kick Plate, Add	6.61	
For Curved Rail, Add	26.16	
For Mounting On Stairs, Add	16.25	
For Mounting On Slopes, Add	5.42	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	21.80	
For Nylon Coating, Add	4.95	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and two rails.		



MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0009	LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.02	10.57
	For Schedule 80 Handrail, Add	8.17	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 11 Gauge A513 Steel Tubing, Deduct	-6.35	
	For 12 Gauge A513 Steel Tubing, Deduct	-7.22	
	For 14 Gauge A513 Steel Tubing, Deduct	-9.53	
	For 16 Gauge A513 Steel Tubing, Deduct	-11.26	
	For ADA Handrail P-Loop End Return, Add Per Each	59.23	
	For Additional Off Set Handrail, ADA Attachment, Add	14.13	
	For Aluminum, Satin Finish, Add	12.13	
	For Aluminum, Clear Anodized Finish, Add	18.77	
	For Aluminum, Dark Anodized Finish, Add	21.65	
	For Galvanizing, Add	11.55	
	For Wrought Iron, Add	5.00	
	For Solid Steel Rails, Add	10.00	
	For 304 Stainless Steel, Add	92.38	
	For 316 Stainless Steel, Add	103.93	
	For 2" Wheel Guard, Add	2.74	
	For 4" High Kick Plate, Add	3.61	
	For 6" High Kick Plate, Add	5.77	
	For Curved Rail, Add	23.67	
	For Mounting On Stairs, Add	15.01	
	For Mounting On Slopes, Add	5.00	
	For Post Base Flange With Screws, Add Per Post	19.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
	For Custom Design Or Shapes (Square Tops, etc), Add	19.72	
	For Nylon Coating, Add	4.33	
05 52 13 00-0010	LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	55.00	10.57
	For Schedule 80 Handrail, Add	14.17	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 11 Gauge A513 Steel Tubing, Deduct	-7.45	
	For 12 Gauge A513 Steel Tubing, Deduct	-8.46	
	For 14 Gauge A513 Steel Tubing, Deduct	-11.17	
	For 16 Gauge A513 Steel Tubing, Deduct	-13.20	
	For ADA Handrail P-Loop End Return, Add Per Each	74.69	
	For Additional Off Set Handrail, ADA Attachment, Add	15.84	
	For Aluminum, Satin Finish, Add	14.22	
	For Aluminum, Clear Anodized Finish, Add	22.00	
	For Aluminum, Dark Anodized Finish, Add	25.39	
	For Galvanizing, Add	13.54	
	For Wrought Iron, Add	5.50	
	For Solid Steel Rails, Add	11.00	
	For 304 Stainless Steel, Add	108.32	
	For 316 Stainless Steel, Add	121.86	
	For 2" Wheel Guard, Add	3.22	
	For 4" High Kick Plate, Add	4.23	
	For 6" High Kick Plate, Add	6.77	
	For Curved Rail, Add	26.66	
	For Mounting On Stairs, Add	16.50	
	For Mounting On Slopes, Add	5.50	
	For Post Base Flange With Screws, Add Per Post	19.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
	For Custom Design Or Shapes (Square Tops, etc), Add	22.21	
	For Nylon Coating, Add	5.08	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	59.97	10.57
For Schedule 80 Handrail, Add	14.17	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
For 11 Gauge A513 Steel Tubing, Deduct	-8.54	
For 12 Gauge A513 Steel Tubing, Deduct	-9.71	
For 14 Gauge A513 Steel Tubing, Deduct	-12.81	
For 16 Gauge A513 Steel Tubing, Deduct	-15.14	
For ADA Handrail P-Loop End Return, Add Per Each	86.57	
For Additional Off Set Handrail, ADA Attachment, Add	17.54	
For Aluminum, Satin Finish, Add	16.30	
For Aluminum, Clear Anodized Finish, Add	25.23	
For Aluminum, Dark Anodized Finish, Add	29.12	
For Galvanizing, Add	15.53	
For Wrought Iron, Add	6.00	
For Solid Steel Rails, Add	11.99	
For 304 Stainless Steel, Add	124.22	
For 316 Stainless Steel, Add	139.75	
For 2" Wheel Guard, Add	3.69	
For 4" High Kick Plate, Add	4.85	
For 6" High Kick Plate, Add	7.76	
For Curved Rail, Add	29.64	
For Mounting On Stairs, Add	17.99	
For Mounting On Slopes, Add	6.00	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	24.70	
For Nylon Coating, Add	5.82	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	68.59	10.57
For Schedule 80 Handrail, Add	16.59	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.15	
For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	89.24	
For 11 Gauge A513 Steel Tubing, Deduct	-10.44	
For 12 Gauge A513 Steel Tubing, Deduct	-11.86	
For 14 Gauge A513 Steel Tubing, Deduct	-15.66	
For 16 Gauge A513 Steel Tubing, Deduct	-18.50	
For ADA Handrail P-Loop End Return, Add Per Each	110.18	
For Additional Off Set Handrail, ADA Attachment, Add	20.50	
For Aluminum, Satin Finish, Add	19.92	
For Aluminum, Clear Anodized Finish, Add	30.84	
For Aluminum, Dark Anodized Finish, Add	35.58	
For Galvanizing, Add	18.98	
For Wrought Iron, Add	6.86	
For Solid Steel Rails, Add	13.72	
For 304 Stainless Steel, Add	151.81	
For 316 Stainless Steel, Add	170.78	
For 2" Wheel Guard, Add	4.51	
For 4" High Kick Plate, Add	5.93	
For 6" High Kick Plate, Add	9.49	
For Curved Rail, Add	34.81	
For Mounting On Stairs, Add	20.58	
For Mounting On Slopes, Add	6.86	
For Post Base Flange With Screws, Add Per Post	19.62	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	29.01	
For Nylon Coating, Add	7.12	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 52 13 00-0013	LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing78.93 <i>For Schedule 80 Handrail, Add</i> 19.04 <i>For 1/2" Diameter Pickets, >2" To 3" On Center, Add</i> 49.30 <i>For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 36.32 <i>For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 23.35 <i>For 3/4" Diameter Pickets, >2" To 3" On Center, Add</i> 61.91 <i>For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 45.62 <i>For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 29.33 <i>For 1" Diameter Pickets, >2" To 3" On Center, Add</i> 86.96 <i>For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 64.08 <i>For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 41.19 <i>For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 86.77 <i>For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 59.43 <i>For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 101.76 <i>For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 69.07 <i>For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 133.15 <i>For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 89.24 <i>For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 135.58 <i>For 11 Gauge A513 Steel Tubing, Deduct</i> -12.71 <i>For 12 Gauge A513 Steel Tubing, Deduct</i> -14.45 <i>For 14 Gauge A513 Steel Tubing, Deduct</i> -19.07 <i>For 16 Gauge A513 Steel Tubing, Deduct</i> -22.53 <i>For ADA Handrail P-Loop End Return, Add Per Each</i> 162.84 <i>For Additional Off Set Handrail, ADA Attachment, Add</i> 24.05 <i>For Aluminum, Satin Finish, Add</i> 24.27 <i>For Aluminum, Clear Anodized Finish, Add</i> 37.56 <i>For Aluminum, Dark Anodized Finish, Add</i> 43.34 <i>For Galvanizing, Add</i> 23.11 <i>For Wrought Iron, Add</i> 7.89 <i>For Solid Steel Rails, Add</i> 15.79 <i>For 304 Stainless Steel, Add</i> 184.90 <i>For 316 Stainless Steel, Add</i> 208.01 <i>For 2" Wheel Guard, Add</i> 5.49 <i>For 4" High Kick Plate, Add</i> 7.22 <i>For 6" High Kick Plate, Add</i> 11.56 <i>For Curved Rail, Add</i> 41.01 <i>For Mounting On Stairs, Add</i> 23.68 <i>For Mounting On Slopes, Add</i> 7.89 <i>For Post Base Flange With Screws, Add Per Post</i> 19.62 <i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i> 29.67 <i>For Custom Design Or Shapes (Square Tops, etc), Add</i> 34.18 <i>For Nylon Coating, Add</i> 8.67	10.57
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05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and three rails.

05 52 13 00-0015	LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing78.43 <i>For Schedule 80 Handrail, Add</i> 11.45 <i>For 1/2" Diameter Pickets, >2" To 3" On Center, Add</i> 49.30 <i>For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 36.32 <i>For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 23.35 <i>For 3/4" Diameter Pickets, >2" To 3" On Center, Add</i> 61.91 <i>For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 45.62 <i>For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 29.33 <i>For 1" Diameter Pickets, >2" To 3" On Center, Add</i> 86.96 <i>For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add</i> 64.08 <i>For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add</i> 41.19 <i>For 11 Gauge A513 Steel Tubing, Deduct</i> -11.67 <i>For 12 Gauge A513 Steel Tubing, Deduct</i> -13.26 <i>For 14 Gauge A513 Steel Tubing, Deduct</i> -17.51 <i>For 16 Gauge A513 Steel Tubing, Deduct</i> -20.69 <i>For ADA Handrail P-Loop End Return, Add Per Each</i> 59.23 <i>For Additional Off Set Handrail, ADA Attachment, Add</i> 14.98 <i>For Aluminum, Satin Finish, Add</i> 22.28 <i>For Aluminum, Clear Anodized Finish, Add</i> 34.48 <i>For Aluminum, Dark Anodized Finish, Add</i> 39.79 <i>For Galvanizing, Add</i> 21.22 <i>For Wrought Iron, Add</i> 7.84 <i>For Solid Steel Rails, Add</i> 15.69 <i>For 304 Stainless Steel, Add</i> 169.76 <i>For 316 Stainless Steel, Add</i> 190.98 <i>For 2" Wheel Guard, Add</i> 5.04 <i>For 4" High Kick Plate, Add</i> 6.63 <i>For 6" High Kick Plate, Add</i> 10.61 <i>For Curved Rail, Add</i> 39.44 <i>For Mounting On Stairs, Add</i> 23.53 <i>For Mounting On Slopes, Add</i> 7.84 <i>For Post Base Flange With Screws, Add Per Post</i> 20.04 <i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i> 30.31 <i>For Custom Design Or Shapes (Square Tops, etc), Add</i> 32.87 <i>For Nylon Coating, Add</i> 7.96	12.68
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Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	87.56	12.68
For Schedule 80 Handrail, Add	19.45	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
For 11 Gauge A513 Steel Tubing, Deduct	-13.68	
For 12 Gauge A513 Steel Tubing, Deduct	-15.55	
For 14 Gauge A513 Steel Tubing, Deduct	-20.52	
For 16 Gauge A513 Steel Tubing, Deduct	-24.25	
For ADA Handrail P-Loop End Return, Add Per Each	74.69	
For Additional Off Set Handrail, ADA Attachment, Add	16.69	
For Aluminum, Satin Finish, Add	26.12	
For Aluminum, Clear Anodized Finish, Add	40.42	
For Aluminum, Dark Anodized Finish, Add	46.64	
For Galvanizing, Add	24.87	
For Wrought Iron, Add	8.76	
For Solid Steel Rails, Add	17.51	
For 304 Stainless Steel, Add	198.98	
For 316 Stainless Steel, Add	223.85	
For 2" Wheel Guard, Add	5.91	
For 4" High Kick Plate, Add	7.77	
For 6" High Kick Plate, Add	12.44	
For Curved Rail, Add	44.92	
For Mounting On Stairs, Add	26.27	
For Mounting On Slopes, Add	8.76	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	37.44	
For Nylon Coating, Add	9.33	
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	96.69	12.68
For Schedule 80 Handrail, Add	19.45	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
For 11 Gauge A513 Steel Tubing, Deduct	-15.69	
For 12 Gauge A513 Steel Tubing, Deduct	-17.83	
For 14 Gauge A513 Steel Tubing, Deduct	-23.53	
For 16 Gauge A513 Steel Tubing, Deduct	-27.81	
For ADA Handrail P-Loop End Return, Add Per Each	86.57	
For Additional Off Set Handrail, ADA Attachment, Add	18.39	
For Aluminum, Satin Finish, Add	29.95	
For Aluminum, Clear Anodized Finish, Add	46.35	
For Aluminum, Dark Anodized Finish, Add	53.48	
For Galvanizing, Add	28.52	
For Wrought Iron, Add	9.67	
For Solid Steel Rails, Add	19.34	
For 304 Stainless Steel, Add	228.19	
For 316 Stainless Steel, Add	256.72	
For 2" Wheel Guard, Add	6.77	
For 4" High Kick Plate, Add	8.91	
For 6" High Kick Plate, Add	14.26	
For Curved Rail, Add	50.40	
For Mounting On Stairs, Add	29.01	
For Mounting On Slopes, Add	9.67	
For Post Base Flange With Screws, Add Per Post	20.04	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
For Custom Design Or Shapes (Square Tops, etc), Add	42.00	
For Nylon Coating, Add	10.70	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0018	LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	112.57	12.68
	For Schedule 80 Handrail, Add	22.68	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.15	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	89.24	
	For 11 Gauge A513 Steel Tubing, Deduct	-19.18	
	For 12 Gauge A513 Steel Tubing, Deduct	-21.80	
	For 14 Gauge A513 Steel Tubing, Deduct	-28.77	
	For 16 Gauge A513 Steel Tubing, Deduct	-34.00	
	For ADA Handrail P-Loop End Return, Add Per Each	110.18	
	For Additional Off Set Handrail, ADA Attachment, Add	21.35	
	For Aluminum, Satin Finish, Add	36.62	
	For Aluminum, Clear Anodized Finish, Add	56.67	
	For Aluminum, Dark Anodized Finish, Add	65.39	
	For Galvanizing, Add	34.88	
	For Wrought Iron, Add	11.26	
	For Solid Steel Rails, Add	22.51	
	For 304 Stainless Steel, Add	279.01	
	For 316 Stainless Steel, Add	313.88	
	For 2" Wheel Guard, Add	8.28	
	For 4" High Kick Plate, Add	10.90	
	For 6" High Kick Plate, Add	17.44	
	For Curved Rail, Add	59.93	
	For Mounting On Stairs, Add	33.77	
	For Mounting On Slopes, Add	11.26	
	For Post Base Flange With Screws, Add Per Post	20.04	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
	For Custom Design Or Shapes (Square Tops, etc), Add	49.94	
	For Nylon Coating, Add	13.08	
05 52 13 00-0019	LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	131.47	12.68
	For Schedule 80 Handrail, Add	25.95	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.15	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	89.24	
	For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	135.58	
	For 11 Gauge A513 Steel Tubing, Deduct	-23.34	
	For 12 Gauge A513 Steel Tubing, Deduct	-26.52	
	For 14 Gauge A513 Steel Tubing, Deduct	-35.01	
	For 16 Gauge A513 Steel Tubing, Deduct	-41.38	
	For ADA Handrail P-Loop End Return, Add Per Each	162.84	
	For Additional Off Set Handrail, ADA Attachment, Add	24.90	
	For Aluminum, Satin Finish, Add	44.56	
	For Aluminum, Clear Anodized Finish, Add	68.96	
	For Aluminum, Dark Anodized Finish, Add	79.57	
	For Galvanizing, Add	42.44	
	For Wrought Iron, Add	13.15	
	For Solid Steel Rails, Add	26.29	
	For 304 Stainless Steel, Add	339.49	
	For 316 Stainless Steel, Add	381.92	
	For 2" Wheel Guard, Add	10.08	
	For 4" High Kick Plate, Add	13.26	
	For 6" High Kick Plate, Add	21.22	
	For Curved Rail, Add	71.27	
	For Mounting On Stairs, Add	39.44	
	For Mounting On Slopes, Add	13.15	
	For Post Base Flange With Screws, Add Per Post	20.04	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
	For Custom Design Or Shapes (Square Tops, etc), Add	59.39	
	For Nylon Coating, Add	15.91	
05 52 13 00-0020	Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
	Note: Includes factory primed posts and four rails.		



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0021	LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	94.70	14.80
	For Schedule 80 Handrail, Add	14.98	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 11 Gauge A513 Steel Tubing, Deduct	-14.32	
	For 12 Gauge A513 Steel Tubing, Deduct	-16.28	
	For 14 Gauge A513 Steel Tubing, Deduct	-21.48	
	For 16 Gauge A513 Steel Tubing, Deduct	-25.39	
	For ADA Handrail P-Loop End Return, Add Per Each	59.23	
	For Additional Off Set Handrail, ADA Attachment, Add	15.82	
	For Aluminum, Satin Finish, Add	27.34	
	For Aluminum, Clear Anodized Finish, Add	42.32	
	For Aluminum, Dark Anodized Finish, Add	48.83	
	For Galvanizing, Add	26.04	
	For Wrought Iron, Add	9.47	
	For Solid Steel Rails, Add	18.94	
	For 304 Stainless Steel, Add	208.32	
	For 316 Stainless Steel, Add	234.36	
	For 2" Wheel Guard, Add	6.18	
	For 4" High Kick Plate, Add	8.14	
	For 6" High Kick Plate, Add	13.02	
	For Curved Rail, Add	47.94	
	For Mounting On Stairs, Add	28.41	
	For Mounting On Slopes, Add	9.47	
	For Post Base Flange With Screws, Add Per Post	20.46	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
	For Custom Design Or Shapes (Square Tops, etc), Add	39.95	
	For Nylon Coating, Add	9.77	
05 52 13 00-0022	LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	102.81	14.80
	For Schedule 80 Handrail, Add	24.97	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 11 Gauge A513 Steel Tubing, Deduct	-16.11	
	For 12 Gauge A513 Steel Tubing, Deduct	-18.30	
	For 14 Gauge A513 Steel Tubing, Deduct	-24.16	
	For 16 Gauge A513 Steel Tubing, Deduct	-28.55	
	For ADA Handrail P-Loop End Return, Add Per Each	74.69	
	For Additional Off Set Handrail, ADA Attachment, Add	17.53	
	For Aluminum, Satin Finish, Add	30.75	
	For Aluminum, Clear Anodized Finish, Add	47.59	
	For Aluminum, Dark Anodized Finish, Add	54.91	
	For Galvanizing, Add	29.28	
	For Wrought Iron, Add	10.28	
	For Solid Steel Rails, Add	20.56	
	For 304 Stainless Steel, Add	234.27	
	For 316 Stainless Steel, Add	263.56	
	For 2" Wheel Guard, Add	6.95	
	For 4" High Kick Plate, Add	9.15	
	For 6" High Kick Plate, Add	14.64	
	For Curved Rail, Add	52.81	
	For Mounting On Stairs, Add	30.84	
	For Mounting On Slopes, Add	10.28	
	For Post Base Flange With Screws, Add Per Post	20.46	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
	For Custom Design Or Shapes (Square Tops, etc), Add	44.01	
	For Nylon Coating, Add	10.98	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0023	LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	110.92	14.80
	For Schedule 80 Handrail, Add	24.97	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
	For 11 Gauge A513 Steel Tubing, Deduct	-17.89	
	For 12 Gauge A513 Steel Tubing, Deduct	-20.33	
	For 14 Gauge A513 Steel Tubing, Deduct	-26.84	
	For 16 Gauge A513 Steel Tubing, Deduct	-31.71	
	For ADA Handrail P-Loop End Return, Add Per Each	86.57	
	For Additional Off Set Handrail, ADA Attachment, Add	19.23	
	For Aluminum, Satin Finish, Add	34.15	
	For Aluminum, Clear Anodized Finish, Add	52.86	
	For Aluminum, Dark Anodized Finish, Add	60.99	
	For Galvanizing, Add	32.53	
	For Wrought Iron, Add	11.09	
	For Solid Steel Rails, Add	22.18	
	For 304 Stainless Steel, Add	260.22	
	For 316 Stainless Steel, Add	292.75	
	For 2" Wheel Guard, Add	7.73	
	For 4" High Kick Plate, Add	10.17	
	For 6" High Kick Plate, Add	16.26	
	For Curved Rail, Add	57.67	
	For Mounting On Stairs, Add	33.28	
	For Mounting On Slopes, Add	11.09	
	For Post Base Flange With Screws, Add Per Post	20.46	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
	For Custom Design Or Shapes (Square Tops, etc), Add	48.06	
	For Nylon Coating, Add	12.20	
05 52 13 00-0024	LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	128.99	14.80
	For Schedule 80 Handrail, Add	29.01	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.15	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	89.24	
	For 11 Gauge A513 Steel Tubing, Deduct	-21.87	
	For 12 Gauge A513 Steel Tubing, Deduct	-24.85	
	For 14 Gauge A513 Steel Tubing, Deduct	-32.80	
	For 16 Gauge A513 Steel Tubing, Deduct	-38.76	
	For ADA Handrail P-Loop End Return, Add Per Each	110.18	
	For Additional Off Set Handrail, ADA Attachment, Add	22.19	
	For Aluminum, Satin Finish, Add	41.74	
	For Aluminum, Clear Anodized Finish, Add	64.60	
	For Aluminum, Dark Anodized Finish, Add	74.54	
	For Galvanizing, Add	39.76	
	For Wrought Iron, Add	12.90	
	For Solid Steel Rails, Add	25.80	
	For 304 Stainless Steel, Add	318.05	
	For 316 Stainless Steel, Add	357.80	
	For 2" Wheel Guard, Add	9.44	
	For 4" High Kick Plate, Add	12.42	
	For 6" High Kick Plate, Add	19.88	
	For Curved Rail, Add	68.51	
	For Mounting On Stairs, Add	38.70	
	For Mounting On Slopes, Add	12.90	
	For Post Base Flange With Screws, Add Per Post	20.46	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
	For Custom Design Or Shapes (Square Tops, etc), Add	57.10	
	For Nylon Coating, Add	14.91	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	150.16	14.80
For Schedule 80 Handrail, Add	33.10	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	49.30	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	36.32	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	23.35	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	61.91	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	45.62	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	29.33	
For 1" Diameter Pickets, >2" To 3" On Center, Add	86.96	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	64.08	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	41.19	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	86.77	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	59.43	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	101.76	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.07	
For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.15	
For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	89.24	
For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	135.58	
For 11 Gauge A513 Steel Tubing, Deduct	-26.52	
For 12 Gauge A513 Steel Tubing, Deduct	-30.14	
For 14 Gauge A513 Steel Tubing, Deduct	-39.78	
For 16 Gauge A513 Steel Tubing, Deduct	-47.02	
For ADA Handrail P-Loop End Return, Add Per Each	162.84	
For Additional Off Set Handrail, ADA Attachment, Add	25.74	
For Aluminum, Satin Finish, Add	50.64	
For Aluminum, Clear Anodized Finish, Add	78.36	
For Aluminum, Dark Anodized Finish, Add	90.42	
For Galvanizing, Add	48.22	
For Wrought Iron, Add	15.02	
For Solid Steel Rails, Add	30.03	
For 304 Stainless Steel, Add	385.79	
For 316 Stainless Steel, Add	434.02	
For 2" Wheel Guard, Add	11.45	
For 4" High Kick Plate, Add	15.07	
For 6" High Kick Plate, Add	24.11	
For Curved Rail, Add	81.22	
For Mounting On Stairs, Add	45.05	
For Mounting On Slopes, Add	15.02	
For Post Base Flange With Screws, Add Per Post	20.46	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
For Custom Design Or Shapes (Square Tops, etc), Add	67.68	
For Nylon Coating, Add	18.08	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	14.97	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.90	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.71	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	28.26	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	14.68	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	15.18	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	16.25	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel	32.61	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel	6.62	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	13.53	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel	17.77	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel	26.50	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	37.96	6.35
For Schedule 80 Handrail, Add	3.70	
For 11 Gauge A513 Steel Tubing, Deduct	-4.86	
For 12 Gauge A513 Steel Tubing, Deduct	-5.53	
For 14 Gauge A513 Steel Tubing, Deduct	-7.29	
For 16 Gauge A513 Steel Tubing, Deduct	-8.62	
For Stainless Steel, Add	44.20	
For Aluminum, Satin Finish, Add	9.28	
For Curved Rail, Add	11.39	
For Aluminum, Clear Anodized Finish, Add	14.37	
For Aluminum, Dark Anodized Finish, Add	16.58	
For Galvanized Finish, Add	6.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	38.67	6.35
			<i>For Schedule 80 Handrail, Add</i>	4.68	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.02	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.70	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.53	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.90	
			<i>For Stainless Steel, Add</i>	45.62	
			<i>For Aluminum, Satin Finish, Add</i>	9.58	
			<i>For Curved Rail, Add</i>	11.60	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	14.83	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	17.11	
			<i>For Galvanized Finish, Add</i>	6.84	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.39	6.35
			<i>For Schedule 80 Handrail, Add</i>	18.02	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.18	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.88	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.76	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-9.18	
			<i>For Stainless Steel, Add</i>	47.06	
			<i>For Aluminum, Satin Finish, Add</i>	9.88	
			<i>For Curved Rail, Add</i>	11.82	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	15.29	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	17.65	
			<i>For Galvanized Finish, Add</i>	7.06	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	47.58	6.35
			<i>For Schedule 80 Handrail, Add</i>	6.50	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.98	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.93	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.47	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-12.37	
			<i>For Stainless Steel, Add</i>	63.44	
			<i>For Aluminum, Satin Finish, Add</i>	13.32	
			<i>For Curved Rail, Add</i>	14.27	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	20.62	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	23.79	
			<i>For Galvanized Finish, Add</i>	9.52	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	54.36	6.35
			<i>For Schedule 80 Handrail, Add</i>	7.32	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-8.47	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.63	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-12.71	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-15.02	
			<i>For Stainless Steel, Add</i>	77.00	
			<i>For Aluminum, Satin Finish, Add</i>	16.17	
			<i>For Curved Rail, Add</i>	16.31	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	25.03	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	28.88	
			<i>For Galvanized Finish, Add</i>	11.55	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	46.34	6.66
			<i>For Schedule 80 Handrail, Add</i>	3.70	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.71	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.62	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.06	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.89	
			<i>For Stainless Steel, Add</i>	60.96	
			<i>For Aluminum, Satin Finish, Add</i>	12.80	
			<i>For Curved Rail, Add</i>	13.90	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.81	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	22.86	
			<i>For Galvanized Finish, Add</i>	9.14	
05 52 13 00-0050	LF		1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	47.34	6.66
			<i>For Schedule 80 Handrail, Add</i>	4.68	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.93	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.87	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.39	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-12.28	
			<i>For Stainless Steel, Add</i>	62.96	
			<i>For Aluminum, Satin Finish, Add</i>	13.22	
			<i>For Curved Rail, Add</i>	14.20	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	20.46	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	23.61	
			<i>For Galvanized Finish, Add</i>	9.44	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	48.08	6.66
For Schedule 80 Handrail, Add	18.02	
For 11 Gauge A513 Steel Tubing, Deduct	-7.09	
For 12 Gauge A513 Steel Tubing, Deduct	-8.06	
For 14 Gauge A513 Steel Tubing, Deduct	-10.63	
For 16 Gauge A513 Steel Tubing, Deduct	-12.57	
For Stainless Steel, Add	64.44	
For Aluminum, Satin Finish, Add	13.53	
For Curved Rail, Add	14.42	
For Aluminum, Clear Anodized Finish, Add	20.94	
For Aluminum, Dark Anodized Finish, Add	24.17	
For Galvanized Finish, Add	9.67	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	59.53	6.66
For Schedule 80 Handrail, Add	6.50	
For 11 Gauge A513 Steel Tubing, Deduct	-9.61	
For 12 Gauge A513 Steel Tubing, Deduct	-10.92	
For 14 Gauge A513 Steel Tubing, Deduct	-14.41	
For 16 Gauge A513 Steel Tubing, Deduct	-17.03	
For Stainless Steel, Add	87.34	
For Aluminum, Satin Finish, Add	18.34	
For Curved Rail, Add	17.86	
For Aluminum, Clear Anodized Finish, Add	28.39	
For Aluminum, Dark Anodized Finish, Add	32.75	
For Galvanized Finish, Add	13.10	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	67.01	6.66
For Schedule 80 Handrail, Add	7.32	
For 11 Gauge A513 Steel Tubing, Deduct	-11.25	
For 12 Gauge A513 Steel Tubing, Deduct	-12.79	
For 14 Gauge A513 Steel Tubing, Deduct	-16.88	
For 16 Gauge A513 Steel Tubing, Deduct	-19.95	
For Stainless Steel, Add	102.30	
For Aluminum, Satin Finish, Add	21.48	
For Curved Rail, Add	20.10	
For Aluminum, Clear Anodized Finish, Add	33.25	
For Aluminum, Dark Anodized Finish, Add	38.36	
For Galvanized Finish, Add	15.35	
05 52 13 00-0054 Remove/Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	23.79	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing.....	32.13	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket.....	64.63	
For Stainless Steel, Add	65.82	

05 53 Metal Gratings (05 50)

05 53 13 Bar Gratings (05 53)

05 53 13 00-0001 Welded Grating (05 53 13)

Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.

05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)

Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.

05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating	14.13	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.01	
For 304 Stainless Steel, Add	37.88	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.45	
For Crossbars At 2" On-Center, Add	1.27	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.86	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating	19.01	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.84	
For 304 Stainless Steel, Add	53.54	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.87	
For Crossbars At 2" On-Center, Add	1.80	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.98	
05 53 13 00-0005 SF 1" x 1/8" Steel, Welded Grating	17.27	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.54	
For 304 Stainless Steel, Add	47.96	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.36	
For Crossbars At 2" On-Center, Add	1.61	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating.....	23.90	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.67	
			For 304 Stainless Steel, Add	69.24	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.30	
			For Crossbars At 2" On-Center, Add	2.33	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.10	
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating.....	30.53	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.79	
			For 304 Stainless Steel, Add	90.52	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	8.23	
			For Crossbars At 2" On-Center, Add	3.05	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.27	
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating.....	20.44	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.08	
			For 304 Stainless Steel, Add	58.13	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.29	
			For Crossbars At 2" On-Center, Add	1.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.01	
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating.....	28.51	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.45	
			For 304 Stainless Steel, Add	84.04	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	7.64	
			For Crossbars At 2" On-Center, Add	2.83	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.22	
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating.....	23.62	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.62	
			For 304 Stainless Steel, Add	68.34	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.22	
			For Crossbars At 2" On-Center, Add	2.30	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating.....	33.88	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.28	
			For 304 Stainless Steel, Add	99.61	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	9.06	
			For Crossbars At 2" On-Center, Add	3.35	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69	
05 53 13 00-0012	SF		1-1/2" x 1/4" Steel, Welded Grating.....	43.97	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.99	
			For 304 Stainless Steel, Add	132.00	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	12.01	
			For Crossbars At 2" On-Center, Add	4.44	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.94	
05 53 13 00-0013	SF		1-3/4" x 3/16" Steel, Welded Grating.....	38.80	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.11	
			For 304 Stainless Steel, Add	115.40	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	10.50	
			For Crossbars At 2" On-Center, Add	3.88	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.81	
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating.....	43.41	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.90	
			For 304 Stainless Steel, Add	130.20	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	11.84	
			For Crossbars At 2" On-Center, Add	4.38	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.92	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	48.29 0.22 7.72 145.86 13.27 4.91 0.16 -3.05	1.43
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	52.90 0.22 8.51 160.66 14.61 5.41 0.16 -3.16	1.43
05 53 13 00-0017			Pressure Locked Grating ^(05 53 13) Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating ^(05 53 13 00-0017) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	26.94 0.22 4.04 46.05 7.19 2.66 -2.18	1.17
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	33.22 0.22 5.07 57.80 9.02 3.34 -2.33	1.17
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	29.62 0.22 4.48 51.06 7.97 2.95 0.16 -2.24	1.17
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 7/16" On-Center, Add For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	40.41 0.22 6.25 71.25 55.22 11.12 4.11 0.16 -2.51	1.17
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	33.22 0.22 5.07 57.80 9.02 3.34 0.16 -2.33	1.17
05 53 13 00-0024	SF		1-1/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	45.40 0.22 7.06 80.58 12.58 4.65 0.16 -2.64	1.17



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0025	SF		1-1/2" x 1/8" Steel, Pressure Locked Grating.....	36.99	1.17
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.68	
			For 304 Stainless Steel, Add	64.85	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	10.12	
			For Crossbars At 2" On-Center, Add	3.74	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.43	
05 53 13 00-0026	SF		1-1/2" x 3/16" Steel, Pressure Locked Grating.....	51.16	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	7.92	
			For 304 Stainless Steel, Add	90.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 7/16" On-Center, Add	70.05	
			For Bearing Bars At 15/16" On-Center, Add	14.11	
			For Crossbars At 2" On-Center, Add	5.22	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.12	
05 53 13 00-0027	SF		1-3/4" x 3/16" Steel, Pressure Locked Grating.....	56.43	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	8.79	
			For 304 Stainless Steel, Add	100.25	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	15.65	
			For Crossbars At 2" On-Center, Add	5.79	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.25	
05 53 13 00-0028	SF		2" x 3/16" Steel, Pressure Locked Grating.....	60.72	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	9.49	
			For 304 Stainless Steel, Add	108.27	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	16.90	
			For Crossbars At 2" On-Center, Add	6.25	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.36	
05 53 13 00-0029	SF		2-1/4" x 3/16" Steel, Pressure Locked Grating.....	64.84	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	10.17	
			For 304 Stainless Steel, Add	115.98	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	18.10	
			For Crossbars At 2" On-Center, Add	6.69	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.46	
05 53 13 00-0030	SF		2-1/2" x 3/16" Steel, Pressure Locked Grating.....	68.40	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	10.75	
			For 304 Stainless Steel, Add	122.64	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	19.14	
			For Crossbars At 2" On-Center, Add	7.08	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.55	
05 53 13 00-0031			Aluminum, Type 6063, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032	SF		3/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.03	1.17
			For Bearing Bars At 15/16" On-Center, Add	4.29	
			For Crossbars At 2" On-Center, Add	1.59	
			For Set In Place Without Bolting, Deduct	-1.93	
			For Powder Coating, Add	2.21	
05 53 13 00-0033	SF		3/4" x 3/16" Aluminum, Pressure Locked Grating.....	23.06	1.17
			For Bearing Bars At 15/16" On-Center, Add	6.05	
			For Crossbars At 2" On-Center, Add	2.24	
			For Set In Place Without Bolting, Deduct	-2.08	
			For Powder Coating, Add	3.11	
05 53 13 00-0034	SF		1" x 1/8" Aluminum, Pressure Locked Grating.....	21.76	1.17
			For Bearing Bars At 15/16" On-Center, Add	5.67	
			For Crossbars At 2" On-Center, Add	2.10	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.05	
			For Powder Coating, Add	2.91	
05 53 13 00-0035	SF		1" x 3/16" Aluminum, Pressure Locked Grating.....	29.55	1.17
			For Bearing Bars At 7/16" On-Center, Add	39.47	
			For Bearing Bars At 15/16" On-Center, Add	7.95	
			For Crossbars At 2" On-Center, Add	2.94	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.24	
			For Powder Coating, Add	4.08	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	25.19	1.17
For Bearing Bars At 15/16" On-Center, Add	6.68	
For Crossbars At 2" On-Center, Add	2.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.13	
For Powder Coating, Add	3.43	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	33.68	1.17
For Bearing Bars At 15/16" On-Center, Add	9.15	
For Crossbars At 2" On-Center, Add	3.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.34	
For Powder Coating, Add	4.70	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	28.41	1.17
For Bearing Bars At 15/16" On-Center, Add	7.62	
For Crossbars At 2" On-Center, Add	2.82	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.21	
For Powder Coating, Add	3.91	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	37.94	1.17
For Bearing Bars At 7/16" On-Center, Add	51.63	
For Bearing Bars At 15/16" On-Center, Add	10.40	
For Crossbars At 2" On-Center, Add	3.85	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.45	
For Powder Coating, Add	5.34	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	42.02	1.17
For Bearing Bars At 15/16" On-Center, Add	11.59	
For Crossbars At 2" On-Center, Add	4.29	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.55	
For Powder Coating, Add	5.95	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating.....	46.85	1.17
For Bearing Bars At 15/16" On-Center, Add	13.00	
For Crossbars At 2" On-Center, Add	4.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.67	
For Powder Coating, Add	6.68	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	50.64	1.17
For Bearing Bars At 15/16" On-Center, Add	14.11	
For Crossbars At 2" On-Center, Add	5.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.77	
For Powder Coating, Add	7.25	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	55.16	1.17
For Bearing Bars At 15/16" On-Center, Add	15.43	
For Crossbars At 2" On-Center, Add	5.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.88	
For Powder Coating, Add	7.92	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....	44.25	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.86	
For 304 Stainless Steel, Add	69.50	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	26.83	
For Crossbars At 2" On-Center, Add	3.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.61	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....	49.41	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.33	
For 304 Stainless Steel, Add	78.06	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	30.13	
For Crossbars At 2" On-Center, Add	3.77	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.74	
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating.....	53.98	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.70	
For 304 Stainless Steel, Add	84.77	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	32.72	
For Crossbars At 2" On-Center, Add	4.09	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating.....	61.91	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.43	
For 304 Stainless Steel, Add	97.92	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	37.80	
For Crossbars At 2" On-Center, Add	4.72	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.39	
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....	69.86	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.16	
For 304 Stainless Steel, Add	111.10	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	42.89	
For Crossbars At 2" On-Center, Add	5.36	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.58	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating.....	77.79	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.89	
For 304 Stainless Steel, Add	124.25	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	47.96	
For Crossbars At 2" On-Center, Add	6.00	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.78	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating.....	85.75	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.63	
For 304 Stainless Steel, Add	137.45	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	53.06	
For Crossbars At 2" On-Center, Add	6.63	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.98	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating.....	20.10	1.17
For Bearing Bars At 15/16" On-Center, Add	11.37	
For Crossbars At 2" On-Center, Add	1.42	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.01	
For Powder Coating, Add	2.67	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating.....	26.05	1.17
For Bearing Bars At 15/16" On-Center, Add	15.18	
For Crossbars At 2" On-Center, Add	1.90	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.15	
For Powder Coating, Add	3.56	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating.....	22.77	1.17
For Bearing Bars At 15/16" On-Center, Add	13.08	
For Crossbars At 2" On-Center, Add	1.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.07	
For Powder Coating, Add	3.07	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating.....	30.05	1.17
For Bearing Bars At 15/16" On-Center, Add	17.74	
For Crossbars At 2" On-Center, Add	2.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.25	
For Powder Coating, Add	4.16	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating.....	25.94	1.17
For Bearing Bars At 15/16" On-Center, Add	15.11	
For Crossbars At 2" On-Center, Add	1.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.15	
For Powder Coating, Add	3.54	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....	34.33	1.17
For Bearing Bars At 15/16" On-Center, Add	20.48	
For Crossbars At 2" On-Center, Add	2.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.36	
For Powder Coating, Add	4.80	
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	39.27	1.17
For Bearing Bars At 15/16" On-Center, Add	23.64	
For Crossbars At 2" On-Center, Add	2.96	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.48	
For Powder Coating, Add	5.54	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	44.18	1.17
For Bearing Bars At 15/16" On-Center, Add	26.78	
For Crossbars At 2" On-Center, Add	3.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.61	
For Powder Coating, Add	6.28	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	49.11	1.17
For Bearing Bars At 15/16" On-Center, Add	29.94	
For Crossbars At 2" On-Center, Add	3.74	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.73	
For Powder Coating, Add	7.02	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	54.02	1.17
For Bearing Bars At 15/16" On-Center, Add	33.08	
For Crossbars At 2" On-Center, Add	4.14	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.85	
For Powder Coating, Add	7.75	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	84.32	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.94	
For 304 Stainless Steel, Add	70.43	
For 5/8" Clear Opening, Add	28.29	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.61	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	99.33	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.66	
For 304 Stainless Steel, Add	83.32	
For 5/8" Clear Opening, Add	33.47	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.99	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	91.23	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.27	
For 304 Stainless Steel, Add	76.37	
For 5/8" Clear Opening, Add	30.67	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.78	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	105.05	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.93	
For 304 Stainless Steel, Add	88.24	
For 5/8" Clear Opening, Add	35.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.13	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	96.95	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.54	
For 304 Stainless Steel, Add	81.28	
For 5/8" Clear Opening, Add	32.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.93	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	115.70	1.17
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.44	
For 304 Stainless Steel, Add	97.38	
For 5/8" Clear Opening, Add	39.11	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.40	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	102.99	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.61	
For 304 Stainless Steel, Add	86.02	
For 5/8" Clear Opening, Add	34.55	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.41	
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	123.02	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.77	
For 304 Stainless Steel, Add	103.23	
For 5/8" Clear Opening, Add	41.46	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.91	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0074	SF		1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	133.25	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.26	
			For 304 Stainless Steel, Add	112.01	
			For 5/8" Clear Opening, Add	44.99	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-5.17	
05 53 13 00-0075	SF		2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating	156.08	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	7.36	
			For 304 Stainless Steel, Add	131.62	
			For 5/8" Clear Opening, Add	52.86	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-5.74	
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating	164.03	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	7.74	
			For 304 Stainless Steel, Add	138.45	
			For 5/8" Clear Opening, Add	55.61	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-5.94	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating	171.12	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	8.08	
			For 304 Stainless Steel, Add	144.54	
			For 5/8" Clear Opening, Add	58.05	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-6.12	
05 53 13 00-0078			Aluminum, Riveted Grating <small>(05 53 13 00-0064)</small>		
			Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating	42.90	1.17
			For 5/8" Clear Opening, Add	14.00	
			For Powder Coating, Add	6.09	
			For Set In Place Without Bolting, Deduct	-2.58	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating	50.93	1.17
			For 5/8" Clear Opening, Add	16.77	
			For Powder Coating, Add	7.29	
			For Set In Place Without Bolting, Deduct	-2.78	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating	47.19	1.17
			For 5/8" Clear Opening, Add	15.48	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	6.73	
			For Set In Place Without Bolting, Deduct	-2.68	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating	55.03	1.17
			For 5/8" Clear Opening, Add	18.18	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	7.91	
			For Set In Place Without Bolting, Deduct	-2.88	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating	52.93	1.17
			For 5/8" Clear Opening, Add	17.46	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	7.59	
			For Set In Place Without Bolting, Deduct	-2.83	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating	63.81	1.17
			For 5/8" Clear Opening, Add	21.21	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	9.22	
			For Set In Place Without Bolting, Deduct	-3.10	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating	56.85	1.17
			For 5/8" Clear Opening, Add	18.81	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	8.18	
			For Set In Place Without Bolting, Deduct	-2.92	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating	70.67	1.17
			For 5/8" Clear Opening, Add	23.58	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	10.25	
			For Set In Place Without Bolting, Deduct	-3.27	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating	77.92	1.17
			For 5/8" Clear Opening, Add	26.08	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	11.34	
			For Set In Place Without Bolting, Deduct	-3.45	
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating	92.80	1.17
			For 5/8" Clear Opening, Add	31.21	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	13.57	
			For Set In Place Without Bolting, Deduct	-3.82	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating	101.25	1.17
			For 5/8" Clear Opening, Add	34.13	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	14.84	
			For Set In Place Without Bolting, Deduct	-4.03	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0090 SF 2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	112.57 38.03 0.16 16.54 -4.32	1.17
05 53 16 Plank Gratings (05 53)		
05 53 16 00-0001 Grate-Lock Steel Plank Grating (05 53 16) Note: Smooth or traction grip surface.		
05 53 16 00-0002 SF 1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	17.68 2.04	0.90
05 53 16 00-0003 SF 2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	18.86 2.22	1.11
05 53 16 00-0004 SF 3" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	19.88 2.35	1.22
05 53 16 00-0005 SF 4" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	21.72 2.57	1.32
05 53 16 00-0006 SF 1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	21.53 2.45	1.00
05 53 16 00-0007 SF 2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	22.90 2.65	1.22
05 53 16 00-0008 SF 1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	26.44 2.99	1.17
05 53 16 00-0009 SF 2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	28.13 3.24	1.43
05 53 16 00-0010 SF 3" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	30.10 3.55	1.80
05 53 16 00-0011 SF 4" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	33.22 3.93	2.01
05 54 Metal Floor Plates (05 50)		
05 54 00 00-0001 Steel Floor Plates (05 54)		
05 54 00 00-0002 SF 16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	22.46	1.37
05 54 00 00-0003 SF 14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	25.80	1.37
05 54 00 00-0004 SF 12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	32.53	1.37
05 54 00 00-0005 SF 1/8" Steel Raised Or Diamond Pattern Floor Plates.....	43.63	1.48
05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates.....	55.69	1.58
05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)		
05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	30.10 4.17	1.17
05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	34.54 4.78	1.37
05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	38.99 5.40	1.48
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)		
05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	39.12	1.58
05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	46.78	1.80
05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	60.63	2.12
05 55 Metal Stair Treads and Nosings (05 50)		
05 55 13 Metal Stair Treads (05 55)		
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13) Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	72.99 15.44	7.02
05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	80.37 17.29	7.02
05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	87.73 19.13	7.02
05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	95.14 20.98	7.02
05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	102.48 22.81	7.02
05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13) Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	101.62	7.02
05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	112.56	7.02
05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	123.52	7.02
05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	134.45	7.02
05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	145.41	7.02

05	05 Metals
	05 50 Metal Fabrications
	05 55 Metal Stair Treads and Nosings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 55 13 00-0013	Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014	LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	38.46	7.02
05 55 13 00-0015	LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	45.15	7.02
05 55 13 00-0016	LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	48.10	7.02

05 55 13 00-0017	Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018	LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	56.92 4.64 3.48	7.02
05 55 13 00-0019	LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	57.48 4.64 3.48	7.02
05 55 13 00-0020	LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	69.51 4.64 3.48	7.02
05 55 13 00-0021	LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	80.05 4.64 3.48	7.02
05 55 13 00-0022	LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	93.79 4.64 3.48	7.02

05 55 13 00-0023	Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024	Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads..... <i>For 3/8" Thick, Add</i>	102.48 22.81	7.02

05 55 13 00-0026	Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	145.41	7.02

05 55 13 00-0028	Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029	SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	95.00 4.64	7.02

05 55 13 00-0030	Open Cast Iron Stair Tread <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031	RSR 3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	789.39 67.77	42.30
05 55 13 00-0032	RSR 4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	882.89 75.64	48.63
05 55 13 00-0033	RSR 5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	971.23 83.13	57.10

05 55 16 Metal Stair Nosings (05 55)

05 55 16 00-0001	Abrasive Cast Aluminum Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	30.78 5.78	4.78
05 55 16 00-0003	LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	37.91 7.57	4.78
05 55 16 00-0004	LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	53.80 11.54	4.78

05 55 16 00-0005	Abrasive Cast Iron Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	35.99 7.09	4.78
05 55 16 00-0007	LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	44.76 9.28	4.78
05 55 16 00-0008	LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	62.11 13.62	4.78



	Metals	05
	Metal Fabrications	05 50
	Metal Stair Treads and Nosings	05 55

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 55 16 00-0009	Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small>		
	Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010	LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	25.95	4.78
05 55 16 00-0011	LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	29.39	4.78
05 55 16 00-0012	LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	32.01	4.78
05 55 16 00-0013	LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	40.17	4.78
05 55 16 00-0014	LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	26.88	4.78
05 55 16 00-0015	LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	29.81	4.78
05 55 16 00-0016	LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	32.71	4.78
05 55 16 00-0017	LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	30.95	4.78

05 56 Metal Castings (05 50)

05 56 00 00-0001	Castings <small>(05 56)</small>		
05 56 00 00-0002	LB Up To 150 LB, Miscellaneous Castings, Light Section	6.12	0.53
05 56 00 00-0003	LB >150 LB, Miscellaneous Castings, Heavy Section.....	10.70	0.42

05 58 Formed Metal Fabrications (05 50)**05 58 16 Formed Metal Enclosures** (05 58)

05 58 16 00-0001	Drip Pan <small>(05 58 16)</small>		
05 58 16 00-0002	SF Stainless Steel Drip Pan	114.13	6.88
05 58 16 00-0003	SF Galvanized Steel Drip Pan.....	112.74	6.88
05 58 16 00-0004	SF Aluminum Drip Pan	79.15	5.50
05 58 16 00-0005	SF Plastic Drip Pan	20.52	4.81

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001	Protective Guard Rails <small>(05 58 23)</small>		
	Note: Includes painted finish.		
05 58 23 00-0002	2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0001)</small>		
	Note: Steel King Armor Guard.		
05 58 23 00-0003	Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0002)</small>		
	Note: Excludes posts. Includes fasteners.		
05 58 23 00-0004	EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	210.41	22.97
05 58 23 00-0005	EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	247.33	22.97
05 58 23 00-0006	EA 3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	282.16	22.97
05 58 23 00-0007	EA 4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	319.08	22.97
05 58 23 00-0008	EA 5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	354.10	22.97
05 58 23 00-0009	EA 6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	399.50	22.97
05 58 23 00-0010	EA 7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	430.43	22.97
05 58 23 00-0011	EA 8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	478.33	22.97
05 58 23 00-0012	EA 9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	509.76	22.97
05 58 23 00-0013	EA 10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	532.21	22.97
05 58 23 00-0014	Posts For 2-Rib Guard Rails <small>(05 58 23 00-0002)</small>		
	Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0015	EA 12" Height, Single Rail Post For 2-Rib Guard Rails	422.98	47.85
05 58 23 00-0016	EA 42" Height, Triple Rail Post For 2-Rib Guard Rails	551.20	47.85
05 58 23 00-0017	3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0001)</small>		
	Note: Steel King Steel Guard.		
05 58 23 00-0018	Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0017)</small>		
	Note: Excludes posts. Includes fasteners.		
05 58 23 00-0019	EA 1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	232.66	22.97
05 58 23 00-0020	EA 2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	257.21	22.97
05 58 23 00-0021	EA 3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	287.84	22.97
05 58 23 00-0022	EA 4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	316.48	22.97
05 58 23 00-0023	EA 5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	349.61	22.97
05 58 23 00-0024	EA 6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	365.57	22.97
05 58 23 00-0025	EA 7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	403.99	22.97
05 58 23 00-0026	EA 8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	436.42	22.97
05 58 23 00-0027	EA 9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	470.84	22.97
05 58 23 00-0028	EA 10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	505.77	22.97
05 58 23 00-0029	Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0017)</small>		
	Note: Excludes posts. Includes fasteners and lift-out mounting plate.		
05 58 23 00-0030	EA 1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	343.12	22.97
05 58 23 00-0031	EA 2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	370.06	22.97
05 58 23 00-0032	EA 3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	398.00	22.97

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		430.43	22.97
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		462.86	22.97
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		489.30	22.97
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		519.74	22.97
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		554.16	22.97
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		591.08	22.97
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....		623.51	22.97
05 58 23 00-0040		Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small>			
		Note: Includes drilling, surface mounting plate and anchors.			
05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails		371.90	47.85
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails.....		475.87	47.85
05 58 23 00-0043		All-Welded, Protective Guards <small>(05 58 23)</small>			
		Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.			
05 58 23 00-0044		All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>			
05 58 23 00-0045	EA	36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		485.33	63.81
05 58 23 00-0046	EA	48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		510.27	63.81
05 58 23 00-0047	EA	36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		524.74	63.81
05 58 23 00-0048	EA	48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		546.19	63.81
05 58 23 00-0049	EA	36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		541.20	63.81
05 58 23 00-0050	EA	48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		567.65	63.81
05 58 23 00-0051	EA	36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		575.13	63.81
05 58 23 00-0052	EA	48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		583.61	63.81
05 58 23 00-0053	EA	48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....		624.02	63.81
05 58 23 00-0054		Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>			
05 58 23 00-0055	EA	24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....		639.99	63.81
05 58 23 00-0056	EA	30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....		669.92	63.81
05 58 23 00-0057	EA	24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....		682.40	63.81
05 58 23 00-0058	EA	30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....		743.76	63.81
05 58 23 00-0059		Warehouse Safety Bollards <small>(05 58 23)</small>			
		Note: Includes painted finish, drilling, surface mounting plate and anchors.			
05 58 23 00-0060	EA	24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard		315.89	47.85
05 58 23 00-0061	EA	36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard		365.18	47.85
05 58 23 00-0062	EA	42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard		417.37	47.85
05 58 23 00-0063	EA	36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard		431.64	47.85
05 58 23 00-0064	EA	42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard		464.57	47.85
05 59 Metal Specialties <small>(05 50)</small>					
05 59 65 Metal Chain <small>(05 59)</small>					
05 59 65 00-0001		Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small>			
		Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.			
05 59 65 00-0002	LF	3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		7.00	1.02
		<i>For Plastic Dipped, Add</i>		0.74	
05 59 65 00-0003	LF	1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		8.52	1.36
		<i>For Plastic Dipped, Add</i>		0.87	
05 59 65 00-0004	LF	3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		13.26	2.72
		<i>For Plastic Dipped, Add</i>		1.17	
05 59 65 00-0005	LF	1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		21.19	4.59
		<i>For Plastic Dipped, Add</i>		1.80	
05 59 65 00-0006	LF	5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		35.77	7.75
		<i>For Plastic Dipped, Add</i>		3.04	
05 59 65 00-0007	LF	3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		50.20	10.87
		<i>For Plastic Dipped, Add</i>		4.27	
05 59 65 00-0008	LF	7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		68.89	13.59
		<i>For Plastic Dipped, Add</i>		6.26	
05 59 65 00-0009	LF	1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		100.20	18.12
		<i>For Plastic Dipped, Add</i>		9.59	
05 59 65 00-0010	LF	1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....		163.81	27.19
		<i>For Plastic Dipped, Add</i>		16.42	
05 59 65 00-0011		316L Stainless Steel Chain, Cut Length <small>(05 59 65)</small>			
05 59 65 00-0012	CLF	1/8" Diameter 316L Stainless Steel Chain, Cut Length.....		2,680.47	90.58
05 59 65 00-0013	CLF	3/16" Diameter 316L Stainless Steel Chain, Cut Length.....		3,298.80	108.75
05 59 65 00-0014	CLF	9/32" Diameter 316L Stainless Steel Chain, Cut Length.....		4,135.18	135.94
05 59 65 00-0015	CLF	5/16" Diameter 316L Stainless Steel Chain, Cut Length.....		5,586.68	181.29
05 59 65 00-0016	CLF	3/8" Diameter 316L Stainless Steel Chain, Cut Length.....		6,348.39	217.87
05 59 65 00-0017	CLF	1/2" Diameter 316L Stainless Steel Chain, Cut Length.....		9,576.13	453.16



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing ^(07 10)

07 11 13 Bituminous Dampproofing ^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray ^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	195.72
07 11 13 00-0003	CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing	301.55

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On ^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	336.20
07 11 13 00-0006	CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing	521.11

07 11 13 00-0007 Asphaltic Paint Dampproofing ^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	157.42
07 11 13 00-0009	CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing	291.01

07 11 19 Sheet Dampproofing ^(07 11)

07 11 19 00-0001 Neoprene ^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5 To 20 SF)	41.75
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07 13 Sheet Waterproofing ^(07 10)

07 13 13 Bituminous Sheet Waterproofing ^(07 13)

07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped ^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	356.90	127.17
	<i>For 30 LB Felt, Add</i>	76.93	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-38.15	
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	447.52	143.06
	<i>For 30 LB Felt, Add</i>	121.05	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-42.92	
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	538.15	158.95
	<i>For 30 LB Felt, Add</i>	165.18	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-47.69	
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	628.77	174.86
	<i>For 30 LB Felt, Add</i>	209.30	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-52.46	
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	719.40	190.75
	<i>For 30 LB Felt, Add</i>	253.43	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-57.23	

07 13 13 00-0007 Asphalt Coated Protective Board ^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	308.85	127.39
	<i>For Application To Horizontal Surfaces, Deduct</i>	-42.49	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	390.81	132.29
	<i>For Application To Horizontal Surfaces, Deduct</i>	-44.10	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	489.43	137.85
	<i>For Application To Horizontal Surfaces, Deduct</i>	-45.93	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	541.19	143.40
	<i>For Application To Horizontal Surfaces, Deduct</i>	-47.81	

07 13 53 Elastomeric Sheet Waterproofing ^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet ^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	8.13	1.33
	<i>For Floor Surfaces, Deduct</i>	-1.28	

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) ^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	531.09	185.80
	<i>For Application To Horizontal Surfaces, Deduct</i>	-55.73	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	604.73	185.80
	<i>For Application To Horizontal Surfaces, Deduct</i>	-55.73	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing.....	106.32	46.45
			<i>For Joint Taping, Add</i>	16.02	
			<i>For Each Additional Ply, Add</i>	79.08	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing.....	125.34	46.45
			<i>For Joint Taping, Add</i>	16.97	
			<i>For Each Additional Ply, Add</i>	92.39	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon.....	117.20	46.45
			<i>For Joint Taping, Add</i>	16.56	
			<i>For Each Additional Ply, Add</i>	86.69	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon.....	129.43	46.45
			<i>For Joint Taping, Add</i>	17.18	
			<i>For Each Additional Ply, Add</i>	95.26	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing.....	179.76	46.45
			<i>For Joint Taping, Add</i>	19.69	
			<i>For Each Additional Ply, Add</i>	130.49	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing.....	260.73	46.45
			<i>For Joint Taping, Add</i>	23.74	
			<i>For Each Additional Ply, Add</i>	187.17	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon.....	188.21	46.45
			<i>For Joint Taping, Add</i>	20.11	
			<i>For Each Additional Ply, Add</i>	136.40	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon.....	274.23	46.45
			<i>For Joint Taping, Add</i>	24.42	
			<i>For Each Additional Ply, Add</i>	196.62	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-6.98	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier.....	41.73	15.56
			<i>For Joint Taping, Add</i>	10.01	
			<i>For Each Additional Ply, Add</i>	32.65	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.16	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier.....	42.60	15.56
			<i>For Joint Taping, Add</i>	10.05	
			<i>For Each Additional Ply, Add</i>	33.26	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.16	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier.....	69.58	15.56
			<i>For Joint Taping, Add</i>	11.40	
			<i>For Each Additional Ply, Add</i>	52.15	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.16	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite.....	104.53	15.56
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			<i>For Each Additional Ply, Add</i>	77.00	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.74	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	48.44	17.22
			<i>For Joint Taping, Add</i>	10.34	
			<i>For Each Additional Ply, Add</i>	37.35	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.16	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	59.94	17.85
			<i>For Joint Taping, Add</i>	11.22	
			<i>For Each Additional Ply, Add</i>	45.53	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.36	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	75.19	18.50
			<i>For Joint Taping, Add</i>	12.26	
			<i>For Each Additional Ply, Add</i>	56.33	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.55	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	49.11	15.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001	Hot Applied Rubberized Asphalt Waterproofing Coating <small>(07 14 13)</small>		2.65
07 14 13 00-0002	SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface <i>Note: Includes primer.</i>		2.65
	<i>For Application To Horizontal Surfaces, Deduct</i>		-0.24
	<i>For Reinforcing Fabric, Add</i>		0.59
07 14 13 00-0003	SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface <i>Note: Includes primer.</i>		3.09
	<i>For Application To Horizontal Surfaces, Deduct</i>		-0.26
	<i>For Reinforcing Fabric, Add</i>		0.59

07 14 16 Cold Fluid-Applied Waterproofing (07 14)

07 14 16 00-0001	Fluid Applied Rubber Based Polyurethane <small>(07 14 16)</small>		
07 14 16 00-0002	SF 60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing <i>For Application To Horizontal Surfaces, Deduct</i>		4.47 -0.56
07 14 16 00-0003	SF 90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing <i>For Application To Horizontal Surfaces, Deduct</i>		5.03 -0.59
07 14 16 00-0004	SF 120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing <i>For Application To Horizontal Surfaces, Deduct</i>		5.63 -0.63
07 14 16 00-0005	One Part Solution Of Chlorosulfonated Polyethylene Polymer <small>(07 14 16)</small>		
07 14 16 00-0006	SF 15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer		3.13
07 14 16 00-0007	Copolymer Compound <small>(07 14 16)</small>		
07 14 16 00-0008	SF 32 Mil, Fluid Elastomeric Copolymer Compound For Slabs		4.98
07 14 16 00-0009	Fluid Applied Neoprene <small>(07 14 16)</small>		
07 14 16 00-0010	CSF 1/8" Fiberglass Reinforced, Fluid Applied Neoprene <i>For Application To Horizontal Surfaces, Deduct</i>		602.90 -67.68
07 14 16 00-0011	CSF 50 Mil, 4 Coats, Fluid Applied Neoprene <i>For Application To Horizontal Surfaces, Deduct</i>		1,120.96 -132.78
07 14 16 00-0012	CSF 90 Mil, 4 Coats, Fluid Applied Neoprene <i>For Application To Horizontal Surfaces, Deduct</i>		1,798.67 -199.06

07 16 Cementitious and Reactive Waterproofing (07 10)

07 16 13	Polymer Modified Cement Waterproofing <small>(07 16)</small>		
07 16 13 00-0001	SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats <i>Note: As manufactured by Thoro Consumer Products. Includes ThoroSeal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.</i>		4.81

07 16 16 Crystalline Waterproofing (07 16)

07 16 16 00-0001	SF Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate)		6.43
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07 16 19 Metal Oxide Waterproofing (07 16)

07 16 19 00-0001	Metallic Oxide Waterproofing <small>(07 16 19)</small> <i>Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.</i>		
07 16 19 00-0002	CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller) <i>For Application To Horizontal Surfaces, Deduct</i>		518.31 -65.21

07 19 Water Repellents (07 10)

07 19 13 Acrylic Sealer (07 19)

<i>Note: Per coat.</i>			
07 19 13 00-0001	SF Spray On Concrete, Acrylic Sealer		2.88
07 19 13 00-0002	SF Spray On Concrete Block/Brick, Acrylic Sealer		3.42
07 19 13 00-0003	SF Spray On Stone, Acrylic Sealer		3.76

07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001	Silane Concrete Sealer <small>(07 19 16)</small>		
07 19 16 00-0002	SF Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		0.76
07 19 16 00-0003	SF Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		1.13

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 19 Water Repellents**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 19 16 00-0004		Silane/Siloxane Concrete Sealer <small>(07 19 16)</small>		
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.32	
		Note: 40% silane, alcohol based.		
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.93	
		Note: 40% silane, alcohol based.		
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.51	
		Note: 200 SF/GAL		
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.74	

END OF SECTION 07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001

Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Media blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment and collection.

09 01 90 52-0002

Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation	0.58	
	For Up To 100, Add	0.42	
	For >100 To 250, Add	0.20	
	For >250 To 500, Add	0.08	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.09	
	For >30,000, Deduct	-0.12	
09 01 90 52-0004	SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.58	
	For Up To 100, Add	1.01	
	For >100 To 250, Add	0.27	
	For >250 To 500, Add	0.13	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.11	
09 01 90 52-0005	SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.91	
	For Up To 100, Add	1.57	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.20	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.13	
	For >30,000, Deduct	-0.17	
09 01 90 52-0006	SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	0.78	
	For Up To 100, Add	1.56	
	For >100 To 250, Add	0.39	
	For >250 To 500, Add	0.20	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.12	
	For >30,000, Deduct	-0.16	
09 01 90 52-0007	SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.84	
	For Up To 100, Add	1.46	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.19	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.12	
	For >30,000, Deduct	-0.16	
09 01 90 52-0008	SF 2,000 To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.55	
	For Up To 100, Add	0.89	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.12	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.10	
09 01 90 52-0009	SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.52	
	For Up To 100, Add	2.74	
	For >100 To 250, Add	0.71	
	For >250 To 500, Add	0.35	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 15,000, Deduct	-0.14	
	For >15,000 To 30,000, Deduct	-0.22	
	For >30,000, Deduct	-0.29	
09 01 90 52-0010	SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.50	
	For Up To 100, Add	4.70	
	For >100 To 250, Add	1.20	
	For >250 To 500, Add	0.60	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 15,000, Deduct	-0.24	
	For >15,000 To 30,000, Deduct	-0.37	
	For >30,000, Deduct	-0.49	

09 Finishes

09 01 Maintenance of Finishes

09 01 90 Maintenance of Painting and Coating



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 01 90 52-0011	SF Abrasive Glass Media Blasting, Concrete And Masonry Surfaces, Surface Preparation.....	3.87	
	Note: 3 lbs of sand or glass abrasive media material per SF		
	For 4.5 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	2.25	
	For 6 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	4.65	
	For 9 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	7.74	
	For Up To 100, Add	6.59	
	For >100 To 250, Add	1.74	
	For >250 To 500, Add	0.85	
	For >5,000 To 10,000, Deduct	-0.18	
	For >10,000 To 15,000, Deduct	-0.36	
	For >15,000 To 30,000, Deduct	-0.56	
	For >30,000, Deduct	-0.74	
09 01 90 52-0012	Metal Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0013	SF Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation.....	0.55	
	For Up To 100, Add	0.40	
	For >100 To 250, Add	0.19	
	For >250 To 500, Add	0.08	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.11	
09 01 90 52-0014	SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation.....	0.91	
	For Up To 100, Add	0.56	
	For >100 To 250, Add	0.26	
	For >250 To 500, Add	0.11	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.13	
	For >30,000, Deduct	-0.17	
09 01 90 52-0015	SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation.....	0.78	
	For Up To 100, Add	0.59	
	For >100 To 250, Add	0.27	
	For >250 To 500, Add	0.12	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.12	
	For >30,000, Deduct	-0.16	
09 01 90 52-0016	SF 2,000 To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation.....	0.52	
	For Up To 100, Add	0.31	
	For >100 To 250, Add	0.14	
	For >250 To 500, Add	0.06	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.10	
09 01 90 52-0017	SF Power Tool Cleaning, Metal Surfaces, Surface Preparation.....	1.45	
	For Up To 100, Add	1.09	
	For >100 To 250, Add	0.51	
	For >250 To 500, Add	0.22	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 15,000, Deduct	-0.15	
	For >15,000 To 30,000, Deduct	-0.22	
	For >30,000, Deduct	-0.29	
09 01 90 52-0018	SF Steam Cleaning, Metal Surfaces, Surface Preparation.....	0.53	
	For Up To 100, Add	0.29	
	For >100 To 250, Add	0.13	
	For >250 To 500, Add	0.06	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.10	
09 01 90 52-0019	SF Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation.....	1.15	
	For Up To 100, Add	0.71	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
	For >5,000 To 10,000, Deduct	-0.05	
	For >10,000 To 15,000, Deduct	-0.11	
	For >15,000 To 30,000, Deduct	-0.17	
	For >30,000, Deduct	-0.22	
09 01 90 52-0020	SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation.....	1.57	
	For Up To 100, Add	0.95	
	For >100 To 250, Add	0.44	
	For >250 To 500, Add	0.19	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 15,000, Deduct	-0.14	
	For >15,000 To 30,000, Deduct	-0.23	
	For >30,000, Deduct	-0.30	
09 01 90 52-0021	SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation.....	2.30	
	For Up To 100, Add	1.42	
	For >100 To 250, Add	0.66	
	For >250 To 500, Add	0.28	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 15,000, Deduct	-0.21	
	For >15,000 To 30,000, Deduct	-0.33	
	For >30,000, Deduct	-0.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	3.84	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.36	
For >15,000 To 30,000, Deduct	-0.56	
For >30,000, Deduct	-0.73	
09 01 90 52-0023 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.92	
For Up To 100, Add	1.76	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
09 01 90 52-0024 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.61	
For Up To 100, Add	2.17	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.43	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 15,000, Deduct	-0.33	
For >15,000 To 30,000, Deduct	-0.52	
For >30,000, Deduct	-0.69	
09 01 90 52-0025 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.70	
For Up To 100, Add	2.83	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 15,000, Deduct	-0.43	
For >15,000 To 30,000, Deduct	-0.68	
For >30,000, Deduct	-0.89	
09 01 90 52-0026 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	5.87	
For Up To 100, Add	3.53	
For >100 To 250, Add	1.65	
For >250 To 500, Add	0.71	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 15,000, Deduct	-0.54	
For >15,000 To 30,000, Deduct	-0.85	
For >30,000, Deduct	-1.12	
09 01 90 52-0027 Tile Surfaces, Surface Preparation (09 01 90 52-0001)	0.50	
09 01 90 52-0028 SF Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.50	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.10	
09 01 90 52-0029 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation	50.34	
For Up To 100, Add	37.49	
For >100 To 250, Add	17.49	
For >250 To 500, Add	7.50	
For >5,000 To 10,000, Deduct	-2.51	
For >10,000 To 15,000, Deduct	-5.02	
For >15,000 To 30,000, Deduct	-7.54	
For >30,000, Deduct	-10.05	
09 01 90 52-0030 SF 2,000 To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.38	
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.07	
09 01 90 52-0031 Wood Surfaces, Surface Preparation (09 01 90 52-0001)	0.53	
09 01 90 52-0032 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.53	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.11	
09 01 90 52-0033 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.75	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	

09 Finishes
09 01 Maintenance of Finishes
09 01 90 Maintenance of Painting and Coating



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034	SF		Hand Scrape Wood Surfaces, Surface Preparation.....	0.87	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.13	
			For >30,000, Deduct	-0.17	
09 01 90 52-0035	SF		Steam Clean Wood Surfaces, Surface Preparation.....	0.82	
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0036	SF		2,000 To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation.....	0.57	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0037	SF		Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation.....	1.05	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.21	
09 01 90 52-0038	SF		Sanding Wood Trim Surfaces, Surface Preparation.....	1.41	
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 15,000, Deduct	-0.14	
			For >15,000 To 30,000, Deduct	-0.21	
			For >30,000, Deduct	-0.28	
09 01 90 52-0039	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening.....	1.68	
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 15,000, Deduct	-0.16	
			For >15,000 To 30,000, Deduct	-0.25	
			For >30,000, Deduct	-0.33	
09 01 90 52-0040	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.93	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.18	
09 01 90 52-0041	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	1.08	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.21	
09 01 90 52-0042			Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0043	SF		Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.50	
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.10	
09 01 90 52-0044	SF		Hand Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.80	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0045 SF 2,000 To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.47	
<i>For Up To 100, Add</i>	0.26	
<i>For >100 To 250, Add</i>	0.12	
<i>For >250 To 500, Add</i>	0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.04	
<i>For >15,000 To 30,000, Deduct</i>	-0.07	
<i>For >30,000, Deduct</i>	-0.09	
09 01 90 52-0046 SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation	0.87	
<i>For Up To 100, Add</i>	0.50	
<i>For >100 To 250, Add</i>	0.23	
<i>For >250 To 500, Add</i>	0.10	
<i>For >5,000 To 10,000, Deduct</i>	-0.04	
<i>For >10,000 To 15,000, Deduct</i>	-0.08	
<i>For >15,000 To 30,000, Deduct</i>	-0.12	
<i>For >30,000, Deduct</i>	-0.16	
09 01 90 52-0047 Plaster/Stucco Surfaces, Surface Preparation <small>(09 01 90 52-0001)</small>		
Note: Based on total project quantity.		
09 01 90 52-0048 SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation	0.58	
<i>For Up To 100, Add</i>	0.42	
<i>For >100 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.06	
<i>For >15,000 To 30,000, Deduct</i>	-0.09	
<i>For >30,000, Deduct</i>	-0.12	
09 01 90 52-0049 SF 2,000 To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation.....	0.62	
<i>For Up To 100, Add</i>	0.36	
<i>For >100 To 250, Add</i>	0.17	
<i>For >250 To 500, Add</i>	0.07	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.06	
<i>For >15,000 To 30,000, Deduct</i>	-0.09	
<i>For >30,000, Deduct</i>	-0.12	
09 01 90 52-0050 Prep Work <small>(09 01 90 52-0001)</small>		
09 01 90 52-0051 SF Citrus Strip, Single Applications.....	1.37	
Note: For removal of up to 40 mils each application (average 5 layers at 8 mils per layer) dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple applications may be necessary, refer to manufacturer recommendations		
09 01 90 91 Paint Restoration <small>(09 01 90)</small>		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood <small>(09 01 90 91)</small>		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood.....	9.17	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	9.78	
09 90 Painting and Coating <small>(09)</small>		
Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.		
09 91 Painting <small>(09 90)</small>		
09 91 13 Exterior Painting <small>(09 91)</small>		
Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.		
09 91 13 00-0001 Paint Exterior Walls/Siding <small>(09 91 13)</small>		
09 91 13 00-0002 Paint Exterior Brick Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0003 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls.....	0.29	
<i>For Oil Based Paint, Add</i>	0.02	
<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
Note: Applied only to work area above 15' to 20'.		
<i>For Work >20' To 30' Above Floor, Add</i>	0.06	
Note: Applied only to work area above 20'.		
<i>For Work >30' To 40' Above Floor, Add</i>	0.09	
Note: Applied only to work area above 30' to 40'.		
<i>For Work >40' Above Floor, Add</i>	0.13	
Note: Applied only to work area above 40'.		
<i>For Up To 100, Add</i>	0.18	
<i>For >100 To 250, Add</i>	0.09	
<i>For >250 To 500, Add</i>	0.04	
<i>For >2,500 To 5,000, Deduct</i>	-0.01	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 20,000, Deduct</i>	-0.04	
<i>For >20,000, Deduct</i>	-0.06	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0004	SF 1 Coat Filler, Brush Work, Paint Exterior Brick Walls.....	1.27	
	For Oil Based Paint, Add	0.08	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.24	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.38	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.52	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.36	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.19	
	For >20,000, Deduct	-0.25	
09 91 13 00-0005	SF 1 Coat Paint, Brush Work, Paint Exterior Brick Walls.....	1.76	
	For Oil Based Paint, Add	0.11	
	For Work >15' To 20' Above Floor, Add	0.21	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.35	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.55	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.76	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.09	
	For >100 To 250, Add	0.52	
	For >250 To 500, Add	0.23	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.18	
	For >10,000 To 20,000, Deduct	-0.26	
	For >20,000, Deduct	-0.35	
09 91 13 00-0006	SF 2 Coats Paint, Brush Work, Paint Exterior Brick Walls.....	2.63	
	For Oil Based Paint, Add	0.17	
	For Work >15' To 20' Above Floor, Add	0.28	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.47	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.74	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.02	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.51	
	For >100 To 250, Add	0.73	
	For >250 To 500, Add	0.32	
	For >2,500 To 5,000, Deduct	-0.13	
	For >5,000 To 10,000, Deduct	-0.26	
	For >10,000 To 20,000, Deduct	-0.39	
	For >20,000, Deduct	-0.53	
09 91 13 00-0007	SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls.....	0.89	
	For Oil Based Paint, Add	0.06	
	For Work >15' To 20' Above Floor, Add	0.08	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.14	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.22	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.31	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.47	
	For >100 To 250, Add	0.23	
	For >250 To 500, Add	0.10	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.18	
09 91 13 00-0008	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.44	
	For Oil Based Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.24	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.38	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.52	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.79	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.29	



Finishes	09	
Painting and Coating	09 90	09
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls	2.18	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.72	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.11	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0010 SF 1 Coat Filler, Sprayed, Paint Exterior Brick Walls	0.83	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.25	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
09 91 13 00-0011 SF 1 Coat Paint, Sprayed, Paint Exterior Brick Walls	0.90	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.14	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.19	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0012 SF 2 Coats Paint, Sprayed, Paint Exterior Brick Walls	1.83	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.37	

09 91 13 00-0013 Paint Exterior Concrete Walls (09 91 13 00-0001)

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0014	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls	0.19	
	For Oil Based Paint, Add	0.01	
	For Epoxy Paint, Add	0.02	
	For Work >15' To 20' Above Floor, Add	0.02	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.04	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.06	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.08	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.12	
	For >100 To 250, Add	0.06	
	For >250 To 500, Add	0.02	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 13 00-0015	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.06	
	For Oil Based Paint, Add	0.07	
	For Epoxy Paint, Add	0.13	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.20	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.32	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.43	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.63	
	For >100 To 250, Add	0.30	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.16	
	For >20,000, Deduct	-0.21	
09 91 13 00-0016	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.14	
	For Oil Based Paint, Add	0.07	
	For Epoxy Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.23	
09 91 13 00-0017	SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Walls	2.15	
	For Oil Based Paint, Add	0.13	
	For Epoxy Paint, Add	0.24	
	For Work >15' To 20' Above Floor, Add	0.26	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.43	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.68	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.94	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.35	
	For >100 To 250, Add	0.64	
	For >250 To 500, Add	0.28	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.22	
	For >10,000 To 20,000, Deduct	-0.32	
	For >20,000, Deduct	-0.43	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.88	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0019 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls	0.96	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0020 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.66	
For Oil Based Paint, Add	0.11	
For Epoxy Paint, Add	0.22	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.49	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.67	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.98	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0021 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Walls	0.75	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.36	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0022	SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Walls	0.66	
	For Oil Based Paint, Add	0.05	
	For Epoxy Paint, Add	0.11	
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.10	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.16	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.21	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.33	
	For >100 To 250, Add	0.16	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 20,000, Deduct	-0.10	
	For >20,000, Deduct	-0.13	
09 91 13 00-0023	SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Walls	1.20	
	For Oil Based Paint, Add	0.09	
	For Epoxy Paint, Add	0.23	
	For Work >15' To 20' Above Floor, Add	0.10	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.16	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.26	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.36	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.57	
	For >100 To 250, Add	0.28	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.24	
09 91 13 00-0024	Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025	Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		
09 91 13 00-0026	LF 1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.27	
	For Work >15' To 20' Above Floor, Add	0.03	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.05	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.08	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.10	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.15	
	For >100 To 250, Add	0.07	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 20,000, Deduct	-0.04	
	For >20,000, Deduct	-0.05	
09 91 13 00-0027	SF 1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.53	
	For Work >15' To 20' Above Floor, Add	0.16	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.26	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.42	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.57	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.85	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.23	
	For >20,000, Deduct	-0.31	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0028 SF 1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	1.73	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0029 SF 2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	3.06	
For Work >15' To 20' Above Floor, Add	0.31	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.52	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.83	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.14	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.71	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	
09 91 13 00-0030 SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.28	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0031 SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.41	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0032 SF 2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.53	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.39	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.62	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.85	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.31	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0033	SF 1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	1.04	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.07	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.11	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.18	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.42	
	<i>For >100 To 250, Add</i>	0.21	
	<i>For >250 To 500, Add</i>	0.10	
	<i>For >2,500 To 5,000, Deduct</i>	-0.05	
	<i>For >5,000 To 10,000, Deduct</i>	-0.10	
	<i>For >10,000 To 20,000, Deduct</i>	-0.16	
	<i>For >20,000, Deduct</i>	-0.21	
09 91 13 00-0034	SF 1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	1.13	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.21	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.29	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.49	
	<i>For >100 To 250, Add</i>	0.25	
	<i>For >250 To 500, Add</i>	0.11	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.11	
	<i>For >10,000 To 20,000, Deduct</i>	-0.17	
	<i>For >20,000, Deduct</i>	-0.23	
09 91 13 00-0035	SF 2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	2.22	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.38	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.53	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.91	
	<i>For >100 To 250, Add</i>	0.46	
	<i>For >250 To 500, Add</i>	0.21	
	<i>For >2,500 To 5,000, Deduct</i>	-0.11	
	<i>For >5,000 To 10,000, Deduct</i>	-0.22	
	<i>For >10,000 To 20,000, Deduct</i>	-0.33	
	<i>For >20,000, Deduct</i>	-0.44	
09 91 13 00-0036	Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024)		
09 91 13 00-0037	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.26	
	<i>For Oil Based Paint, Add</i>	0.02	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.05	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.10	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.15	
	<i>For >100 To 250, Add</i>	0.07	
	<i>For >250 To 500, Add</i>	0.03	
	<i>For >2,500 To 5,000, Deduct</i>	-0.01	
	<i>For >5,000 To 10,000, Deduct</i>	-0.03	
	<i>For >10,000 To 20,000, Deduct</i>	-0.04	
	<i>For >20,000, Deduct</i>	-0.05	
09 91 13 00-0038	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls	1.37	
	<i>For Oil Based Paint, Add</i>	0.09	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.57	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.83	
	<i>For >100 To 250, Add</i>	0.40	
	<i>For >250 To 500, Add</i>	0.17	
	<i>For >2,500 To 5,000, Deduct</i>	-0.07	
	<i>For >5,000 To 10,000, Deduct</i>	-0.14	
	<i>For >10,000 To 20,000, Deduct</i>	-0.21	
	<i>For >20,000, Deduct</i>	-0.27	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0039 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.64	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0040 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Block Walls.....	3.01	
For Oil Based Paint, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.73	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.30	
For >10,000 To 20,000, Deduct	-0.45	
For >20,000, Deduct	-0.60	
09 91 13 00-0041 SF 1 Coat Texture Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.81	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.53	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.73	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0042 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.10	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0043 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.41	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0044	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.47	
	For Oil Based Paint, Add	0.17	
	For Work >15' To 20' Above Floor, Add	0.24	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.40	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.64	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.87	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.32	
	For >100 To 250, Add	0.64	
	For >250 To 500, Add	0.28	
	For >2,500 To 5,000, Deduct	-0.12	
	For >5,000 To 10,000, Deduct	-0.25	
	For >10,000 To 20,000, Deduct	-0.37	
	For >20,000, Deduct	-0.49	
09 91 13 00-0045	SF 1 Coat Texture Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.58	
	For Oil Based Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.16	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.27	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.44	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.60	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.89	
	For >100 To 250, Add	0.43	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.16	
	For >10,000 To 20,000, Deduct	-0.24	
	For >20,000, Deduct	-0.32	
09 91 13 00-0046	SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls.....	1.03	
	For Oil Based Paint, Add	0.07	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.32	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.51	
	For >100 To 250, Add	0.25	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.21	
09 91 13 00-0047	SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.12	
	For Oil Based Paint, Add	0.08	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.14	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.23	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.31	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.51	
	For >100 To 250, Add	0.25	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.22	
09 91 13 00-0048	SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.65	
	For Oil Based Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.15	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.25	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.40	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.54	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.84	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.17	
	For >10,000 To 20,000, Deduct	-0.25	
	For >20,000, Deduct	-0.33	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0049 SF 1 Coat Texture Paint, Sprayed, Paint Exterior Concrete Block Walls	1.41	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
 09 91 13 00-0050 Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0051 Paint Exterior Galvanized Walls (09 91 13 00-0050)		
Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0052 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.39	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
 09 91 13 00-0053 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	1.52	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
 09 91 13 00-0054 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	2.78	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.53	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.33	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
 09 91 13 00-0055 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.04	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0056	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	1.19	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.20	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.32	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.43	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.65	
	For >100 To 250, Add	0.32	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.24	
09 91 13 00-0057	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	2.26	
	For Work >15' To 20' Above Floor, Add	0.22	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.37	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.59	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.81	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.22	
	For >100 To 250, Add	0.59	
	For >250 To 500, Add	0.26	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.34	
	For >20,000, Deduct	-0.45	
09 91 13 00-0058	SF 1 Coat Primer, Sprayed, Paint Exterior Galvanized Walls	0.90	
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.09	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.15	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.20	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.36	
	For >100 To 250, Add	0.18	
	For >250 To 500, Add	0.08	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.18	
09 91 13 00-0059	SF 1 Coat Paint, Sprayed, Paint Exterior Galvanized Walls.....	1.12	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.32	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.52	
	For >100 To 250, Add	0.26	
	For >250 To 500, Add	0.12	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.22	
09 91 13 00-0060	SF 2 Coats Paint, Sprayed, Paint Exterior Galvanized Walls.....	1.94	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.82	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.29	
	For >20,000, Deduct	-0.39	
09 91 13 00-0061	Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0050)		
	Note: Alkyd enamel paint.		



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0062 SF 1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.39	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0063 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.52	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0064 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	2.77	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.53	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.55	
09 91 13 00-0065 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.19	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0066 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.32	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0067	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	2.53	
	For Work >15' To 20' Above Floor, Add	0.22	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.37	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.59	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.81	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.26	
	For >100 To 250, Add	0.62	
	For >250 To 500, Add	0.27	
	For >2,500 To 5,000, Deduct	-0.13	
	For >5,000 To 10,000, Deduct	-0.25	
	For >10,000 To 20,000, Deduct	-0.38	
	For >20,000, Deduct	-0.51	
09 91 13 00-0068	SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	0.97	
	For Work >15' To 20' Above Floor, Add	0.07	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.11	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.18	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.24	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.41	
	For >100 To 250, Add	0.21	
	For >250 To 500, Add	0.09	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.19	
09 91 13 00-0069	SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.12	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.32	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.52	
	For >100 To 250, Add	0.26	
	For >250 To 500, Add	0.12	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.22	
09 91 13 00-0070	SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.94	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.82	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.29	
	For >20,000, Deduct	-0.39	
09 91 13 00-0071	Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0050)		
09 91 13 00-0072	LF 1 Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	15.80	
	For Work >15' To 20' Above Floor, Add	1.97	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	3.29	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	5.26	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	7.24	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	10.27	
	For >100 To 250, Add	4.87	
	For >250 To 500, Add	2.11	
	For >2,500 To 5,000, Deduct	-0.79	
	For >5,000 To 10,000, Deduct	-1.58	
	For >10,000 To 20,000, Deduct	-2.37	
	For >20,000, Deduct	-3.16	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0073 LF 1 Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack	17.60	
For Work >15' To 20' Above Floor, Add	2.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	3.66	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	5.85	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	8.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	11.42	
For >100 To 250, Add	5.42	
For >250 To 500, Add	2.34	
For >2,500 To 5,000, Deduct	-0.88	
For >5,000 To 10,000, Deduct	-1.76	
For >10,000 To 20,000, Deduct	-2.64	
For >20,000, Deduct	-3.52	
09 91 13 00-0074 LF 2 Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack	32.77	
For Work >15' To 20' Above Floor, Add	4.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	6.87	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	11.00	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	15.12	
Note: Applied only to work area above 40'.		
For Up To 100, Add	21.41	
For >100 To 250, Add	10.15	
For >250 To 500, Add	4.39	
For >2,500 To 5,000, Deduct	-1.64	
For >5,000 To 10,000, Deduct	-3.28	
For >10,000 To 20,000, Deduct	-4.92	
For >20,000, Deduct	-6.55	
09 91 13 00-0075 Paint Exterior Corrugated Metal Walls (09 91 13 00-0050)	1.10	
09 91 13 00-0076 SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls	1.10	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.27	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0077 SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls	1.39	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0078 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls	2.39	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.07	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

09 91 13 00-0079		Paint Exterior Stucco Walls <small>(09 91 13 00-0001)</small>	
09 91 13 00-0080	LF	1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces.....	0.32
		<i>For Oil Based Paint, Add</i>	0.02
		<i>For Work >15' To 20' Above Floor, Add</i>	0.04
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.07
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.10
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.14
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	0.20
		<i>For >100 To 250, Add</i>	0.10
		<i>For >250 To 500, Add</i>	0.04
		<i>For >2,500 To 5,000, Deduct</i>	-0.02
		<i>For >5,000 To 10,000, Deduct</i>	-0.03
		<i>For >10,000 To 20,000, Deduct</i>	-0.05
		<i>For >20,000, Deduct</i>	-0.06
09 91 13 00-0081	SF	1 Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.80
		<i>For Oil Based Paint, Add</i>	0.11
		<i>For Work >15' To 20' Above Floor, Add</i>	0.22
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.37
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.59
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.81
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	1.15
		<i>For >100 To 250, Add</i>	0.55
		<i>For >250 To 500, Add</i>	0.24
		<i>For >2,500 To 5,000, Deduct</i>	-0.09
		<i>For >5,000 To 10,000, Deduct</i>	-0.18
		<i>For >10,000 To 20,000, Deduct</i>	-0.27
		<i>For >20,000, Deduct</i>	-0.36
09 91 13 00-0082	SF	1 Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.98
		<i>For Oil Based Paint, Add</i>	0.12
		<i>For Work >15' To 20' Above Floor, Add</i>	0.24
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.40
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.64
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.88
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	1.26
		<i>For >100 To 250, Add</i>	0.60
		<i>For >250 To 500, Add</i>	0.26
		<i>For >2,500 To 5,000, Deduct</i>	-0.10
		<i>For >5,000 To 10,000, Deduct</i>	-0.20
		<i>For >10,000 To 20,000, Deduct</i>	-0.30
		<i>For >20,000, Deduct</i>	-0.40
09 91 13 00-0083	SF	2 Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	3.69
		<i>For Oil Based Paint, Add</i>	0.22
		<i>For Work >15' To 20' Above Floor, Add</i>	0.44
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.73
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	1.17
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	1.61
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	2.31
		<i>For >100 To 250, Add</i>	1.10
		<i>For >250 To 500, Add</i>	0.48
		<i>For >2,500 To 5,000, Deduct</i>	-0.18
		<i>For >5,000 To 10,000, Deduct</i>	-0.37
		<i>For >10,000 To 20,000, Deduct</i>	-0.55
		<i>For >20,000, Deduct</i>	-0.74
09 91 13 00-0084	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.39
		<i>For Oil Based Paint, Add</i>	0.09
		<i>For Work >15' To 20' Above Floor, Add</i>	0.16
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.27
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.42
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.58
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	0.84
		<i>For >100 To 250, Add</i>	0.40
		<i>For >250 To 500, Add</i>	0.18
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.14
		<i>For >10,000 To 20,000, Deduct</i>	-0.21
		<i>For >20,000, Deduct</i>	-0.28



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0085 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.57	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.31	
09 91 13 00-0086 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	2.91	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.54	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.86	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.18	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.72	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.44	
For >20,000, Deduct	-0.58	
09 91 13 00-0087 SF 1 Coat Primer, Sprayed, Paint Exterior Stucco Walls.....	1.00	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0088 SF 1 Coat Paint, Sprayed, Paint Exterior Stucco Walls.....	1.23	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0089 SF 2 Coats Paint, Sprayed, Paint Exterior Stucco Walls.....	2.36	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.59	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.81	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.24	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 13 00-0090	Paint Exterior Wood Siding <small>(09 91 13 00-0001)</small>		
09 91 13 00-0091	Paint Exterior Smooth Wood Siding <small>(09 91 13 00-0090)</small>		
	Note: Includes tongue and groove, beveled, drop or board and batten siding.		
09 91 13 00-0092	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....		0.26
	For Oil Based Paint, Add		0.02
	For Work >15' To 20' Above Floor, Add		0.03
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add		0.05
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add		0.08
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add		0.12
	Note: Applied only to work area above 40'.		
	For Up To 100, Add		0.17
	For >100 To 250, Add		0.08
	For >250 To 500, Add		0.03
	For >2,500 To 5,000, Deduct		-0.01
	For >5,000 To 10,000, Deduct		-0.03
	For >10,000 To 20,000, Deduct		-0.04
	For >20,000, Deduct		-0.05
09 91 13 00-0093	SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding.....		1.54
	For Oil Based Paint, Add		0.10
	For Work >15' To 20' Above Floor, Add		0.17
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add		0.29
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add		0.46
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add		0.64
	Note: Applied only to work area above 40'.		
	For Up To 100, Add		0.93
	For >100 To 250, Add		0.44
	For >250 To 500, Add		0.19
	For >2,500 To 5,000, Deduct		-0.08
	For >5,000 To 10,000, Deduct		-0.15
	For >10,000 To 20,000, Deduct		-0.23
	For >20,000, Deduct		-0.31
09 91 13 00-0094	SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding.....		1.60
	For Oil Based Paint, Add		0.10
	For Work >15' To 20' Above Floor, Add		0.19
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add		0.32
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add		0.51
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add		0.70
	Note: Applied only to work area above 40'.		
	For Up To 100, Add		1.00
	For >100 To 250, Add		0.48
	For >250 To 500, Add		0.21
	For >2,500 To 5,000, Deduct		-0.08
	For >5,000 To 10,000, Deduct		-0.16
	For >10,000 To 20,000, Deduct		-0.24
	For >20,000, Deduct		-0.32
09 91 13 00-0095	SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....		2.89
	For Oil Based Paint, Add		0.18
	For Work >15' To 20' Above Floor, Add		0.33
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add		0.56
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add		0.89
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add		1.23
	Note: Applied only to work area above 40'.		
	For Up To 100, Add		1.77
	For >100 To 250, Add		0.85
	For >250 To 500, Add		0.37
	For >2,500 To 5,000, Deduct		-0.14
	For >5,000 To 10,000, Deduct		-0.29
	For >10,000 To 20,000, Deduct		-0.43
	For >20,000, Deduct		-0.58



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0096 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.24	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.44	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0097 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.34	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0098 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	2.53	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.44	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.70	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.97	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.44	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 13 00-0099 SF 1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.97	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0100 SF 1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.14	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0101	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.88	
			<i>For Oil Based Paint, Add</i>	0.14	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.92	
			<i>For >100 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.38	
09 91 13 00-0102			Paint Exterior Rough Wood Siding <small>(09 91 13 00-0090)</small>		
			<i>Note: Includes shingles, shakes or rough sawn siding.</i>		
09 91 13 00-0103	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	2.04	
			<i>For Oil Based Paint, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.88	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.27	
			<i>For >100 To 250, Add</i>	0.60	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.41	
09 91 13 00-0104	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	2.01	
			<i>For Oil Based Paint, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.67	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.92	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.31	
			<i>For >100 To 250, Add</i>	0.62	
			<i>For >250 To 500, Add</i>	0.27	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.40	
09 91 13 00-0105	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	3.71	
			<i>For Oil Based Paint, Add</i>	0.22	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.76	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	1.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	1.68	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	2.39	
			<i>For >100 To 250, Add</i>	1.13	
			<i>For >250 To 500, Add</i>	0.49	
			<i>For >2,500 To 5,000, Deduct</i>	-0.19	
			<i>For >5,000 To 10,000, Deduct</i>	-0.37	
			<i>For >10,000 To 20,000, Deduct</i>	-0.56	
			<i>For >20,000, Deduct</i>	-0.74	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0106 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.90	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	
09 91 13 00-0107 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	2.03	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.53	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.73	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.10	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.41	
09 91 13 00-0108 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	3.80	
For Oil Based Paint, Add	0.26	
For Work >15' To 20' Above Floor, Add	0.36	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.60	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.95	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.00	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.43	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000 To 20,000, Deduct	-0.57	
For >20,000, Deduct	-0.76	
09 91 13 00-0109 SF 1 Coat Primer, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.34	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0110 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.48	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0111	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	2.81	
			<i>For Oil Based Paint, Add</i>	0.20	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.89	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.39	
			<i>For >100 To 250, Add</i>	0.68	
			<i>For >250 To 500, Add</i>	0.30	
			<i>For >2,500 To 5,000, Deduct</i>	-0.14	
			<i>For >5,000 To 10,000, Deduct</i>	-0.28	
			<i>For >10,000 To 20,000, Deduct</i>	-0.42	
			<i>For >20,000, Deduct</i>	-0.56	
09 91 13 00-0112			Paint Exterior Vinyl Siding <small>(09 91 13 00-0001)</small>		
09 91 13 00-0113	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding	0.21	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.02	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.04	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.12	
			<i>For >100 To 250, Add</i>	0.06	
			<i>For >250 To 500, Add</i>	0.03	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.04	
09 91 13 00-0114	SF		1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding	1.17	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.23	
09 91 13 00-0115	SF		1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding	1.29	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.74	
			<i>For >100 To 250, Add</i>	0.36	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.26	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0116 SF 2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding	2.41	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.64	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.87	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.32	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 13 00-0117 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	1.10	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0118 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding.....	1.10	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0119 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding.....	2.07	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.02	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 13 00-0120 SF 1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding.....	0.99	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.24	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0121	SF 1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding.....	1.15	
	For Oil Based Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.07	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.11	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.18	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.24	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.44	
	For >100 To 250, Add	0.23	
	For >250 To 500, Add	0.10	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.23	
09 91 13 00-0122	SF 2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding.....	2.25	
	For Oil Based Paint, Add	0.18	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.87	
	For >100 To 250, Add	0.45	
	For >250 To 500, Add	0.20	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.34	
	For >20,000, Deduct	-0.45	
09 91 13 00-0123	Paint Exterior Ceilings <small>(09 91 13)</small>		
09 91 13 00-0124	Paint Exterior Concrete Ceilings <small>(09 91 13 00-0123)</small>		
09 91 13 00-0125	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling.....	0.21	
	For Oil Based Paint, Add	0.01	
	For Epoxy Paint, Add	0.02	
	For Work >15' To 20' Above Floor, Add	0.03	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.04	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.07	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.09	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.13	
	For >100 To 250, Add	0.06	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 13 00-0126	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	1.20	
	For Oil Based Paint, Add	0.07	
	For Epoxy Paint, Add	0.14	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.74	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.24	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0127 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling	1.28	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0128 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	2.30	
For Oil Based Paint, Add	0.14	
For Epoxy Paint, Add	0.25	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.46	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.46	
09 91 13 00-0129 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.93	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0130 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.01	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0131	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.91	
			For Oil Based Paint, Add	0.12	
			For Epoxy Paint, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.37	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.59	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.81	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.17	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0132	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling	0.77	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.11	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 91 13 00-0133	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling	0.86	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0134	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling	1.43	
			For Oil Based Paint, Add	0.10	
			For Epoxy Paint, Add	0.24	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	

09 91 13 00-0135 Paint Exterior Wood Ceilings (09 91 13 00-0123)

09 91 13 00-0136 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0135)



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.24	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.15	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.04	
For >20,000, Deduct	-0.05	
09 91 13 00-0138 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.49	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.89	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
09 91 13 00-0139 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.53	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0140 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.79	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.70	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 13 00-0141 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	1.24	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.44	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0142	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.31	
	For Oil Based Paint, Add	0.08	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.36	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.26	
09 91 13 00-0143	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	2.37	
	For Oil Based Paint, Add	0.16	
	For Work >15' To 20' Above Floor, Add	0.24	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.40	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.64	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.88	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.32	
	For >100 To 250, Add	0.64	
	For >250 To 500, Add	0.28	
	For >2,500 To 5,000, Deduct	-0.12	
	For >5,000 To 10,000, Deduct	-0.24	
	For >10,000 To 20,000, Deduct	-0.36	
	For >20,000, Deduct	-0.47	
09 91 13 00-0144	SF 1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling	0.92	
	For Oil Based Paint, Add	0.06	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.32	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.49	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.18	
09 91 13 00-0145	SF 1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	0.92	
	For Oil Based Paint, Add	0.06	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.32	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.49	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.18	
09 91 13 00-0146	SF 2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	1.69	
	For Oil Based Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.15	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.26	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.41	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.57	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.87	
	For >100 To 250, Add	0.43	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.17	
	For >10,000 To 20,000, Deduct	-0.25	
	For >20,000, Deduct	-0.34	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0147 Paint Exterior Rough Wood Ceilings <small>(09 91 13 00-0135)</small>		
09 91 13 00-0148 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	2.22	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.67	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.92	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0149 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	2.19	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.44	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0150 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	3.86	
For Oil Based Paint, Add	0.23	
For Work >15' To 20' Above Floor, Add	0.48	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.80	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.50	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.51	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.39	
For >10,000 To 20,000, Deduct	-0.58	
For >20,000, Deduct	-0.77	
09 91 13 00-0151 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	2.03	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.33	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.53	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.73	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.10	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.41	
09 91 13 00-0152 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	2.17	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.80	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.20	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.43	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0153	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	3.93	
			<i>For Oil Based Paint, Add</i>	0.27	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.63	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	1.00	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	1.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	2.10	
			<i>For >100 To 250, Add</i>	1.02	
			<i>For >250 To 500, Add</i>	0.45	
			<i>For >2,500 To 5,000, Deduct</i>	-0.20	
			<i>For >5,000 To 10,000, Deduct</i>	-0.39	
			<i>For >10,000 To 20,000, Deduct</i>	-0.59	
			<i>For >20,000, Deduct</i>	-0.79	
09 91 13 00-0154	SF		1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling	1.48	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.75	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	
09 91 13 00-0155	SF		1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.62	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.56	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.86	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000 To 20,000, Deduct</i>	-0.24	
			<i>For >20,000, Deduct</i>	-0.32	
09 91 13 00-0156	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	2.97	
			<i>For Oil Based Paint, Add</i>	0.21	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.71	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.97	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.51	
			<i>For >100 To 250, Add</i>	0.74	
			<i>For >250 To 500, Add</i>	0.33	
			<i>For >2,500 To 5,000, Deduct</i>	-0.15	
			<i>For >5,000 To 10,000, Deduct</i>	-0.30	
			<i>For >10,000 To 20,000, Deduct</i>	-0.45	
			<i>For >20,000, Deduct</i>	-0.59	

09 91 13 00-0157 Paint Exterior Metal Ceilings (09 91 13 00-0123)

09 91 13 00-0158 Paint Exterior Galvanized Ceilings (09 91 13 00-0157)
 Note: Linseed oil or acrylic latex paint.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0159 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.52	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0160 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	1.66	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0161 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	3.04	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.73	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.37	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.30	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	
09 91 13 00-0162 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.17	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0163 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.31	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0164	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	2.35	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.88	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	1.31	
	<i>For >100 To 250, Add</i>	0.64	
	<i>For >250 To 500, Add</i>	0.28	
	<i>For >2,500 To 5,000, Deduct</i>	-0.12	
	<i>For >5,000 To 10,000, Deduct</i>	-0.24	
	<i>For >10,000 To 20,000, Deduct</i>	-0.35	
	<i>For >20,000, Deduct</i>	-0.47	
09 91 13 00-0165	SF 1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	1.12	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.32	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.52	
	<i>For >100 To 250, Add</i>	0.26	
	<i>For >250 To 500, Add</i>	0.12	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.11	
	<i>For >10,000 To 20,000, Deduct</i>	-0.17	
	<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0166	SF 1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.26	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.18	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.29	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.40	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.63	
	<i>For >100 To 250, Add</i>	0.31	
	<i>For >250 To 500, Add</i>	0.14	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.13	
	<i>For >10,000 To 20,000, Deduct</i>	-0.19	
	<i>For >20,000, Deduct</i>	-0.25	
09 91 13 00-0167	SF 2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	2.09	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.41	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.57	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.93	
	<i>For >100 To 250, Add</i>	0.47	
	<i>For >250 To 500, Add</i>	0.21	
	<i>For >2,500 To 5,000, Deduct</i>	-0.10	
	<i>For >5,000 To 10,000, Deduct</i>	-0.21	
	<i>For >10,000 To 20,000, Deduct</i>	-0.31	
	<i>For >20,000, Deduct</i>	-0.42	
09 91 13 00-0168	Paint Exterior Aluminum And Aluminum Alloy Ceilings <small>(09 91 13 00-0157)</small>		
	<i>Note: Alkyd enamel paint.</i>		
09 91 13 00-0169	SF 1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.52	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.42	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.58	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.86	
	<i>For >100 To 250, Add</i>	0.42	
	<i>For >250 To 500, Add</i>	0.18	
	<i>For >2,500 To 5,000, Deduct</i>	-0.08	
	<i>For >5,000 To 10,000, Deduct</i>	-0.15	
	<i>For >10,000 To 20,000, Deduct</i>	-0.23	
	<i>For >20,000, Deduct</i>	-0.30	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.66	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0171 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	3.04	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.53	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.85	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	1.17	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.73	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.37	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.30	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	
09 91 13 00-0172 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.32	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0173 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.46	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0174 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	2.66	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.64	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.88	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.36	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.40	
For >20,000, Deduct	-0.53	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0175	SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.12	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.32	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.52	
	<i>For >100 To 250, Add</i>	0.26	
	<i>For >250 To 500, Add</i>	0.12	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.11	
	<i>For >10,000 To 20,000, Deduct</i>	-0.17	
	<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0176	SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.12	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.32	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.52	
	<i>For >100 To 250, Add</i>	0.26	
	<i>For >250 To 500, Add</i>	0.12	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.11	
	<i>For >10,000 To 20,000, Deduct</i>	-0.17	
	<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0177	SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	2.09	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.26	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.41	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.57	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.93	
	<i>For >100 To 250, Add</i>	0.47	
	<i>For >250 To 500, Add</i>	0.21	
	<i>For >2,500 To 5,000, Deduct</i>	-0.10	
	<i>For >5,000 To 10,000, Deduct</i>	-0.21	
	<i>For >10,000 To 20,000, Deduct</i>	-0.31	
	<i>For >20,000, Deduct</i>	-0.42	
09 91 13 00-0178	Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0157)		
09 91 13 00-0179	SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling	1.23	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.16	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.25	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.34	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.56	
	<i>For >100 To 250, Add</i>	0.28	
	<i>For >250 To 500, Add</i>	0.12	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.12	
	<i>For >10,000 To 20,000, Deduct</i>	-0.18	
	<i>For >20,000, Deduct</i>	-0.25	
09 91 13 00-0180	SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.39	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.43	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.68	
	<i>For >100 To 250, Add</i>	0.33	
	<i>For >250 To 500, Add</i>	0.15	
	<i>For >2,500 To 5,000, Deduct</i>	-0.07	
	<i>For >5,000 To 10,000, Deduct</i>	-0.14	
	<i>For >10,000 To 20,000, Deduct</i>	-0.21	
	<i>For >20,000, Deduct</i>	-0.28	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	2.56	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.74	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.19	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 13 00-0182 Paint Exterior Floors (09 91 13)		
09 91 13 00-0183 Paint Exterior Concrete Floors (09 91 13 00-0182)		
09 91 13 00-0184 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.17	
For Up To 100, Add	0.10	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.03	
09 91 13 00-0185 SF 1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.93	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0186 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	1.01	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0187 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	1.91	
For Oil Based Paint, Add	0.12	
For Epoxy Paint, Add	0.23	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	
09 91 13 00-0188 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.79	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0189 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.88	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.48	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Epoxy Paint, Add</i>	0.21	
			<i>For Up To 100, Add</i>	0.85	
			<i>For >100 To 250, Add</i>	0.41	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	
09 91 13 00-0191	SF		1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks	0.62	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.13	
			<i>For Up To 100, Add</i>	0.27	
			<i>For >100 To 250, Add</i>	0.13	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0192	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.71	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.37	
			<i>For >100 To 250, Add</i>	0.18	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0193	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	1.29	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Epoxy Paint, Add</i>	0.23	
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.26	
09 91 13 00-0194	SF		1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	2.26	
			<i>For Up To 100, Add</i>	0.74	
			<i>For >100 To 250, Add</i>	0.39	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >2,500 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000 To 10,000, Deduct</i>	-0.23	
			<i>For >10,000 To 20,000, Deduct</i>	-0.34	
			<i>For >20,000, Deduct</i>	-0.45	
09 91 13 00-0195	SF		1 Coat Anti-Slip Paint, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	5.33	
			<i>For Up To 100, Add</i>	1.20	
			<i>For >100 To 250, Add</i>	0.70	
			<i>For >250 To 500, Add</i>	0.33	
			<i>For >2,500 To 5,000, Deduct</i>	-0.27	
			<i>For >5,000 To 10,000, Deduct</i>	-0.53	
			<i>For >10,000 To 20,000, Deduct</i>	-0.80	
			<i>For >20,000, Deduct</i>	-1.07	
09 91 13 00-0196	SF		1 Coat Anti-Slip Paint, High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	6.62	
			<i>For Up To 100, Add</i>	1.39	
			<i>For >100 To 250, Add</i>	0.83	
			<i>For >250 To 500, Add</i>	0.40	
			<i>For >2,500 To 5,000, Deduct</i>	-0.33	
			<i>For >5,000 To 10,000, Deduct</i>	-0.66	
			<i>For >10,000 To 20,000, Deduct</i>	-0.99	
			<i>For >20,000, Deduct</i>	-1.32	
09 91 13 00-0197	LF		Paint Exterior Wood Floors (09 91 13 00-0182).....	0.20	
09 91 13 00-0198	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks.....	0.20	
			<i>For Up To 100, Add</i>	0.12	
			<i>For >100 To 250, Add</i>	0.06	
			<i>For >250 To 500, Add</i>	0.03	
			<i>For >2,500 To 5,000, Deduct</i>	-0.01	
			<i>For >5,000 To 10,000, Deduct</i>	-0.02	
			<i>For >10,000 To 20,000, Deduct</i>	-0.03	
			<i>For >20,000, Deduct</i>	-0.04	
09 91 13 00-0199	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks.....	1.18	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.66	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.24	



		Finishes	09
		Painting and Coating	09 90
		Painting	09 91

09

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0200 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks	1.26	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0201 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.38	
For Oil Based Paint, Add	0.15	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 13 00-0202 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	1.11	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0203 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.17	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0204 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.97	
For Oil Based Paint, Add	0.14	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.39	
09 91 13 00-0205 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks	0.77	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0206 SF 1 Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.92	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0207 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	1.54	
For Oil Based Paint, Add	0.11	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0208 SF 1 Coat Non-Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.40	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0209	SF	1	Coat Non-Slip Epoxy Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	6.76	
			<i>For Up To 100, Add</i>	1.49	
			<i>For >100 To 250, Add</i>	0.88	
			<i>For >250 To 500, Add</i>	0.42	
			<i>For >2,500 To 5,000, Deduct</i>	-0.34	
			<i>For >5,000 To 10,000, Deduct</i>	-0.68	
			<i>For >10,000 To 20,000, Deduct</i>	-1.01	
			<i>For >20,000, Deduct</i>	-1.35	
09 91 13 00-0210			Paint Metal Surfaces (09 91 13) Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0211			Paint Structural Steel (09 91 13 00-0210)		
09 91 13 00-0212			Paint Structural Steel, Brush Work (09 91 13 00-0211)		
09 91 13 00-0213	SF	1	Field Coat Primer, Brush/Roller Work, Paint Exterior Structural Steel.....	1.26	
			<i>For Up To 100, Add</i>	0.77	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For Epoxy Paint, Add</i>	0.15	
09 91 13 00-0214	SF	1	Field Coat Paint, Brush/Roller Work, Paint Exterior Structural Steel.....	1.13	
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For Epoxy Paint, Add</i>	0.15	
09 91 13 00-0215			Paint Structural Steel, Spray Work (09 91 13 00-0211)		
09 91 13 00-0216	SF	1	Field Coat Primer, Sprayed, Paint Exterior Structural Steel.....	0.90	
			<i>For Electrostatic Painting, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0217	SF	1	Field Coat Paint, Sprayed, Paint Exterior Structural Steel.....	0.76	
			<i>For Electrostatic Painting, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.39	
			<i>For >100 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For Epoxy Paint, Add</i>	0.13	
09 91 13 00-0218			Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0211)		
09 91 13 00-0219	SF	1	Coat Primer, Sprayed, Paint Exposed Metal Decking.....	1.00	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0220	SF	1	Coat Paint, Sprayed, Paint Exposed Metal Decking.....	1.00	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0221	SF	2	Coats Paint, Sprayed, Paint Exposed Metal Decking.....	1.73	
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.45	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For Epoxy Paint, Add</i>	0.27	
09 91 13 00-0222	SF	1	Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.61	
			<i>For Up To 100, Add</i>	0.85	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For Epoxy Paint, Add</i>	0.26	
09 91 13 00-0223	SF	1	Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.55	
			<i>For Up To 100, Add</i>	0.86	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For Epoxy Paint, Add</i>	0.23	
09 91 13 00-0224	SF	2	Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	2.93	
			<i>For Up To 100, Add</i>	1.58	
			<i>For >100 To 250, Add</i>	0.77	
			<i>For >250 To 500, Add</i>	0.34	
			<i>For Epoxy Paint, Add</i>	0.46	
09 91 13 00-0225	SF	1	Coat Primer, Sprayed, Paint Metal Beams And Bar Joists.....	1.26	
			<i>For Up To 100, Add</i>	0.68	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For Epoxy Paint, Add</i>	0.20	
09 91 13 00-0226	SF	1	Coat Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.26	
			<i>For Up To 100, Add</i>	0.68	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For Epoxy Paint, Add</i>	0.20	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0227 SF 2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	2.16	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
For Epoxy Paint, Add	0.37	
09 91 13 00-0228 Paint Steel Pipes <small>(09 91 13 00-0210)</small>		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0229 LF 1 Coat Primer, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.12	
For Electrostatic Painting, Add	0.28	
For Epoxy Paint, Add	0.24	
09 91 13 00-0230 LF 1 Coat Primer, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.37	
For Electrostatic Painting, Add	0.32	
For Epoxy Paint, Add	0.28	
09 91 13 00-0231 LF 1 Coat Primer, 4" Diameter, Paint Steel Pipes.....	2.68	
For Electrostatic Painting, Add	0.36	
For Epoxy Paint, Add	0.31	
09 91 13 00-0232 LF 1 Coat Primer, 6" To 8" Diameter, Paint Steel Pipes.....	3.35	
For Electrostatic Painting, Add	0.44	
For Epoxy Paint, Add	0.39	
09 91 13 00-0233 LF 1 Coat Primer, 10" To 12" Diameter, Paint Steel Pipes.....	4.22	
For Electrostatic Painting, Add	0.56	
For Epoxy Paint, Add	0.48	
09 91 13 00-0234 LF 1 Coat Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.12	
For Electrostatic Painting, Add	0.28	
For Epoxy Paint, Add	0.24	
09 91 13 00-0235 LF 1 Coat Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.37	
For Electrostatic Painting, Add	0.32	
For Epoxy Paint, Add	0.28	
09 91 13 00-0236 LF 1 Coat Paint, 4" Diameter, Paint Steel Pipes.....	2.68	
For Electrostatic Painting, Add	0.36	
For Epoxy Paint, Add	0.31	
09 91 13 00-0237 LF 1 Coat Paint, 6" To 8" Diameter, Paint Steel Pipes.....	3.35	
For Electrostatic Painting, Add	0.44	
For Epoxy Paint, Add	0.39	
09 91 13 00-0238 LF 1 Coat Paint, 10" To 12" Diameter, Paint Steel Pipes.....	4.22	
For Electrostatic Painting, Add	0.56	
For Epoxy Paint, Add	0.48	
09 91 13 00-0239 LF 2 Coats Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	4.36	
For Electrostatic Painting, Add	0.61	
For Epoxy Paint, Add	0.58	
09 91 13 00-0240 LF 2 Coats Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	4.76	
For Electrostatic Painting, Add	0.64	
For Epoxy Paint, Add	0.56	
09 91 13 00-0241 LF 2 Coats Paint, 4" Diameter, Paint Steel Pipes.....	5.15	
For Electrostatic Painting, Add	0.69	
For Epoxy Paint, Add	0.61	
09 91 13 00-0242 LF 2 Coats Paint, 6" To 8" Diameter, Paint Steel Pipes.....	6.49	
For Electrostatic Painting, Add	0.87	
For Epoxy Paint, Add	0.76	
09 91 13 00-0243 LF 2 Coats Paint, 10" To 12" Diameter, Paint Steel Pipes.....	8.00	
For Electrostatic Painting, Add	1.08	
For Epoxy Paint, Add	0.96	
09 91 13 00-0244 EA 1 Coat Paint, Paint Exposed Single Or Double Gang Outlet Box.....	10.03	
For Electrostatic Painting, Add	1.07	
For Epoxy Paint, Add	0.64	
09 91 13 00-0245 Paint Metal Louvers <small>(09 91 13 00-0210)</small>		
09 91 13 00-0246 SF 1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.71	
For Electrostatic Painting, Add	0.21	
09 91 13 00-0247 SF 1 Coat Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.74	
For Electrostatic Painting, Add	0.22	
09 91 13 00-0248 SF 2 Coats Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	3.58	
For Electrostatic Painting, Add	0.46	
09 91 13 00-0249 Paint Ladders <small>(09 91 13 00-0210)</small>		
09 91 13 00-0250 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders.....	4.55	
For Epoxy Paint, Add	0.29	
09 91 13 00-0251 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders.....	5.08	
For Epoxy Paint, Add	0.32	
09 91 13 00-0252 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders.....	9.99	
For Epoxy Paint, Add	0.59	
09 91 13 00-0253 Paint Handrails <small>(09 91 13 00-0210)</small>		
09 91 13 00-0254 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	1.84	
For Epoxy Paint, Add	0.16	
09 91 13 00-0255 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	2.04	
For Epoxy Paint, Add	0.17	
09 91 13 00-0256 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	3.32	
For Epoxy Paint, Add	0.23	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0257 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets.....	3.53	
For Epoxy Paint, Add	0.49	
09 91 13 00-0258 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets.....	3.84	
For Epoxy Paint, Add	0.51	
09 91 13 00-0259 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets.....	6.52	
For Epoxy Paint, Add	0.80	
09 91 13 00-0260 LF 1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets.....	3.78	
For Epoxy Paint, Add	0.51	
09 91 13 00-0261 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets.....	4.11	
For Epoxy Paint, Add	0.52	
09 91 13 00-0262 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets.....	6.89	
For Epoxy Paint, Add	0.82	
09 91 13 00-0263 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades.....	2.09	
For Epoxy Paint, Add	0.26	
09 91 13 00-0264 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades.....	2.29	
For Epoxy Paint, Add	0.27	
09 91 13 00-0265 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades.....	4.21	
For Epoxy Paint, Add	0.53	
09 91 13 00-0266 Paint Grating (09 91 13 00-0210)		
09 91 13 00-0267 SF 1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames.....	3.33	
For Epoxy Paint, Add	0.24	
09 91 13 00-0268 SF 1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames.....	3.40	
For Epoxy Paint, Add	0.26	
09 91 13 00-0269 SF 2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames.....	5.16	
For Epoxy Paint, Add	0.44	
09 91 13 00-0270 Equipment And Tanks (09 91 13 00-0210)		
09 91 13 00-0271 Paint Valves (09 91 13 00-0270)		
Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0272 EA Prime And Paint 4" And Smaller Valve.....	36.12	
09 91 13 00-0273 EA Prime And Paint 6" To 10" Valve.....	44.51	
09 91 13 00-0274 EA Prime And Paint 12" To 18" Valve.....	58.37	
09 91 13 00-0275 EA Prime And Paint 20" To 24" Valve.....	77.69	
09 91 13 00-0276 EA Prime And Paint >24" To 36" Valve.....	105.41	
09 91 13 00-0277 EA Prime And Paint >36" To 48" Valve.....	144.45	
09 91 13 00-0278 Paint Pumps And Motors (09 91 13 00-0270)		
Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0279 EA Prime And Paint Pump Under 1 HP.....	111.28	
09 91 13 00-0280 EA Prime And Paint Pump, 1 HP To 5 HP.....	147.79	
09 91 13 00-0281 EA Prime And Paint Pump, >5 HP To 10 HP.....	178.84	
09 91 13 00-0282 EA Prime And Paint Pump, >10 HP To 20 HP.....	201.49	
09 91 13 00-0283 EA Prime And Paint Pump, >20 HP To 30 HP.....	235.07	
09 91 13 00-0284 EA Prime And Paint Pump, >30 HP To 50 HP.....	268.65	
09 91 13 00-0285 EA Prime And Paint Pump, >50 HP To 75 HP.....	296.77	
09 91 13 00-0286 EA Prime And Paint Pump, >75 HP.....	335.82	
09 91 13 00-0287 Paint Storage Tanks (09 91 13 00-0270)		
09 91 13 00-0288 SF 1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface.....	1.44	
09 91 13 00-0289 SF 1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface.....	1.91	
09 91 13 00-0290 SF 2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface.....	3.67	
09 91 13 00-0291 SF 1 Coat Primer, Roller, Paint Storage Tank, Interior Surface.....	1.90	
09 91 13 00-0292 SF 1 Coat Paint, Roller, Paint Storage Tank, Interior Surface.....	2.42	
09 91 13 00-0293 SF 2 Coats Paint, Roller, Paint Storage Tank, Interior Surface.....	4.67	
09 91 13 00-0294 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Exterior Surface.....	1.48	
09 91 13 00-0295 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	1.87	
09 91 13 00-0296 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	3.66	
09 91 13 00-0297 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Interior Surface.....	1.68	
09 91 13 00-0298 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Interior Surface.....	2.24	
09 91 13 00-0299 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Interior Surface.....	4.36	
09 91 13 00-0300 Other Site Work Painting (09 91 13)		
09 91 13 00-0301 Paint Fencing (09 91 13 00-0300)		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0302 SF 1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence.....	1.06	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 91 13 00-0303 SF 2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence.....	2.01	
For Epoxy Paint, Add	0.26	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0304 SF 1 Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.92	
For Epoxy Paint, Add	0.15	
For Electrostatic Painting, Add	0.14	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
09 91 13 00-0305 SF 2 Coats Paint, Sprayed, Paint Existing Chain Link Fence	1.72	
For Epoxy Paint, Add	0.28	
For Electrostatic Painting, Add	0.27	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 91 13 00-0306 SF 1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence	0.99	
For Epoxy Paint, Add	0.15	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
09 91 13 00-0307 SF 1 Coat Paint, Brush/Roller, Paint Wrought Iron Fence	0.92	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
09 91 13 00-0308 SF Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence	0.68	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
09 91 13 00-0309 SF 1 Coat Primer, Brush/Roller, Paint Picket Fence	1.22	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 91 13 00-0310 SF 1 Coat Paint, Brush/Roller, Paint Picket Fence	1.22	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 91 13 00-0311 SF Each Additional Coat, Brush/Roller, Paint Picket Fence	0.88	
For Epoxy Paint, Add	0.09	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 91 13 00-0312 SF 1 Coat Paint, Brush/Roller, Paint Wood Fences	0.93	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
09 91 13 00-0313 SF 2 Coats Paint, Brush/Roller, Paint Wood Fences	1.71	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 91 13 00-0314 SF 1 Coat Paint, Sprayed, Paint Wood Fences	0.71	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
09 91 13 00-0315 SF 2 Coats Paint, Sprayed, Paint Wood Fences	1.35	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 91 13 00-0316 Paint Flagpoles (09 91 13 00-0300)		
09 91 13 00-0317 EA 1 Coat Paint, 20' High, Paint Steel Flagpole	228.84	
09 91 13 00-0318 EA 1 Coat Paint, 30' High, Paint Steel Flagpole	309.75	
09 91 13 00-0319 EA 1 Coat Paint, 40' High, Paint Steel Flagpole	390.69	
09 91 13 00-0320 EA 1 Coat Paint, 50' High, Paint Steel Flagpole	471.65	
09 91 13 00-0321 EA 1 Coat Paint, 70' High, Paint Steel Flagpole	626.79	
09 91 13 00-0322 EA 1 Coat Paint, 80' High, Paint Steel Flagpole	706.89	
09 91 13 00-0323 EA 1 Coat Paint, 90' High, Paint Steel Flagpole	787.01	
09 91 13 00-0324 Paint Lattice Or Trellis (09 91 13 00-0300)		
09 91 13 00-0325 SF 1 Coat Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	1.68	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 91 13 00-0326 SF 2 Coats Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	3.13	
For Up To 100, Add	2.02	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.41	
09 91 13 00-0327 Paint Exterior Stairs (09 91 13)		
09 91 13 00-0328 Paint Exterior Concrete Stairs (09 91 13 00-0327)		
09 91 13 00-0329 RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide)	19.80	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0330	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	19.80	
09 91 13 00-0331	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	25.71	
09 91 13 00-0332	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	43.15	
09 91 13 00-0333	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	39.60	
09 91 13 00-0334		Paint Exterior Metal Stairs <small>(09 91 13 00-0327)</small>		
09 91 13 00-0335	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	10.56	
		<i>For Oil Based Paint, Add</i>	0.58	
09 91 13 00-0336	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	10.56	
		<i>For Oil Based Paint, Add</i>	0.58	
09 91 13 00-0337	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	21.12	
		<i>For Oil Based Paint, Add</i>	1.17	
09 91 13 00-0338		Paint Exterior Wood Stairs <small>(09 91 13 00-0327)</small>		
09 91 13 00-0339	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	10.37	
09 91 13 00-0340	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	10.37	
09 91 13 00-0341	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	16.28	
09 91 13 00-0342	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	33.72	
09 91 13 00-0343	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	20.73	
09 91 13 00-0344		Paint Exterior Stair Nosing <small>(09 91 13 00-0327)</small>		
09 91 13 00-0345	LF	1 Coat Paint, Up To 2", Non-Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	2.00	
09 91 13 00-0346		Paint Exterior Trim <small>(09 91 13)</small>		
09 91 13 00-0347		Paint Exterior Metal Trim And Gutters <small>(09 91 13 00-0346)</small>		
09 91 13 00-0348	SF	1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim.....	1.40	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.17	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.28	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.44	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.61	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0349	SF	1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	1.53	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.31	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.49	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.68	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0350	SF	2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	2.77	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.33	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.55	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.87	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	1.20	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0351	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.28	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.25	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.39	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.54	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0352	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.39	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.44	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.60	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0353	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	2.50	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.29	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.48	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.76	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	1.05	
		<i>Note: Applied only to work area above 40'.</i>		



Finishes	09	
Painting and Coating	09 90	09
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0354 LF 1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.19	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.45	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.72	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.98	
Note: Applied only to work area above 40'.		
09 91 13 00-0355 LF 2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.70	
For Work >15' To 20' Above Floor, Add	0.39	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.66	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.05	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.45	
Note: Applied only to work area above 40'.		
09 91 13 00-0356 Paint Exterior Wood Trim (09 91 13 00-0346)		
09 91 13 00-0357 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Trim	2.07	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.63	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.87	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.26	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 13 00-0358 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Trim	2.26	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.43	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.68	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.94	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
09 91 13 00-0359 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Trim	4.11	
For Oil Based Paint, Add	0.26	
For Work >15' To 20' Above Floor, Add	0.45	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.76	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.43	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
For >2,500 To 5,000, Deduct	-0.21	
For >5,000 To 10,000, Deduct	-0.41	
For >10,000 To 20,000, Deduct	-0.62	
For >20,000, Deduct	-0.82	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0360	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.67	
	For Oil Based Paint, Add	0.11	
	For Work >15' To 20' Above Floor, Add	0.18	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.30	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.47	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.65	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.96	
	For >100 To 250, Add	0.46	
	For >250 To 500, Add	0.20	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.17	
	For >10,000 To 20,000, Deduct	-0.25	
	For >20,000, Deduct	-0.33	
09 91 13 00-0361	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	1.86	
	For Oil Based Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.20	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.33	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.52	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.72	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.07	
	For >100 To 250, Add	0.51	
	For >250 To 500, Add	0.22	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.28	
	For >20,000, Deduct	-0.37	
09 91 13 00-0362	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim	3.48	
	For Oil Based Paint, Add	0.23	
	For Work >15' To 20' Above Floor, Add	0.36	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.60	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.96	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.31	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.96	
	For >100 To 250, Add	0.95	
	For >250 To 500, Add	0.41	
	For >2,500 To 5,000, Deduct	-0.17	
	For >5,000 To 10,000, Deduct	-0.35	
	For >10,000 To 20,000, Deduct	-0.52	
	For >20,000, Deduct	-0.70	
09 91 13 00-0363	SF 1 Coat Primer, Sprayed, Paint Exterior Wood Trim	1.34	
	For Oil Based Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.11	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.19	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.30	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.41	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.65	
	For >100 To 250, Add	0.32	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.27	
09 91 13 00-0364	SF 1 Coat Paint, Sprayed, Paint Exterior Wood Trim	1.48	
	For Oil Based Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.37	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	13	00-0365	SF 2 Coats Paint, Sprayed, Paint Exterior Wood Trim.....	2.81	
				<i>For Oil Based Paint, Add</i>	0.20	
				<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
				<i>Note: Applied only to work area above 15' to 20'.</i>		
				<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
				<i>Note: Applied only to work area above 30' to 40'.</i>		
				<i>For Work >40' Above Floor, Add</i>	0.89	
				<i>Note: Applied only to work area above 40'.</i>		
				<i>For Up To 100, Add</i>	1.39	
				<i>For >100 To 250, Add</i>	0.68	
				<i>For >250 To 500, Add</i>	0.30	
				<i>For >2,500 To 5,000, Deduct</i>	-0.14	
				<i>For >5,000 To 10,000, Deduct</i>	-0.28	
				<i>For >10,000 To 20,000, Deduct</i>	-0.42	
				<i>For >20,000, Deduct</i>	-0.56	
	09 91	13	00-0366	Paint Exterior Miscellaneous Metal Surfaces <small>(09 91 13)</small>		
	09 91	13	00-0367	SF 1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.70	
				<i>For Epoxy Paint, Add</i>	0.22	
				<i>For Electrostatic Painting, Add</i>	0.24	
	09 91	13	00-0368	SF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	1.54	
				<i>For Epoxy Paint, Add</i>	0.17	
				<i>For Electrostatic Painting, Add</i>	0.20	
	09 91	13	00-0369	SF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	3.14	
				<i>For Epoxy Paint, Add</i>	0.36	
				<i>For Electrostatic Painting, Add</i>	0.41	
	09 91	33		Painting Materials <small>(09 91)</small>		
				Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
	09 91	33	00-0001	Primer <small>(09 91 33)</small>		
	09 91	33	00-0002	GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	77.18	
	09 91	33	00-0003	GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	62.77	
	09 91	33	00-0004	GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon	79.59	
	09 91	33	00-0005	GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	176.62	
	09 91	33	00-0006	EA Cement Base Primer, 25 LB Sack	65.64	
	09 91	33	00-0007	GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	101.20	
	09 91	33	00-0008	GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	81.23	
	09 91	33	00-0009	GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	62.77	
	09 91	33	00-0010	GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	57.03	
	09 91	33	00-0011	GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	100.52	
	09 91	33	00-0012	GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	83.69	
	09 91	33	00-0013	GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	83.69	
	09 91	33	00-0014	GAL Latex Wood Primer, Exterior, 300 SF Per Gallon	94.36	
	09 91	33	00-0015	GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon.....	61.54	
	09 91	33	00-0016	GAL Red Alkyd Primer, 500 SF Per Gallon	132.09	
	09 91	33	00-0017	GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	65.64	
	09 91	33	00-0018	GAL Zinc Chromate Primer, 300 SF Per Gallon	52.51	
	09 91	33	00-0019	GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	135.80	
	09 91	33	00-0020	GAL Stain Killer, Alcohol Base.....	84.68	
	09 91	33	00-0021	GAL Sealer, Primer Kilz, 400 SF Per Gallon.....	95.55	
	09 91	33	00-0022	Paint <small>(09 91 33)</small>		
	09 91	33	00-0023	GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	45.95	
	09 91	33	00-0024	GAL Acrylic Urethane Sealer	227.83	
	09 91	33	00-0025	GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type	24.62	
				Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
	09 91	33	00-0026	GAL Concrete Enamel Epoxy, 350 SF Per Gallon.....	142.36	
	09 91	33	00-0027	GAL Concrete Acrylic Sealer, 400 SF Per Gallon	74.67	
	09 91	33	00-0028	GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon	24.62	
	09 91	33	00-0029	GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	37.33	
	09 91	33	00-0030	GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	101.82	
	09 91	33	00-0031	GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon	100.52	
	09 91	33	00-0032	GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	82.05	
	09 91	33	00-0033	GAL Exterior, Flat, Oil Base.....	75.22	
	09 91	33	00-0034	GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	71.39	
	09 91	33	00-0035	GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	84.10	
	09 91	33	00-0036	GAL Exterior, Latex Flat Paint, 300 SF Per Gallon.....	74.67	
	09 91	33	00-0037	GAL Exterior, Water Base, Latex Gloss Enamel.....	106.29	
	09 91	33	00-0038	GAL Cold Galvanizing Paint	352.88	
	09 91	33	00-0039	GAL High Heat Paint.....	187.01	
	09 91	33	00-0040	GAL Heat Resistant Paint.....	124.67	
	09 91	33	00-0041	GAL Zinc Chromate Paint.....	112.80	
	09 91	33	00-0042	QT Anti-Rust Enamel, 500 SF Per Quart.....	44.53	
	09 91	33	00-0043	GAL Rust Inhibitor, Ferrous Metal	124.67	
	09 91	33	00-0044	GAL Masonry Waterproofing, 100 SF Per Gallon	74.67	
	09 91	33	00-0045	GAL Alkyd Latex, Black	92.52	
	09 91	33	00-0046	GAL Alkyd Latex, White	84.10	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 33 00-0047	GAL	Alkyd Latex, Colors.....	101.42	
09 91 33 00-0048	QT	Wrought Iron Paint, Black	113.79	
09 91 33 00-0049	GAL	Vinyl Paint.....	125.54	
09 91 33 00-0050	GAL	Silicone Alkyd	152.62	
09 91 33 00-0051	GAL	2 Component Solvent Based Acrylic Epoxy	155.08	
09 91 33 00-0052	GAL	2 Component Solvent Based Polyester Epoxy	194.47	
09 91 33 00-0053	GAL	Chlorinated Rubber.....	142.77	
09 91 33 00-0054	GAL	Polyamide Epoxy Sealer.....	147.70	
09 91 33 00-0055	GAL	Coal Tar Epoxy	105.85	
09 91 33 00-0056	GAL	Swimming Pool Enamel, 350 SF Per Gallon.....	132.11	
09 91 33 00-0057	GAL	Swimming Pool Epoxy Or Urethane Base	172.31	
09 91 33 00-0058	GAL	Swimming Pool Rubber Base	118.16	
09 91 33 00-0059	GAL	Interior, Latex Flat Paint, 300 SF Per Gallon	75.08	
09 91 33 00-0060	GAL	Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	92.51	
09 91 33 00-0061	GAL	Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	153.85	
09 91 33 00-0062	GAL	Interior, Ceiling White Latex Flat, 350 SF Per Gallon	52.10	
09 91 33 00-0063	GAL	Linseed Oil.....	45.54	
09 91 33 00-0064	GAL	Latex Floor Paint, 300 SF Per Gallon	74.67	
09 91 33 00-0065	GAL	Acrylic Floor Paint, 400 SF Per Gallon.....	84.10	
09 91 33 00-0066	GAL	Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	76.92	
09 91 33 00-0067	GAL	Acoustic Spray-On Texture, Finish	61.81	

09 91 33 00-0068 Stain, Varnish (09 91 33)

09 91 33 00-0069	GAL	Thompson Water Sealer, 150 SF Per Gallon.....	42.67	
09 91 33 00-0070	GAL	Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	79.59	
09 91 33 00-0071	GAL	Redwood Oil Stain, 300 SF Per Gallon.....	70.98	
09 91 33 00-0072	GAL	Varnish, Clear.....	43.29	
09 91 33 00-0073	GAL	Penetrating Water-Repellent Stain	31.45	
09 91 33 00-0074	GAL	Redwood Hue Or Clear Stain	28.10	
09 91 33 00-0075	GAL	Polyurethane.....	49.34	
09 91 33 00-0076	GAL	Lacquer, Semi-Gloss	74.89	
09 91 33 00-0077	GAL	Shellac, Clear	98.24	
09 91 33 00-0078	GAL	Acetone.....	32.41	
09 91 33 00-0079	GAL	Paint Thinner	8.00	
09 91 33 00-0080	GAL	Shellac Or Lacquer Thinner	32.82	
09 91 33 00-0081	GAL	Turpentine.....	45.13	
09 91 33 00-0082	GAL	Wood Filler Paste	77.13	
09 91 33 00-0083	GAL	Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	61.54	
09 91 33 00-0084	GAL	Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	103.41	

09 91 43 Surface Preparation (09 91)
 See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.

09 96 High-Performance Coatings (09 90)

09 96 23 Graffiti-Resistant Coatings (09 96)

09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)

09 96 23 00-0002	SF	Sacrificial Anti-Graffiti Coating, Per Coat.....	1.73	
		For Up To 100, Add	1.06	
		For >100 To 250, Add	0.51	
		For >250 To 500, Add	0.22	
09 96 23 00-0003	SF	Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.83	
		For Up To 100, Add	1.07	
		For >100 To 250, Add	0.52	
		For >250 To 500, Add	0.22	

09 96 53 Elastomeric Coatings (09 96)

09 96 53 00-0001 Elastomeric (09 96 53)

09 96 53 00-0002	SF	1 Coat, 5.3 To 8 Wet Mils, Brush Work, Elastomeric Primer Applied To Walls And Floors.....	1.06	
		For Work >15' To 20' Above Floor, Add	0.13	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.22	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.35	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.48	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.68	
		For >100 To 250, Add	0.32	
		For >250 To 500, Add	0.14	
		For >2,500 To 5,000, Deduct	-0.05	
		For >5,000 To 10,000, Deduct	-0.11	
		For >10,000 To 20,000, Deduct	-0.16	
		For >20,000, Deduct	-0.21	



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Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0003 SF 1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors	0.89	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 96 53 00-0004 SF 1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Walls And Floors	0.71	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.19	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.26	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 96 53 00-0005 SF 1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Walls And Floors	2.16	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.56	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.94	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.43	
09 96 53 00-0006 SF 1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors	2.00	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 96 53 00-0007 SF 1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Walls And Floors	2.11	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 96 53 00-0008	SF 1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.20	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.25	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.40	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.56	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.79	
	<i>For >100 To 250, Add</i>	0.37	
	<i>For >250 To 500, Add</i>	0.16	
	<i>For >2,500 To 5,000, Deduct</i>	-0.06	
	<i>For >5,000 To 10,000, Deduct</i>	-0.12	
	<i>For >10,000 To 20,000, Deduct</i>	-0.18	
	<i>For >20,000, Deduct</i>	-0.24	
09 96 53 00-0009	SF 1 Coat, 5.3 To 8 Wet Mills, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead	1.02	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.47	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.66	
	<i>For >100 To 250, Add</i>	0.31	
	<i>For >250 To 500, Add</i>	0.14	
	<i>For >2,500 To 5,000, Deduct</i>	-0.05	
	<i>For >5,000 To 10,000, Deduct</i>	-0.10	
	<i>For >10,000 To 20,000, Deduct</i>	-0.15	
	<i>For >20,000, Deduct</i>	-0.20	
09 96 53 00-0010	SF 1 Coat, 5.3 To 8 Wet Mills, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead	0.79	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.31	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.45	
	<i>For >100 To 250, Add</i>	0.22	
	<i>For >250 To 500, Add</i>	0.10	
	<i>For >2,500 To 5,000, Deduct</i>	-0.04	
	<i>For >5,000 To 10,000, Deduct</i>	-0.08	
	<i>For >10,000 To 20,000, Deduct</i>	-0.12	
	<i>For >20,000, Deduct</i>	-0.16	
09 96 53 00-0011	SF 1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead	2.32	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.30	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.47	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.65	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	1.06	
	<i>For >100 To 250, Add</i>	0.53	
	<i>For >250 To 500, Add</i>	0.23	
	<i>For >2,500 To 5,000, Deduct</i>	-0.12	
	<i>For >5,000 To 10,000, Deduct</i>	-0.23	
	<i>For >10,000 To 20,000, Deduct</i>	-0.35	
	<i>For >20,000, Deduct</i>	-0.46	
09 96 53 00-0012	SF 1 Coat, 13 To 16 Wet Mills, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead.....	2.13	
	<i>For Work >15' To 20' Above Floor, Add</i>	0.15	
	<i>Note: Applied only to work area above 15' to 20'.</i>		
	<i>For Work >20' To 30' Above Floor, Add</i>	0.25	
	<i>Note: Applied only to work area above 20'.</i>		
	<i>For Work >30' To 40' Above Floor, Add</i>	0.40	
	<i>Note: Applied only to work area above 30' to 40'.</i>		
	<i>For Work >40' Above Floor, Add</i>	0.54	
	<i>Note: Applied only to work area above 40'.</i>		
	<i>For Up To 100, Add</i>	0.91	
	<i>For >100 To 250, Add</i>	0.46	
	<i>For >250 To 500, Add</i>	0.21	
	<i>For >2,500 To 5,000, Deduct</i>	-0.11	
	<i>For >5,000 To 10,000, Deduct</i>	-0.21	
	<i>For >10,000 To 20,000, Deduct</i>	-0.32	
	<i>For >20,000, Deduct</i>	-0.43	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0013 SF 1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead	2.20	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 96 56 Epoxy Coatings (09 96)		
09 96 56 00-0001 High Build Epoxy (09 96 56)		
09 96 56 00-0002 SF 50 Mil, High Build Epoxy	3.58	
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004 SF Laminated Epoxy With Fiberglass	7.15	
09 96 66 Aggregate Wall Coatings (09 96)		
09 96 66 00-0001 Troweled On (09 96 66)		
09 96 66 00-0002 SF Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	4.91	
09 96 66 00-0003 SF Exposed Aggregate - 1/2" To 5/8" Troweled On.....	8.83	
09 96 66 00-0004 SF Exposed Aggregate - 1" Troweled On	13.10	
09 96 66 00-0005 Sprayed On (09 96 66)		
09 96 66 00-0006 SF Exposed Aggregate - 1/8" - Sprayed On.....	3.99	
09 97 Special Coatings (09 90)		
09 97 13 Steel Coatings (09 97)		
09 97 13 23 Exterior Steel Coatings (09 97 13)		
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0002 SSPC SP2 Hand Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: Hand Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 2 or ISO 8501-1 St 3.		
09 97 13 23-0003 SF Type 1 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.87	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 23-0004 SF Type 2 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.79	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 23-0005 SF Type 3 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.79	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP2 Hand Tool Cleaning Surface Preparation	2.43	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.36	
09 97 13 23-0007 SSPC SP3 Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: Power Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 3 or ISO 8501-1 St 3.		

09 Finishes

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0008	SF		Type 1 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.90	
			<i>For Up To 100, Add</i>	1.43	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.29	
09 97 13 23-0009	SF		Type 2 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.83	
			<i>For Up To 100, Add</i>	1.37	
			<i>For >100 To 250, Add</i>	0.64	
			<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0010	SF		Type 3 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.83	
			<i>For Up To 100, Add</i>	1.37	
			<i>For >100 To 250, Add</i>	0.64	
			<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0011	SF		Up To 14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation.....	2.48	
			<i>For Up To 100, Add</i>	1.86	
			<i>For >100 To 250, Add</i>	0.87	
			<i>For >250 To 500, Add</i>	0.37	
09 97 13 23-0012	SF		>14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation.....	2.23	
			<i>For Up To 100, Add</i>	1.67	
			<i>For >100 To 250, Add</i>	0.78	
			<i>For >250 To 500, Add</i>	0.33	
09 97 13 23-0013			SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
			Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11		
09 97 13 23-0014	SF		Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.17	
			<i>For Up To 100, Add</i>	0.82	
			<i>For >100 To 250, Add</i>	0.38	
			<i>For >250 To 500, Add</i>	0.17	
09 97 13 23-0015	SF		Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.04	
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
09 97 13 23-0016	SF		Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.03	
			<i>For Up To 100, Add</i>	0.72	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
09 97 13 23-0017	SF		Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation.....	1.46	
			<i>For Up To 100, Add</i>	1.04	
			<i>For >100 To 250, Add</i>	0.49	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 23-0018			SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
			Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.		
09 97 13 23-0019	SF		Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	3.02	
			<i>For Up To 100, Add</i>	2.16	
			<i>For >100 To 250, Add</i>	1.01	
			<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0020	SF		Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.63	
			<i>For Up To 100, Add</i>	1.87	
			<i>For >100 To 250, Add</i>	0.88	
			<i>For >250 To 500, Add</i>	0.38	
09 97 13 23-0021	SF		Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.44	
			<i>For Up To 100, Add</i>	1.73	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0022	SF		Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	3.79	
			<i>For Up To 100, Add</i>	2.73	
			<i>For >100 To 250, Add</i>	1.28	
			<i>For >250 To 500, Add</i>	0.55	
09 97 13 23-0023			SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
			Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0024 SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	5.87	
For Up To 100, Add	4.22	
For >100 To 250, Add	1.98	
For >250 To 500, Add	0.85	
09 97 13 23-0025 SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	5.03	
For Up To 100, Add	3.60	
For >100 To 250, Add	1.69	
For >250 To 500, Add	0.73	
09 97 13 23-0026 SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.62	
For Up To 100, Add	3.30	
For >100 To 250, Add	1.55	
For >250 To 500, Add	0.67	
09 97 13 23-0027 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation	7.12	
For Up To 100, Add	5.16	
For >100 To 250, Add	2.42	
For >250 To 500, Add	1.04	
09 97 13 23-0028 SSSP SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSSP-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSSP-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0029 SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	4.37	
For Up To 100, Add	3.13	
For >100 To 250, Add	1.47	
For >250 To 500, Add	0.63	
09 97 13 23-0030 SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.72	
For Up To 100, Add	2.66	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 23-0031 SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.51	
For Up To 100, Add	2.51	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 23-0032 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	5.16	
For Up To 100, Add	3.74	
For >100 To 250, Add	1.75	
For >250 To 500, Add	0.75	
09 97 13 23-0033 Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0034 1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0035 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat	1.24	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
09 97 13 23-0036 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat	0.94	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
09 97 13 23-0037 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat	0.83	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 23-0038 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.48	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
09 97 13 23-0039 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat	1.74	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0040 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat	1.29	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 23-0041 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat	1.16	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0042 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	2.10	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0043 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0033)		

09 Finishes
09 90 Painting and Coating
09 97 Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0044	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.67	
			<i>For Up To 100, Add</i>	2.38	
			<i>For >100 To 250, Add</i>	1.13	
			<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0045	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.66	
			<i>For Up To 100, Add</i>	1.66	
			<i>For >100 To 250, Add</i>	0.79	
			<i>For >250 To 500, Add</i>	0.34	
09 97 13 23-0046	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.46	
			<i>For Up To 100, Add</i>	1.51	
			<i>For >100 To 250, Add</i>	0.72	
			<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0047	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.46	
			<i>For Up To 100, Add</i>	2.96	
			<i>For >100 To 250, Add</i>	1.40	
			<i>For >250 To 500, Add</i>	0.61	
09 97 13 23-0048	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.75	
			<i>For Up To 100, Add</i>	1.79	
			<i>For >100 To 250, Add</i>	0.85	
			<i>For >250 To 500, Add</i>	0.37	
09 97 13 23-0049	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.99	
			<i>For Up To 100, Add</i>	1.24	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.26	
09 97 13 23-0050	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.85	
			<i>For Up To 100, Add</i>	1.14	
			<i>For >100 To 250, Add</i>	0.54	
			<i>For >250 To 500, Add</i>	0.24	
09 97 13 23-0051	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.33	
			<i>For Up To 100, Add</i>	2.21	
			<i>For >100 To 250, Add</i>	1.05	
			<i>For >250 To 500, Add</i>	0.45	
09 97 13 23-0052	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.54	
			<i>For Up To 100, Add</i>	3.78	
			<i>For >100 To 250, Add</i>	1.78	
			<i>For >250 To 500, Add</i>	0.77	
09 97 13 23-0053	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.95	
			<i>For Up To 100, Add</i>	2.63	
			<i>For >100 To 250, Add</i>	1.24	
			<i>For >250 To 500, Add</i>	0.54	
09 97 13 23-0054	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.63	
			<i>For Up To 100, Add</i>	2.39	
			<i>For >100 To 250, Add</i>	1.13	
			<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0055	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	6.80	
			<i>For Up To 100, Add</i>	4.72	
			<i>For >100 To 250, Add</i>	2.22	
			<i>For >250 To 500, Add</i>	0.96	
09 97 13 23-0056	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.15	
			<i>For Up To 100, Add</i>	2.84	
			<i>For >100 To 250, Add</i>	1.34	
			<i>For >250 To 500, Add</i>	0.58	
09 97 13 23-0057	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.96	
			<i>For Up To 100, Add</i>	1.97	
			<i>For >100 To 250, Add</i>	0.93	
			<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0058	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.73	
			<i>For Up To 100, Add</i>	1.80	
			<i>For >100 To 250, Add</i>	0.85	
			<i>For >250 To 500, Add</i>	0.37	
09 97 13 23-0059	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	5.10	
			<i>For Up To 100, Add</i>	3.54	
			<i>For >100 To 250, Add</i>	1.67	
			<i>For >250 To 500, Add</i>	0.72	
09 97 13 23-0060			Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>		
09 97 13 23-0061	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.83	
			<i>For Up To 100, Add</i>	1.85	
			<i>For >100 To 250, Add</i>	0.88	
			<i>For >250 To 500, Add</i>	0.38	
09 97 13 23-0062	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.31	
			<i>For Up To 100, Add</i>	1.49	
			<i>For >100 To 250, Add</i>	0.71	
			<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0063	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.13	
			<i>For Up To 100, Add</i>	1.35	
			<i>For >100 To 250, Add</i>	0.64	
			<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0064	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.51	
			<i>For Up To 100, Add</i>	2.36	
			<i>For >100 To 250, Add</i>	1.11	
			<i>For >250 To 500, Add</i>	0.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0065 SF Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.81	
<i>For Up To 100, Add</i>	1.18	
<i>For >100 To 250, Add</i>	0.56	
<i>For >250 To 500, Add</i>	0.24	
09 97 13 23-0066 SF Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.48	
<i>For Up To 100, Add</i>	0.95	
<i>For >100 To 250, Add</i>	0.45	
<i>For >250 To 500, Add</i>	0.20	
09 97 13 23-0067 SF Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.36	
<i>For Up To 100, Add</i>	0.86	
<i>For >100 To 250, Add</i>	0.41	
<i>For >250 To 500, Add</i>	0.18	
09 97 13 23-0068 SF Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.25	
<i>For Up To 100, Add</i>	1.51	
<i>For >100 To 250, Add</i>	0.71	
<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0069 SF Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.96	
<i>For Up To 100, Add</i>	2.70	
<i>For >100 To 250, Add</i>	1.27	
<i>For >250 To 500, Add</i>	0.55	
09 97 13 23-0070 SF Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.22	
<i>For Up To 100, Add</i>	2.17	
<i>For >100 To 250, Add</i>	1.02	
<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0071 SF Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.94	
<i>For Up To 100, Add</i>	1.96	
<i>For >100 To 250, Add</i>	0.93	
<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0072 SF Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	4.96	
<i>For Up To 100, Add</i>	3.44	
<i>For >100 To 250, Add</i>	1.62	
<i>For >250 To 500, Add</i>	0.70	
09 97 13 23-0073 SF Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.54	
<i>For Up To 100, Add</i>	1.73	
<i>For >100 To 250, Add</i>	0.82	
<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0074 SF Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.05	
<i>For Up To 100, Add</i>	1.38	
<i>For >100 To 250, Add</i>	0.65	
<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0075 SF Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.87	
<i>For Up To 100, Add</i>	1.25	
<i>For >100 To 250, Add</i>	0.59	
<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0076 SF Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	3.17	
<i>For Up To 100, Add</i>	2.20	
<i>For >100 To 250, Add</i>	1.03	
<i>For >250 To 500, Add</i>	0.45	
09 97 13 23-0077 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>		
09 97 13 23-0078 SF Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.68	
<i>For Up To 100, Add</i>	2.76	
<i>For >100 To 250, Add</i>	1.33	
<i>For >250 To 500, Add</i>	0.58	
09 97 13 23-0079 SF Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.42	
<i>For Up To 100, Add</i>	1.89	
<i>For >100 To 250, Add</i>	0.91	
<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0080 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.03	
<i>For Up To 100, Add</i>	1.59	
<i>For >100 To 250, Add</i>	0.78	
<i>For >250 To 500, Add</i>	0.34	
09 97 13 23-0081 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	5.29	
<i>For Up To 100, Add</i>	3.19	
<i>For >100 To 250, Add</i>	1.53	
<i>For >250 To 500, Add</i>	0.66	
09 97 13 23-0082 SF Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.27	
<i>For Up To 100, Add</i>	1.93	
<i>For >100 To 250, Add</i>	0.93	
<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0083 SF Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.39	
<i>For Up To 100, Add</i>	1.32	
<i>For >100 To 250, Add</i>	0.64	
<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0084 SF Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.12	
<i>For Up To 100, Add</i>	1.12	
<i>For >100 To 250, Add</i>	0.54	
<i>For >250 To 500, Add</i>	0.24	
09 97 13 23-0085 SF Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.70	
<i>For Up To 100, Add</i>	2.24	
<i>For >100 To 250, Add</i>	1.07	
<i>For >250 To 500, Add</i>	0.47	

09 Finishes

09 90 Painting and Coating

09 97 Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 97 13 23-0086 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>					
09 97 13 23-0087	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	5.03	
			<i>For Up To 100, Add</i>	2.81	
			<i>For >100 To 250, Add</i>	1.36	
			<i>For >250 To 500, Add</i>	0.59	
09 97 13 23-0088	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.74	
			<i>For Up To 100, Add</i>	1.94	
			<i>For >100 To 250, Add</i>	0.95	
			<i>For >250 To 500, Add</i>	0.42	
09 97 13 23-0089	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.35	
			<i>For Up To 100, Add</i>	1.64	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.36	
09 97 13 23-0090	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	5.65	
			<i>For Up To 100, Add</i>	3.25	
			<i>For >100 To 250, Add</i>	1.57	
			<i>For >250 To 500, Add</i>	0.68	
09 97 13 23-0091	SF		Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	4.12	
			<i>For Up To 100, Add</i>	2.30	
			<i>For >100 To 250, Add</i>	1.11	
			<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0092	SF		Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.06	
			<i>For Up To 100, Add</i>	1.58	
			<i>For >100 To 250, Add</i>	0.77	
			<i>For >250 To 500, Add</i>	0.34	
09 97 13 23-0093	SF		Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.75	
			<i>For Up To 100, Add</i>	1.35	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.29	
09 97 13 23-0094	SF		Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	4.64	
			<i>For Up To 100, Add</i>	2.66	
			<i>For >100 To 250, Add</i>	1.28	
			<i>For >250 To 500, Add</i>	0.56	

09 97 13 23-0095 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>					
09 97 13 23-0096	SF		Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	10.52	
			<i>For Up To 100, Add</i>	6.04	
			<i>For >100 To 250, Add</i>	2.91	
			<i>For >250 To 500, Add</i>	1.27	
09 97 13 23-0097	SF		Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.00	
			<i>For Up To 100, Add</i>	4.34	
			<i>For >100 To 250, Add</i>	2.11	
			<i>For >250 To 500, Add</i>	0.92	
09 97 13 23-0098	SF		Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.71	
			<i>For Up To 100, Add</i>	4.13	
			<i>For >100 To 250, Add</i>	2.01	
			<i>For >250 To 500, Add</i>	0.88	
09 97 13 23-0099	SF		Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	12.19	
			<i>For Up To 100, Add</i>	7.26	
			<i>For >100 To 250, Add</i>	3.48	
			<i>For >250 To 500, Add</i>	1.51	

09 97 13 23-0100 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>					
09 97 13 23-0101	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	5.56	
			<i>For Up To 100, Add</i>	2.95	
			<i>For >100 To 250, Add</i>	1.44	
			<i>For >250 To 500, Add</i>	0.63	
09 97 13 23-0102	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.40	
			<i>For Up To 100, Add</i>	2.09	
			<i>For >100 To 250, Add</i>	1.04	
			<i>For >250 To 500, Add</i>	0.46	
09 97 13 23-0103	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.21	
			<i>For Up To 100, Add</i>	1.95	
			<i>For >100 To 250, Add</i>	0.97	
			<i>For >250 To 500, Add</i>	0.43	
09 97 13 23-0104	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	6.29	
			<i>For Up To 100, Add</i>	3.46	
			<i>For >100 To 250, Add</i>	1.68	
			<i>For >250 To 500, Add</i>	0.73	
09 97 13 23-0105	SF		Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	4.39	
			<i>For Up To 100, Add</i>	2.33	
			<i>For >100 To 250, Add</i>	1.13	
			<i>For >250 To 500, Add</i>	0.50	
09 97 13 23-0106	SF		Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.47	
			<i>For Up To 100, Add</i>	1.65	
			<i>For >100 To 250, Add</i>	0.82	
			<i>For >250 To 500, Add</i>	0.36	



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0107 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.32	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.34	
09 97 13 23-0108 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.97	
For Up To 100, Add	2.73	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.58	
09 97 13 23-0109 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0110 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.68	
For Up To 100, Add	2.82	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.59	
09 97 13 23-0111 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.81	
For Up To 100, Add	2.23	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.47	
09 97 13 23-0112 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.53	
For Up To 100, Add	2.02	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 23-0113 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	5.76	
For Up To 100, Add	3.61	
For >100 To 250, Add	1.72	
For >250 To 500, Add	0.75	
09 97 13 23-0114 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0115 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.49	
For Up To 100, Add	2.85	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.59	
09 97 13 23-0116 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.20	
For Up To 100, Add	1.91	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
09 97 13 23-0117 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.72	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.33	
09 97 13 23-0118 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	5.12	
For Up To 100, Add	3.28	
For >100 To 250, Add	1.56	
For >250 To 500, Add	0.68	
09 97 13 23-0119 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0120 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat	2.43	
For Up To 100, Add	1.28	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0121 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat	1.78	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 23-0122 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat	1.69	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
09 97 13 23-0123 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.56	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 23-0124 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0033)		
Note: Installed over existing primer.		
09 97 13 23-0125 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.73	
For Up To 100, Add	2.16	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
09 97 13 23-0126 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.06	
For Up To 100, Add	1.72	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	

60	09 Finishes
	09 90 Painting and Coating
	09 97 Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0127 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.68	
<i>For Up To 100, Add</i>	1.43	
<i>For >100 To 250, Add</i>	0.70	
<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0128 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	4.33	
<i>For Up To 100, Add</i>	2.59	
<i>For >100 To 250, Add</i>	1.24	
<i>For >250 To 500, Add</i>	0.54	
 09 97 13 24 Steel Water Storage Tank Painting <small>(09 97 13)</small>		
09 97 13 24-0001 Surface Preparation For Tanks <small>(09 97 13 24)</small>		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.79	
<i>For Up To 100, Add</i>	1.34	
<i>For >100 To 250, Add</i>	0.63	
<i>For >250 To 500, Add</i>	0.27	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.59	
<i>For Up To 100, Add</i>	1.19	
<i>For >100 To 250, Add</i>	0.56	
<i>For >250 To 500, Add</i>	0.24	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation	2.25	
<i>For Up To 100, Add</i>	1.69	
<i>For >100 To 250, Add</i>	0.79	
<i>For >250 To 500, Add</i>	0.34	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.99	
<i>For Up To 100, Add</i>	0.69	
<i>For >100 To 250, Add</i>	0.33	
<i>For >250 To 500, Add</i>	0.14	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.80	
<i>For Up To 100, Add</i>	0.56	
<i>For >100 To 250, Add</i>	0.27	
<i>For >250 To 500, Add</i>	0.11	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.40	
<i>For Up To 100, Add</i>	1.01	
<i>For >100 To 250, Add</i>	0.48	
<i>For >250 To 500, Add</i>	0.20	
09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.43	
<i>For Up To 100, Add</i>	1.73	
<i>For >100 To 250, Add</i>	0.81	
<i>For >250 To 500, Add</i>	0.35	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.22	
<i>For Up To 100, Add</i>	1.57	
<i>For >100 To 250, Add</i>	0.74	
<i>For >250 To 500, Add</i>	0.32	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	3.25	
<i>For Up To 100, Add</i>	2.34	
<i>For >100 To 250, Add</i>	1.10	
<i>For >250 To 500, Add</i>	0.47	
09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.40	
<i>For Up To 100, Add</i>	3.14	
<i>For >100 To 250, Add</i>	1.47	
<i>For >250 To 500, Add</i>	0.63	
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.19	
<i>For Up To 100, Add</i>	2.98	
<i>For >100 To 250, Add</i>	1.40	
<i>For >250 To 500, Add</i>	0.60	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation	6.15	
<i>For Up To 100, Add</i>	4.45	
<i>For >100 To 250, Add</i>	2.09	
<i>For >250 To 500, Add</i>	0.90	
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation	3.51	
<i>For Up To 100, Add</i>	2.51	
<i>For >100 To 250, Add</i>	1.18	
<i>For >250 To 500, Add</i>	0.51	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.51	
For Up To 100, Add	2.51	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	5.16	
For Up To 100, Add	3.74	
For >100 To 250, Add	1.75	
For >250 To 500, Add	0.75	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.73	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.59	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat	1.40	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat	1.01	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
09 97 13 24-0028 SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.81	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat	1.98	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.16	
For Up To 100, Add	1.30	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.69	
For Up To 100, Add	0.94	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.97	
For Up To 100, Add	2.65	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.62	
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.27	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.99	
For Up To 100, Add	2.00	
For >100 To 250, Add	0.94	
For >250 To 500, Add	0.41	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.15	
For Up To 100, Add	2.04	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 24-0038 SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.38	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
09 97 13 24-0039 SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	6.07	
For Up To 100, Add	4.23	
For >100 To 250, Add	1.99	
For >250 To 500, Add	0.86	
09 97 13 24-0040 SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.38	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
09 97 13 24-0041 SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.79	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.56	
			For Up To 100, Add	3.17	
			For >100 To 250, Add	1.49	
			For >250 To 500, Add	0.64	
09 97 13 24-0043			Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0044	SF		Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.92	
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 24-0045	SF		Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.64	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.21	
09 97 13 24-0046	SF		Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.11	
			For Up To 100, Add	2.84	
			For >100 To 250, Add	1.34	
			For >250 To 500, Add	0.58	
09 97 13 24-0047	SF		Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.22	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
09 97 13 24-0048	SF		Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.05	
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
09 97 13 24-0049	SF		Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.63	
			For Up To 100, Add	1.82	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
09 97 13 24-0050	SF		Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.65	
			For Up To 100, Add	1.75	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 24-0051	SF		Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.22	
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.29	
09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	6.25	
			For Up To 100, Add	4.54	
			For >100 To 250, Add	2.13	
			For >250 To 500, Add	0.91	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.69	
			For Up To 100, Add	1.12	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.42	
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	4.09	
			For Up To 100, Add	2.92	
			For >100 To 250, Add	1.37	
			For >250 To 500, Add	0.59	
09 97 13 24-0056			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.82	
			For Up To 100, Add	1.46	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
09 97 13 24-0058	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.43	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
09 97 13 24-0059	SF		Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.97	
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 24-0060	SF		Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.70	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
09 97 13 24-0061			2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0062	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.13	
			For Up To 100, Add	1.50	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.33	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.74	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.57	
For Up To 100, Add	1.23	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.26	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats		
For Tanks (09 97 13 24-0022)		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.45	
For Up To 100, Add	3.98	
For >100 To 250, Add	1.94	
For >250 To 500, Add	0.85	
09 97 13 24-0068 SF Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.87	
For Up To 100, Add	3.54	
For >100 To 250, Add	1.73	
For >250 To 500, Add	0.76	
09 97 13 24-0069 SF Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	11.25	
For Up To 100, Add	6.83	
For >100 To 250, Add	3.27	
For >250 To 500, Add	1.42	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.92	
For Up To 100, Add	1.87	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.41	
09 97 13 24-0072 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.51	
For Up To 100, Add	1.56	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.35	
09 97 13 24-0073 SF Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.79	
For Up To 100, Add	3.27	
For >100 To 250, Add	1.58	
For >250 To 500, Add	0.69	
09 97 13 24-0074 SF Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	3.10	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
09 97 13 24-0075 SF Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.76	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
09 97 13 24-0076 SF Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	4.57	
For Up To 100, Add	2.58	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078 SF Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	3.50	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 24-0079 SF Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.92	
For Up To 100, Add	1.58	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.34	
09 97 13 24-0080 SF Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	4.45	
For Up To 100, Add	2.73	
For >100 To 250, Add	1.30	
For >250 To 500, Add	0.57	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082 SF Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.42	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	

09 Finishes

09 90 Painting and Coating

09 97 Special Coatings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 97 13 24-0083	SF Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.23	
	For Up To 100, Add	1.19	
	For >100 To 250, Add	0.58	
	For >250 To 500, Add	0.25	
09 97 13 24-0084	SF Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.65	
	For Up To 100, Add	2.26	
	For >100 To 250, Add	1.08	
	For >250 To 500, Add	0.47	
09 97 13 24-0085	Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		
09 97 13 24-0086	SF Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	5.32	
	For Up To 100, Add	3.09	
	For >100 To 250, Add	1.49	
	For >250 To 500, Add	0.65	
09 97 13 24-0087	SF Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	3.26	
	For Up To 100, Add	1.63	
	For >100 To 250, Add	0.80	
	For >250 To 500, Add	0.35	
09 97 13 24-0088	One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0089	SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.58	
	For Up To 100, Add	0.70	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.16	
09 97 13 24-0090	SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.53	
	For Up To 100, Add	0.66	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.15	
09 97 13 24-0091	SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.43	
	For Up To 100, Add	1.34	
	For >100 To 250, Add	0.65	
	For >250 To 500, Add	0.28	
09 97 13 24-0092	Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
	Note: Installed over existing primer.		
09 97 13 24-0093	SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.55	
	For Up To 100, Add	1.35	
	For >100 To 250, Add	0.66	
	For >250 To 500, Add	0.29	
09 97 13 24-0094	SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.26	
	For Up To 100, Add	1.14	
	For >100 To 250, Add	0.56	
	For >250 To 500, Add	0.25	
09 97 13 24-0095	SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.51	
	For Up To 100, Add	2.07	
	For >100 To 250, Add	1.00	
	For >250 To 500, Add	0.43	
09 97 13 24-0096	One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097	SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	9.15	
	For Up To 100, Add	5.72	
	For >100 To 250, Add	2.73	
	For >250 To 500, Add	1.18	
09 97 26	Cementitious Coatings (09 97)		
09 97 26 13	Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001	Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002	Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003	SF Ceramic-like Glazed Coating, - Cementitious.....	3.08	
09 97 26 13-0004	Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)		
09 97 26 13-0005	SF Ceramic-like Glazed Coating - Resin.....	2.63	
09 97 63	Special Coatings and Protection Systems (09 97)		
09 97 63 00-0001	Acrylic Glazed Coating (09 97 63)		
09 97 63 00-0002	SF Acrylic Glazed Coating.....	2.05	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 09

09	09	Finishes
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	399.63	27.59
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	201.98	

10 14 53 11-0004 Traffic Signs ^(10 14 53 11)

10 14 53 11-0005 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0004)

Note: Excludes posts.

10 14 53 11-0006 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0007	EA	18" x 18" Aluminum Engineer Grade Stop Sign.....	71.40	20.25
		<i>For Hi-Intensity Grade, Add</i>	9.27	
		<i>For Diamond Grade, Add</i>	17.61	
10 14 53 11-0008	EA	18" x 24" Aluminum Engineer Grade Stop Sign.....	83.16	21.42
		<i>For Hi-Intensity Grade, Add</i>	12.12	
		<i>For Diamond Grade, Add</i>	23.03	
10 14 53 11-0009	EA	24" x 24" Aluminum Engineer Grade Stop Sign.....	90.17	22.50
		<i>For Hi-Intensity Grade, Add</i>	18.52	
		<i>For Diamond Grade, Add</i>	29.35	
10 14 53 11-0010	EA	30" x 30" Aluminum Engineer Grade Stop Sign.....	105.09	23.67
		<i>For Hi-Intensity Grade, Add</i>	6.94	
		<i>For Diamond Grade, Add</i>	37.60	
10 14 53 11-0011	EA	36" x 36" Aluminum Engineer Grade Stop Sign.....	142.20	24.75
		<i>For Hi-Intensity Grade, Add</i>	20.39	
		<i>For Diamond Grade, Add</i>	63.96	

10 14 53 11-0012 Steel Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0013	EA	18" x 18" Reflective Steel Stop Sign, Engineering Grade.....	106.03	20.25
10 14 53 11-0014	EA	18" x 24" Reflective Steel Stop Sign, Engineering Grade.....	132.02	21.42
10 14 53 11-0015	EA	24" x 24" Reflective Steel Stop Sign, Engineering Grade.....	140.07	22.50
10 14 53 11-0016	EA	30" x 30" Reflective Steel Stop Sign, Engineering Grade.....	198.47	23.67
10 14 53 11-0017	EA	36" x 36" Reflective Steel Stop Sign, Engineering Grade.....	251.16	24.75

10 14 53 11-0018 Polyethylene Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0019	EA	18" x 18" Reflective Polyethylene Stop Sign, Engineering Grade.....	108.46	20.25
10 14 53 11-0020	EA	18" x 24" Reflective Polyethylene Stop Sign, Engineering Grade.....	138.24	21.42
10 14 53 11-0021	EA	24" x 24" Reflective Polyethylene Stop Sign, Engineering Grade.....	152.31	22.50
10 14 53 11-0022	EA	30" x 30" Reflective Polyethylene Stop Sign, Engineering Grade.....	199.04	23.67

10 14 53 11-0023 Other Reflectorized Traffic Signs ^(10 14 53 11-0005)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0024 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0023)

10 14 53 11-0025	EA	6" x 12" Aluminum Engineer Grade Traffic Sign.....	43.65	18.00
		<i>For Hi-Intensity Grade, Add</i>	2.30	
10 14 53 11-0026	EA	6" x 18" Aluminum Engineer Grade Traffic Sign.....	47.48	18.00
		<i>For Hi-Intensity Grade, Add</i>	3.44	
10 14 53 11-0027	EA	9" x 12" Aluminum Engineer Grade Traffic Sign.....	47.48	18.00
		<i>For Hi-Intensity Grade, Add</i>	3.44	
10 14 53 11-0028	EA	9" x 15" Aluminum Engineer Grade Traffic Sign.....	50.35	18.00
		<i>For Hi-Intensity Grade, Add</i>	4.31	
10 14 53 11-0029	EA	9" x 18" Aluminum Engineer Grade Traffic Sign.....	53.22	18.00
		<i>For Hi-Intensity Grade, Add</i>	5.17	
10 14 53 11-0030	EA	9" x 24" Aluminum Engineer Grade Traffic Sign.....	61.21	19.13
		<i>For Hi-Intensity Grade, Add</i>	6.89	
10 14 53 11-0031	EA	9" x 48" Aluminum Engineer Grade Traffic Sign.....	84.18	19.13
		<i>For Hi-Intensity Grade, Add</i>	13.78	
10 14 53 11-0032	EA	12" x 12" Aluminum Engineer Grade Traffic Sign.....	51.31	18.00
		<i>For Hi-Intensity Grade, Add</i>	4.59	
10 14 53 11-0033	EA	12" x 18" Aluminum Engineer Grade Traffic Sign.....	61.21	19.13
		<i>For Hi-Intensity Grade, Add</i>	6.89	
10 14 53 11-0034	EA	12" x 24" Aluminum Engineer Grade Traffic Sign.....	68.87	19.13
		<i>For Hi-Intensity Grade, Add</i>	9.19	

10 Specialties
10 10 Information Specialties
10 14 Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0035	EA		12" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	76.52 11.48	19.13
10 14 53 11-0036	EA		12" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	84.18 13.78	19.13
10 14 53 11-0037	EA		18" x 18" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	72.69 10.33	19.13
10 14 53 11-0038	EA		18" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	84.18 13.78	19.13
10 14 53 11-0039	EA		18" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	97.91 17.22	20.25
10 14 53 11-0040	EA		18" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	109.39 20.67	20.25
10 14 53 11-0041	EA		18" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	141.35 27.56	24.75
10 14 53 11-0042	EA		18" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	152.83 31.00	24.75
10 14 53 11-0043	EA		24" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	101.73 18.37	20.25
10 14 53 11-0044	EA		24" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	117.04 22.96	20.25
10 14 53 11-0045	EA		24" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	132.35 27.56	20.25
10 14 53 11-0046	EA		24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	156.66 32.15	24.75
10 14 53 11-0047	EA		24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	171.97 36.74	24.75
10 14 53 11-0048	EA		24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	187.28 41.33	24.75
10 14 53 11-0049	EA		24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	202.58 45.92	24.75
10 14 53 11-0050	EA		30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	136.18 28.70	20.25
10 14 53 11-0051	EA		30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	164.31 34.44	24.75
10 14 53 11-0052	EA		30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	183.45 40.19	24.75
10 14 53 11-0053	EA		30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	211.59 45.92	29.25
10 14 53 11-0054	EA		30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	258.86 57.41	33.75
10 14 53 11-0055	EA		36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	187.28 41.33	24.75
10 14 53 11-0056	EA		36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	219.25 48.22	29.25
10 14 53 11-0057	EA		36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	251.20 55.11	33.75
10 14 53 11-0058	EA		36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	274.16 62.00	33.75
10 14 53 11-0059	EA		36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	306.13 68.89	38.25
10 14 53 11-0060	EA		36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	364.89 83.81	42.75
10 14 53 11-0061	EA		36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	384.03 89.56	42.75
10 14 53 11-0062	EA		36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	512.34 124.00	49.50
10 14 53 11-0063	EA		42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	255.03 56.26	33.75
10 14 53 11-0064	EA		48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	321.44 73.48	38.25
10 14 53 11-0065	EA		48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	361.06 82.67	42.75
10 14 53 11-0066	EA		48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	391.68 91.85	42.75
10 14 53 11-0067	EA		48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	435.80 101.04	49.50
10 14 53 11-0068	EA		48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	466.41 110.22	49.50
10 14 53 11-0069	EA		48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	536.65 128.59	54.00
10 14 53 11-0070	EA		48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	597.88 146.96	54.00
10 14 53 11-0071	EA		48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	628.50 156.15	54.00
10 14 53 11-0072	EA		48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	663.62 165.33	56.25
10 14 53 11-0073	EA		60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	567.26 137.78	54.00
10 14 53 11-0074	EA		72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	1,246.21 330.66	72.01
10 14 53 11-0075	EA		78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	908.55 238.81	56.25



	Specialties	10
	Information Specialties	10 10
	Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 14 53 11-0076	Polyethylene Engineer Grade Traffic Signs (10 14 53 11-0023)		
10 14 53 11-0077	EA 6" x 12" Reflective Polyethylene Traffic Sign	76.23	16.92
10 14 53 11-0078	EA 12" x 12" Reflective Polyethylene Traffic Sign	86.69	18.00
10 14 53 11-0079	EA 12" x 18" Reflective Polyethylene Traffic Sign	92.82	19.17
10 14 53 11-0080	EA 18" x 18" Reflective Polyethylene Traffic Sign	112.06	20.25
10 14 53 11-0081	EA 18" x 24" Reflective Polyethylene Traffic Sign	138.24	21.42
10 14 53 11-0082	EA 24" x 24" Reflective Polyethylene Traffic Sign	155.45	21.42

10 14 53 11-0083	Non-Reflectorized Traffic Signs (10 14 53 11-0004)		
Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.			

10 14 53 11-0084	Steel Non-Reflectorized Traffic Signs (10 14 53 11-0083)		
10 14 53 11-0085	EA 6" x 12" Steel Non-Reflectorized Traffic Sign	42.62	18.00
10 14 53 11-0086	EA 6" x 18" Steel Non-Reflectorized Traffic Sign	45.93	18.00
10 14 53 11-0087	EA 9" x 12" Steel Non-Reflectorized Traffic Sign	45.93	18.00
10 14 53 11-0088	EA 9" x 15" Steel Non-Reflectorized Traffic Sign	48.41	18.00
10 14 53 11-0089	EA 9" x 18" Steel Non-Reflectorized Traffic Sign	50.89	18.00
10 14 53 11-0090	EA 9" x 24" Steel Non-Reflectorized Traffic Sign	58.10	19.13
10 14 53 11-0091	EA 9" x 48" Steel Non-Reflectorized Traffic Sign	77.95	19.13
10 14 53 11-0092	EA 12" x 12" Steel Non-Reflectorized Traffic Sign	49.23	18.00
10 14 53 11-0093	EA 12" x 18" Steel Non-Reflectorized Traffic Sign	58.10	19.13
10 14 53 11-0094	EA 12" x 24" Steel Non-Reflectorized Traffic Sign	64.72	19.13
10 14 53 11-0095	EA 12" x 30" Steel Non-Reflectorized Traffic Sign	71.34	19.13
10 14 53 11-0096	EA 12" x 36" Steel Non-Reflectorized Traffic Sign	77.95	19.13
10 14 53 11-0097	EA 18" x 18" Steel Non-Reflectorized Traffic Sign	68.03	19.13
10 14 53 11-0098	EA 18" x 24" Steel Non-Reflectorized Traffic Sign	77.95	19.13
10 14 53 11-0099	EA 18" x 30" Steel Non-Reflectorized Traffic Sign	90.13	20.25
10 14 53 11-0100	EA 18" x 36" Steel Non-Reflectorized Traffic Sign	100.05	20.25
10 14 53 11-0101	EA 18" x 48" Steel Non-Reflectorized Traffic Sign	128.90	24.75
10 14 53 11-0102	EA 18" x 54" Steel Non-Reflectorized Traffic Sign	138.83	24.75
10 14 53 11-0103	EA 24" x 24" Steel Non-Reflectorized Traffic Sign	93.44	20.25
10 14 53 11-0104	EA 24" x 30" Steel Non-Reflectorized Traffic Sign	106.67	20.25
10 14 53 11-0105	EA 24" x 36" Steel Non-Reflectorized Traffic Sign	119.90	20.25
10 14 53 11-0106	EA 24" x 42" Steel Non-Reflectorized Traffic Sign	142.14	24.75
10 14 53 11-0107	EA 24" x 48" Steel Non-Reflectorized Traffic Sign	155.37	24.75
10 14 53 11-0108	EA 24" x 54" Steel Non-Reflectorized Traffic Sign	168.61	24.75
10 14 53 11-0109	EA 24" x 60" Steel Non-Reflectorized Traffic Sign	181.84	24.75
10 14 53 11-0110	EA 30" x 30" Steel Non-Reflectorized Traffic Sign	123.21	20.25
10 14 53 11-0111	EA 30" x 36" Steel Non-Reflectorized Traffic Sign	148.76	24.75
10 14 53 11-0112	EA 30" x 42" Steel Non-Reflectorized Traffic Sign	165.30	24.75
10 14 53 11-0113	EA 30" x 48" Steel Non-Reflectorized Traffic Sign	190.85	29.25
10 14 53 11-0114	EA 30" x 60" Steel Non-Reflectorized Traffic Sign	232.93	33.75
10 14 53 11-0115	EA 36" x 36" Steel Non-Reflectorized Traffic Sign	168.61	24.75
10 14 53 11-0116	EA 36" x 42" Steel Non-Reflectorized Traffic Sign	197.47	29.25
10 14 53 11-0117	EA 36" x 48" Steel Non-Reflectorized Traffic Sign	226.31	33.75
10 14 53 11-0118	EA 36" x 54" Steel Non-Reflectorized Traffic Sign	246.16	33.75
10 14 53 11-0119	EA 36" x 60" Steel Non-Reflectorized Traffic Sign	275.01	38.25
10 14 53 11-0120	EA 36" x 73" Steel Non-Reflectorized Traffic Sign	327.03	42.75
10 14 53 11-0121	EA 36" x 78" Steel Non-Reflectorized Traffic Sign	343.58	42.75
10 14 53 11-0122	EA 36" x 108" Steel Non-Reflectorized Traffic Sign	456.33	49.50
10 14 53 11-0123	EA 42" x 42" Steel Non-Reflectorized Traffic Sign	229.62	33.75
10 14 53 11-0124	EA 48" x 48" Steel Non-Reflectorized Traffic Sign	288.25	38.25
10 14 53 11-0125	EA 48" x 54" Steel Non-Reflectorized Traffic Sign	323.72	42.75
10 14 53 11-0126	EA 48" x 60" Steel Non-Reflectorized Traffic Sign	350.19	42.75
10 14 53 11-0127	EA 48" x 66" Steel Non-Reflectorized Traffic Sign	390.16	49.50
10 14 53 11-0128	EA 48" x 72" Steel Non-Reflectorized Traffic Sign	416.63	49.50
10 14 53 11-0129	EA 48" x 84" Steel Non-Reflectorized Traffic Sign	478.57	54.00
10 14 53 11-0130	EA 48" x 96" Steel Non-Reflectorized Traffic Sign	531.50	54.00
10 14 53 11-0131	EA 48" x 102" Steel Non-Reflectorized Traffic Sign	557.97	54.00
10 14 53 11-0132	EA 48" x 108" Steel Non-Reflectorized Traffic Sign	588.94	56.25
10 14 53 11-0133	EA 60" x 72" Steel Non-Reflectorized Traffic Sign	505.03	54.00
10 14 53 11-0134	EA 72" x 144" Steel Non-Reflectorized Traffic Sign	1,096.86	72.01
10 14 53 11-0135	EA 78" x 96" Steel Non-Reflectorized Traffic Sign	800.69	56.25

10 14 53 11-0136	Aluminum Non-Reflectorized Traffic Signs (10 14 53 11-0083)		
10 14 53 11-0137	EA 6" x 12" Aluminum Non-Reflectorized Traffic Sign	42.89	18.00
10 14 53 11-0138	EA 6" x 18" Aluminum Non-Reflectorized Traffic Sign	46.33	18.00
10 14 53 11-0139	EA 9" x 12" Aluminum Non-Reflectorized Traffic Sign	46.33	18.00
10 14 53 11-0140	EA 9" x 15" Aluminum Non-Reflectorized Traffic Sign	48.91	18.00
10 14 53 11-0141	EA 9" x 18" Aluminum Non-Reflectorized Traffic Sign	51.50	18.00
10 14 53 11-0142	EA 9" x 24" Aluminum Non-Reflectorized Traffic Sign	58.91	19.13
10 14 53 11-0143	EA 9" x 48" Aluminum Non-Reflectorized Traffic Sign	79.57	19.13
10 14 53 11-0144	EA 12" x 12" Aluminum Non-Reflectorized Traffic Sign	49.77	18.00
10 14 53 11-0145	EA 12" x 18" Aluminum Non-Reflectorized Traffic Sign	58.91	19.13
10 14 53 11-0146	EA 12" x 24" Aluminum Non-Reflectorized Traffic Sign	65.80	19.13
10 14 53 11-0147	EA 12" x 30" Aluminum Non-Reflectorized Traffic Sign	72.68	19.13
10 14 53 11-0148	EA 12" x 36" Aluminum Non-Reflectorized Traffic Sign	79.57	19.13
10 14 53 11-0149	EA 18" x 18" Aluminum Non-Reflectorized Traffic Sign	69.24	19.13

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0150	EA		18" x 24" Aluminum Non-Reflectorized Traffic Sign.....	79.57	19.13
10 14 53 11-0151	EA		18" x 30" Aluminum Non-Reflectorized Traffic Sign.....	92.15	20.25
10 14 53 11-0152	EA		18" x 36" Aluminum Non-Reflectorized Traffic Sign.....	102.48	20.25
10 14 53 11-0153	EA		18" x 48" Aluminum Non-Reflectorized Traffic Sign.....	132.14	24.75
10 14 53 11-0154	EA		18" x 54" Aluminum Non-Reflectorized Traffic Sign.....	142.47	24.75
10 14 53 11-0155	EA		24" x 24" Aluminum Non-Reflectorized Traffic Sign.....	95.59	20.25
10 14 53 11-0156	EA		24" x 30" Aluminum Non-Reflectorized Traffic Sign.....	109.37	20.25
10 14 53 11-0157	EA		24" x 36" Aluminum Non-Reflectorized Traffic Sign.....	123.14	20.25
10 14 53 11-0158	EA		24" x 42" Aluminum Non-Reflectorized Traffic Sign.....	145.91	24.75
10 14 53 11-0159	EA		24" x 48" Aluminum Non-Reflectorized Traffic Sign.....	159.69	24.75
10 14 53 11-0160	EA		24" x 54" Aluminum Non-Reflectorized Traffic Sign.....	173.46	24.75
10 14 53 11-0161	EA		24" x 60" Aluminum Non-Reflectorized Traffic Sign.....	187.23	24.75
10 14 53 11-0162	EA		30" x 30" Aluminum Non-Reflectorized Traffic Sign.....	126.58	20.25
10 14 53 11-0163	EA		30" x 36" Aluminum Non-Reflectorized Traffic Sign.....	152.80	24.75
10 14 53 11-0164	EA		30" x 42" Aluminum Non-Reflectorized Traffic Sign.....	170.02	24.75
10 14 53 11-0165	EA		30" x 48" Aluminum Non-Reflectorized Traffic Sign.....	196.24	29.25
10 14 53 11-0166	EA		30" x 60" Aluminum Non-Reflectorized Traffic Sign.....	239.67	33.75
10 14 53 11-0167	EA		36" x 36" Aluminum Non-Reflectorized Traffic Sign.....	173.46	24.75
10 14 53 11-0168	EA		36" x 42" Aluminum Non-Reflectorized Traffic Sign.....	203.13	29.25
10 14 53 11-0169	EA		36" x 48" Aluminum Non-Reflectorized Traffic Sign.....	232.78	33.75
10 14 53 11-0170	EA		36" x 54" Aluminum Non-Reflectorized Traffic Sign.....	253.44	33.75
10 14 53 11-0171	EA		36" x 60" Aluminum Non-Reflectorized Traffic Sign.....	283.10	38.25
10 14 53 11-0172	EA		36" x 73" Aluminum Non-Reflectorized Traffic Sign.....	336.88	42.75
10 14 53 11-0173	EA		36" x 78" Aluminum Non-Reflectorized Traffic Sign.....	354.09	42.75
10 14 53 11-0174	EA		36" x 108" Aluminum Non-Reflectorized Traffic Sign.....	470.89	49.50
10 14 53 11-0175	EA		42" x 42" Aluminum Non-Reflectorized Traffic Sign.....	236.23	33.75
10 14 53 11-0176	EA		48" x 48" Aluminum Non-Reflectorized Traffic Sign.....	296.88	38.25
10 14 53 11-0177	EA		48" x 54" Aluminum Non-Reflectorized Traffic Sign.....	333.43	42.75
10 14 53 11-0178	EA		48" x 60" Aluminum Non-Reflectorized Traffic Sign.....	360.98	42.75
10 14 53 11-0179	EA		48" x 66" Aluminum Non-Reflectorized Traffic Sign.....	402.03	49.50
10 14 53 11-0180	EA		48" x 72" Aluminum Non-Reflectorized Traffic Sign.....	429.57	49.50
10 14 53 11-0181	EA		48" x 84" Aluminum Non-Reflectorized Traffic Sign.....	493.67	54.00
10 14 53 11-0182	EA		48" x 96" Aluminum Non-Reflectorized Traffic Sign.....	548.76	54.00
10 14 53 11-0183	EA		48" x 102" Aluminum Non-Reflectorized Traffic Sign.....	576.31	54.00
10 14 53 11-0184	EA		48" x 108" Aluminum Non-Reflectorized Traffic Sign.....	608.36	56.25
10 14 53 11-0185	EA		60" x 72" Aluminum Non-Reflectorized Traffic Sign.....	521.21	54.00
10 14 53 11-0186	EA		72" x 144" Aluminum Non-Reflectorized Traffic Sign.....	1,135.69	72.01
10 14 53 11-0187	EA		78" x 96" Aluminum Non-Reflectorized Traffic Sign.....	828.73	56.25
10 14 53 11-0188			Polyethylene Non-Reflectorized Traffic Signs (10 14 53 11-0083)		
10 14 53 11-0189	EA		6" x 12" Non-Reflective Polyethylene Traffic Sign.....	64.25	16.92
10 14 53 11-0190	EA		12" x 12" Non-Reflective Polyethylene Traffic Sign.....	70.27	18.00
10 14 53 11-0191	EA		12" x 18" Non-Reflective Polyethylene Traffic Sign.....	75.69	19.17
10 14 53 11-0192	EA		18" x 18" Non-Reflective Polyethylene Traffic Sign.....	99.82	20.25
10 14 53 11-0193	EA		18" x 24" Non-Reflective Polyethylene Traffic Sign.....	106.98	21.42
10 14 53 11-0194	EA		24" x 24" Non-Reflective Polyethylene Traffic Sign.....	124.22	22.50
10 14 53 11-0195			Signs For Overhead Sign Structures (10 14 53 11-0004)		
			Note: Including horizontal Z-bars.		
10 14 53 11-0196	SF		From 30 To 360 SF Signs For Overhead Sign Structures.....	25.00	
			For Over 10' High, Add.....	13.00	
10 14 53 11-0197	VLF		Vertical Sign Hangers For Overhead Sign Structures, Per Hanger.....	32.50	
			Note: Includes U-bolts, vertical aluminum Z-bars, clip angles and stainless steel hardware.		
10 14 53 11-0198			Flashing Beacon (10 14 53 11-0004)		
10 14 53 11-0199	EA		Flashing Beacon Assembly.....	1,340.86	196.39
10 14 53 11-0200			Aluminum Street Signs (10 14 53 11-0004)		
			Note: Excludes posts.		
10 14 53 11-0201			Aluminum Engineer Grade Street Signs (10 14 53 11-0200)		
10 14 53 11-0202	EA		6" High, Aluminum Engineer Grade Street Sign.....	81.30	9.00
10 14 53 11-0203	EA		8" High, Aluminum Engineer Grade Street Sign.....	92.47	9.00
10 14 53 11-0204	EA		9" High, Aluminum Engineer Grade Street Sign.....	100.79	9.00
10 14 53 11-0205			Street Sign Accessories (10 14 53 11-0200)		
10 14 53 11-0206	EA		Single Bracket And Post Cap For Street Sign.....	24.23	4.50
10 14 53 11-0207	EA		Double Bracket And Post Cap For Street Sign.....	24.23	4.50
10 14 53 11-0208			Sign Posts (10 14 53 11-0004)		
			Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0209			U-Channel Sign Posts (10 14 53 11-0208)		
			Note: Excludes digging and concrete.		
10 14 53 11-0210			Baked Enamel U-Channel Sign Posts (10 14 53 11-0209)		



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0211	EA		3' To 4' Baked Enamel U-Channel Sign Post Base	63.20	18.40
10 14 53 11-0212	EA		6' Baked Enamel U-Channel Sign Post	83.14	22.99
10 14 53 11-0213	EA		7' Baked Enamel U-Channel Sign Post	99.24	27.59
10 14 53 11-0214	EA		8' Baked Enamel U-Channel Sign Post	116.21	32.19
10 14 53 11-0215	EA		10' Baked Enamel U-Channel Sign Post	140.20	39.08
10 14 53 11-0216	EA		12' Baked Enamel U-Channel Sign Post	144.43	39.08
10 14 53 11-0217			Galvanized Steel U-Channel Sign Posts <small>(10 14 53 11-0209)</small>		
10 14 53 11-0218	EA		3' To 4' Galvanized Steel U-Channel Sign Post Base.....	68.64	18.40
10 14 53 11-0219	EA		6' Galvanized Steel U-Channel Sign Post.....	91.78	22.99
10 14 53 11-0220	EA		7' Galvanized Steel U-Channel Sign Post.....	118.79	27.59
10 14 53 11-0221	EA		8' Galvanized Steel U-Channel Sign Post.....	137.82	32.19
10 14 53 11-0222	EA		10' Galvanized Steel U-Channel Sign Post.....	155.93	39.08
10 14 53 11-0223	EA		12' Galvanized Steel U-Channel Sign Post.....	158.12	39.08
10 14 53 11-0224			Fiberglass Or Composite Plastic U-Channel Sign Posts <small>(10 14 53 11-0209)</small>		
10 14 53 11-0225	EA		3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	61.92	18.40
10 14 53 11-0226	EA		6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	80.35	22.99
10 14 53 11-0227	EA		7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	95.87	27.59
10 14 53 11-0228	EA		8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	112.19	32.19
10 14 53 11-0229	EA		10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	132.91	39.08
10 14 53 11-0230	EA		12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	140.11	39.08
10 14 53 11-0231			Tubular Sign Posts <small>(10 14 53 11-0208)</small>		
			Note: Excludes digging and concrete.		
10 14 53 11-0232			2-3/8" Diameter, Galvanized Steel Tubular Sign Post <small>(10 14 53 11-0231)</small>		
10 14 53 11-0233	EA		6", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	92.68	22.99
10 14 53 11-0234	EA		7", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	109.92	27.59
10 14 53 11-0235	EA		8", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	129.90	32.19
10 14 53 11-0236	EA		10", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	167.75	39.08
10 14 53 11-0237	EA		12", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	182.59	39.08
10 14 53 11-0238			Square Sign Posts <small>(10 14 53 11-0208)</small>		
			Note: Excludes digging and concrete.		
10 14 53 11-0239			Galvanized Steel Square Sign Posts <small>(10 14 53 11-0238)</small>		
10 14 53 11-0240	EA		3' To 4' Galvanized Steel Square Sign Post Base	69.85	18.40
10 14 53 11-0241	EA		6' Galvanized Steel Square Sign Post	112.25	22.99
10 14 53 11-0242	EA		7' Galvanized Steel Square Sign Post	131.53	27.59
10 14 53 11-0243	EA		8' Galvanized Steel Square Sign Post	163.41	32.19
10 14 53 11-0244	EA		10' Galvanized Steel Square Sign Post	187.37	39.08
10 14 53 11-0245	EA		12' Galvanized Steel Square Sign Post	197.73	39.08
10 14 53 11-0246			Other Sign Posts And Bases <small>(10 14 53 11-0004)</small>		
			Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0247			2.5 LB/FT Breakaway Sign Posts And Base Posts <small>(10 14 53 11-0246)</small>		
10 14 53 11-0248			Base Posts, 2.5 LB/LF, For Breakaway Sign Posts <small>(10 14 53 11-0247)</small>		
10 14 53 11-0249	EA		Base Post for 2.5 LB/LF Breakaway Sign Post.....	94.54	22.50
10 14 53 11-0250	EA		Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	58.54	18.00
10 14 53 11-0251			Breakaway Sign Posts, 2.5 LB/LF <small>(10 14 53 11-0247)</small>		
10 14 53 11-0252	LF		2.5 LB/LF Breakaway Sign Post	12.25	2.25
10 14 53 11-0253			4 LB/FT Breakaway Sign Posts And Base Posts <small>(10 14 53 11-0246)</small>		
10 14 53 11-0254			Base Posts, 4 LB/LF, For Breakaway Sign Posts <small>(10 14 53 11-0253)</small>		
10 14 53 11-0255	EA		Base Post For 4 LB/LF Breakaway Sign Post	99.04	27.00
10 14 53 11-0256	EA		Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	58.54	18.00
10 14 53 11-0257			Breakaway Sign Posts, 4 LB/LF <small>(10 14 53 11-0253)</small>		
10 14 53 11-0258	LF		4 LB/LF Breakaway Sign Post	15.04	2.25
10 14 53 11-0259			Driven Sign Posts <small>(10 14 53 11-0246)</small>		
10 14 53 11-0260			Driven Posts, 2.5 LB/LF <small>(10 14 53 11-0259)</small>		
10 14 53 11-0261	LF		2.5 LB/LF Driven Post.....	13.15	3.15
10 14 53 11-0262			Driven Posts, 4 LB/LF <small>(10 14 53 11-0259)</small>		

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0263 LF 4 LB/LF Driven Post.....	16.39	3.60
10 14 53 11-0264 Omni-Directional Breakaway System For Sign Posts And Light Poles <small>(10 14 53 11-0246)</small>		
10 14 53 11-0265 Omni-Directional Breakaway Systems For Signs <small>(10 14 53 11-0264)</small>		
Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0266 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,427.45	
10 14 53 11-0267 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,520.93	
10 14 53 11-0268 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	1,042.73	
10 14 53 11-0269 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	913.28	
10 14 53 11-0270 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	1,035.54	
10 14 53 11-0271 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	985.19	
10 14 53 11-0272 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	1,067.89	
10 14 53 11-0273 Omni-Directional Breakaway Systems For Poles <small>(10 14 53 11-0264)</small>		
Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0274 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	481.22	
10 14 53 11-0275 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	504.51	
10 14 53 11-0276 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	523.92	
10 14 53 11-0277 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	795.58	
10 14 53 11-0278 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	69.85	
10 14 53 11-0279 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	93.14	
10 14 53 11-0280 Wood Posts <small>(10 14 53 11-0246)</small>		
Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0281 LF 4" x 4" Pressure Treated Wood Sign Post.....	10.77	
10 14 53 11-0282 Sign Post Accessories <small>(10 14 53 11-0004)</small>		
10 14 53 11-0283 Sign Post Brackets <small>(10 14 53 11-0282)</small>		
10 14 53 11-0284 EA 2-3/8" Outside Diameter, Single Side Sign Bracket Set.....	48.14	6.75
Note: Includes 2 single side sign post brackets		
10 14 53 11-0285 EA 2-3/8" Outside Diameter, Double Side Sign Bracket Set.....	64.13	11.25
Note: Includes 2 double side sign post brackets		
10 14 53 11-0286 EA 4" To 12" Diameter, Buckle Bracket Set.....	58.12	9.00
Note: Includes 2 stainless steel straps, 2 brackets and fastener hardware		
10 14 53 11-0287 Sign Post Caps <small>(10 14 53 11-0282)</small>		
10 14 53 11-0288 EA 2-3/8" Diameter, Galvanized, Flat Traffic Sign Post Cap (EC-2).....	21.92	4.50
10 14 53 11-0289 Sign Post Replacement Bolts <small>(10 14 53 11-0282)</small>		
10 14 53 11-0290 EA Signage Fasteners Replacement.....	15.19	
Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers		
10 14 53 11-0291 Reflective Panels For "U" Channel Post <small>(10 14 53 11-0282)</small>		
10 14 53 11-0292 EA 3" x 72" Reflective Panel For "U-Channel" Post.....	64.41	
Note: Diamond grade panel including mounting hardware.		
10 14 53 11-0293 Removal Of Signs <small>(10 14 53 11)</small>		
Note: Includes structural supports.		
10 14 53 11-0294 EA >4 To 10 SF Sign Area, Sign Removal.....	180.00	
10 14 53 11-0295 EA >10 To 20 SF Sign Area, Sign Removal.....	432.02	
10 14 53 11-0296 EA >20 To 40 SF Sign Area, Sign Removal.....	648.03	
10 14 53 11-0297 EA >40 To 100 SF Sign Area, Sign Removal.....	1,079.65	
10 14 53 11-0298 Removal And Reinstallation Of Signs <small>(10 14 53 11)</small>		
Note: Includes structural supports.		
10 14 53 11-0299 EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	274.77	
10 14 53 11-0300 EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	651.42	
10 14 53 11-0301 EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	974.93	
10 14 53 11-0302 EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,622.14	
10 14 53 11-0303 EA Removal And Reinstallation Of Street Sign On Post.....	103.50	
10 14 53 11-0304 EA Removal And Relocation Of Traffic Light.....	378.86	
Note: Excludes electrical hookup.		

10 80 Other Specialties (10)



Specialties	10	10
Other Specialties	10 80	
Pest Control Devices	10 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 81 Pest Control Devices (10 80)

10 81 13 Bird Control Devices (10 81)

10 81 13 00-0001 Stainless Steel Spiked Bird Barrier (10 81 13)

Note: Stainless steel spikes with flexible polycarbonate base.

10 81 13 00-0002	LF	2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	10.65	1.02
10 81 13 00-0003	LF	4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	12.85	1.02
10 81 13 00-0004	LF	8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	18.96	1.02

10 81 13 00-0005 Polycarbonate Spiked Bird Barrier (10 81 13)

Note: Polycarbonate spikes and base.

10 81 13 00-0006	LF	3" Wide Polycarbonate Spikes And Base Bird Deterrent System	9.83	1.02
10 81 13 00-0007	LF	5" Wide Polycarbonate Spikes And Base Bird Deterrent System	11.91	1.02
10 81 13 00-0008	LF	8" Wide Polycarbonate Spikes And Base Bird Deterrent System	14.21	1.02

10 81 13 00-0009 Spiked Gutter Or Girder Bird Barrier (10 81 13)

Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.

10 81 13 00-0010	LF	Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	11.30	1.02
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10 81 13 00-0011 Coil Bird Barrier (10 81 13)

Note: Stainless steel coil.

10 81 13 00-0012	LF	4" Diameter Stainless Steel Coil Bird Deterrent System	7.95	1.02
10 81 13 00-0013	LF	5" Diameter Stainless Steel Coil Bird Deterrent System	9.41	1.02

10 81 13 00-0014 Spider Bird Barrier (10 81 13)

Note: Stainless steel arms with various bases.

10 81 13 00-0015	EA	2' Diameter Stainless Steel Spider Bird Deterrent System	138.91	1.02
10 81 13 00-0016	EA	4' Diameter Stainless Steel Spider Bird Deterrent System	204.70	1.02
10 81 13 00-0017	EA	8' Diameter Stainless Steel Spider Bird Deterrent System	258.00	1.02

10 81 13 00-0018 Oriented Flexible Flame-resistant Netting (10 81 13)

Note: Includes stainless steel rings and plastic ties.

10 81 13 00-0019	SF	1/8" x 1/8" Mesh Flexible Polypropylene Netting	1.11	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0020	SF	1/4" x 1/4" Mesh Flexible Polypropylene Netting	1.06	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0021	SF	1/2" x 1/2" Mesh Flexible Polypropylene Netting	1.01	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0022	SF	3/4" x 3/4" Mesh Flexible Polypropylene Netting	0.97	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0023	SF	1" x 1" Mesh Flexible Polypropylene Netting	0.97	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0024	SF	1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.95	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0025	SF	2" x 2" Mesh Flexible Polypropylene Netting	0.92	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0026	SF	3" x 3" Mesh Flexible Polypropylene Netting	0.92	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.88	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	0.99	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting	0.93	0.36
		Note: To control bird and marine predators.		
10 81 13 00-0030	EA	Poly Clips For Flexible Netting	3.15	

10 81 13 00-0031 Netting Accessories (10 81 13)

10 81 13 00-0032	EA	2' Zipper For Flexible Netting	9.13	
10 81 13 00-0033	EA	4' Zipper For Flexible Netting	13.75	
10 81 13 00-0034	EA	6' Zipper For Flexible Netting	16.18	
10 81 13 00-0035	EA	8' Zipper For Flexible Netting	22.99	

10 81 16 Insect Control Devices (10 81)

10 81 16 00-0001 Insect Screening (10 81 16)

10 81 16 00-0002	CSF	17/14 Mesh Insect Screening With Flat Screen Splines	139.37	
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10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 10



Equipment	11	
Entertainment and Recreation Equipment	11 60	⇩
Play Field Equipment and Structures	11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment and Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

11 68 13 00-0001	EA	Standalone Playground Equipment ^(11 68 13)		
11 68 13 00-0002	EA	Ground Socket For Movable Posts ^(11 68 13 00-0001)		
11 68 13 00-0003	PR	Ground Socket For 2-3/8" Post For Playground Equipment	307.69	61.22
11 68 13 00-0004	PR	Ground Socket For 3-1/2" Post For Playground Equipment	484.61	61.22
11 68 13 00-0005	EA	See-Saws ^(11 68 13 00-0001)		
11 68 13 00-0006	EA	Steel See-Saw ^(11 68 13 00-0005)		
11 68 13 00-0007	EA	2 Unit Steel See-Saw	2,643.98	376.74
11 68 13 00-0008	EA	4 Unit Steel See-Saw	4,343.85	445.22
11 68 13 00-0009	EA	6 Unit Steel See-Saw	6,050.16	544.17
11 68 13 00-0010	EA	14' Long Laminated Beam ^(11 68 13 00-0005)		
11 68 13 00-0011	EA	Beam Is Supported By Two 12 In x 12 In Stepping Column Posts	2,870.12	333.12
11 68 13 00-0012	EA	Beam Is Supported By Two 8 In x 8 In Posts	1,971.06	296.75
11 68 13 00-0013	EA	Slides ^(11 68 13 00-0001)		
11 68 13 00-0014	EA	8' Long x 4' High Slide With Stainless Steel Bed	3,178.16	430.80
11 68 13 00-0015	EA	12' Long x 6' High Slide With Stainless Steel Bed	4,443.76	612.19
11 68 13 00-0016	EA	16' Long x 8' High Slide With Stainless Steel Bed	4,920.87	680.21
11 68 13 00-0017	EA	20' Long x 10' High Slide With Stainless Steel Bed	6,214.14	753.49
11 68 13 00-0018	EA	6' High, 360 Degree One Piece Molded Polyethylene Slide	22,837.72	1,185.29
11 68 13 00-0019	EA	7' High, 360 Degree Slide, Stainless Steel Bed	19,895.46	1,222.75
11 68 13 00-0020	EA	9' High, 360 Degree Slide, Stainless Steel Bed	25,106.55	1,285.15
11 68 13 00-0021	EA	Whirlers ^(11 68 13 00-0001)		
11 68 13 00-0022	EA	8' Diameter Whirler	7,190.50	816.25
11 68 13 00-0023	EA	10' Diameter Whirler	8,338.64	979.51
11 68 13 00-0024	EA	Other Standalone Playground Equipment ^(11 68 13 00-0001)		
11 68 13 00-0025	EA	Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)		
11 68 13 00-0026	EA	Horizontal Ladder	2,319.02	218.12
11 68 13 00-0027	EA	Tether Ball Post	389.75	42.63
11 68 13 00-0028	PR	10'-6" Long Multiple Purpose Post	591.08	75.37
11 68 13 00-0029	EA	3-Person Fiberglass Golf Tee Shelter Turntable	10,084.24	212.95
11 68 13 00-0030	EA	Horizontal Turning Bars, 1 Bar	729.55	113.82
11 68 13 00-0031	EA	Horizontal Turning Bars, 2 Bars	991.25	136.04
11 68 13 00-0032	EA	Horizontal Turning Bars, 3 Bars	1,337.13	181.39
11 68 13 00-0033	EA	Horizontal Turning Bars, 5 Bars	1,960.33	249.41
11 68 13 00-0034	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole	2,103.26	103.85
11 68 13 00-0035	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole	2,316.36	112.10
11 68 13 00-0036	EA	Coil Spring With Single Riding Aluminum Saddle Devices	2,263.16	120.17
11 68 13 00-0037	EA	"C" Spring With Single Riding Aluminum Saddle Devices	2,276.05	103.39
11 68 13 00-0038	EA	Rubber Spring With Single Riding Aluminum Saddle Devices	2,800.38	135.40
11 68 13 00-0039	EA	Coil Spring Assembly Only	569.71	49.79
11 68 13 00-0040	EA	"C" Spring Assembly Only	378.52	33.20
11 68 13 00-0041	EA	Rubber Spring Assembly Only	242.37	64.75
11 68 13 00-0042	EA	Footbuck Assembly Only	98.35	8.71
11 68 13 00-0043	EA	Two Seat, Two Spring Action Cars (4'-8" x 2'-8")	2,576.28	124.53
11 68 13 00-0044	EA	Freestanding Panels ^(11 68 13 00-0024)		
Note: Rotomolded polyethylene.				
11 68 13 00-0045	EA	Tic-Tac-Toe Panel	1,096.91	53.33
11 68 13 00-0046	EA	24" Bubble Panel	1,643.24	79.90
11 68 13 00-0047	EA	Fire Engine Panel	2,411.49	117.27
11 68 13 00-0048	EA	Flat Mirror Panel	1,929.22	93.86
11 68 13 00-0049	EA	Wavy Mirror Panel	2,855.39	138.94
11 68 13 00-0050	EA	Paint Time Panel	1,852.37	90.15
11 68 13 00-0051	EA	Phone Time Panel	1,314.58	63.94
11 68 13 00-0052	EA	Phone Time With Graphic Panel	1,314.58	63.94
11 68 13 00-0053	EA	Race Time Panel	2,304.79	112.10
11 68 13 00-0054	EA	Rescue 911 Panel	2,339.47	112.10

11 Equipment
11 60 Entertainment and Recreation Equipment
11 68 Play Field Equipment and Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055	EA		Eastern/Central/Western States Panel	1,259.10	61.22
11 68 13 00-0056	EA		Career People Panel.....	1,429.82	69.56
11 68 13 00-0057	EA		Solar System Panel	1,429.82	69.56
11 68 13 00-0058	EA		Animals Panel.....	1,429.82	69.56
11 68 13 00-0059			Freestanding Panels Uprights <small>(11 68 13 00-0024)</small>		
11 68 13 00-0060	EA		3-1/2" Outside Diameter End Panel Upright.....	337.19	29.93
11 68 13 00-0061	EA		3-1/2" Outside Diameter 90 Degree Upright	365.30	32.38
11 68 13 00-0062	EA		3-1/2" Outside Diameter 180 Degree Upright	365.30	32.38
11 68 13 00-0063	EA		3-1/2" Outside Diameter "T-Shaped" Upright.....	388.71	34.47
11 68 13 00-0064			Coasters <small>(11 68 13 00-0024)</small>		
11 68 13 00-0065	EA		12' Single Metal Coaster With Four Posts	8,497.20	362.77
11 68 13 00-0066	EA		18' Single Metal Coaster With Four Posts	9,490.56	453.47
11 68 13 00-0067	EA		12' Double Metal Coaster With Four Posts	13,755.10	544.16
11 68 13 00-0068	EA		18' Double Metal Coaster With Four Posts.....	15,628.18	680.20
11 68 13 00-0069			Climbers <small>(11 68 13 00-0024)</small>		
11 68 13 00-0070	EA		Tower Climber, 3.17' Diameter x 7.25' High.....	1,516.08	242.33
11 68 13 00-0071	EA		Arch Climber, 2' x 12' x 4.5' High	1,376.22	296.75
11 68 13 00-0072	EA		Arch Climber, 2' x 15' x 5.83' High	1,499.85	242.33
11 68 13 00-0073	EA		Arch Climber, 2' x 17' x 6.58' High	1,616.93	296.75
11 68 13 00-0074	EA		Rainbow Climber, 2' x 10'-5" x 4' High	1,736.46	242.06
11 68 13 00-0075	EA		Rainbow Climber, 2' x 10'-5" x 5' High	1,953.18	242.15
11 68 13 00-0076	EA		Rainbow Climber, 2' x 12'-5" x 6' High	2,285.27	242.15
11 68 13 00-0077	EA		Rainbow Climber, 2' x 15'-4" x 7' High	2,502.35	242.06
11 68 13 00-0078	EA		Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	3,021.28	283.42
11 68 13 00-0079	EA		12' Long Horizontal Ladder Climber.....	2,464.75	211.59
11 68 13 00-0080	EA		14' Long Horizontal Ladder Climber.....	2,501.28	211.59
11 68 13 00-0081	EA		16' Long Horizontal Ladder Climber.....	2,743.14	211.59
11 68 13 00-0082	EA		Bell Climber, 7'-5" High With Double Bars	2,562.44	272.08
11 68 13 00-0083	EA		2-Way Climber.....	2,146.75	218.12
11 68 13 00-0084	EA		4-Way Climber.....	3,459.67	218.12
11 68 13 00-0085			Swings <small>(11 68 13 00-0001)</small>		
11 68 13 00-0086			Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087	EA		8' High Top Rail, One Section Two Seats.....	1,991.67	333.12
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	233.09	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	269.18	
11 68 13 00-0088	EA		8' High Top Rail, Two Sections Four Seats	3,187.70	476.69
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	374.65	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	438.80	
11 68 13 00-0089	EA		8' High Top Rail, Three Sections, Six Seats	4,407.98	701.43
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	517.58	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	604.33	
11 68 13 00-0090	EA		8' High Top Rail, Four Sections, Eight Seats	5,530.31	816.25
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	650.47	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	763.69	
11 68 13 00-0091	EA		10' High Top Rail, One Section Two Seats.....	2,131.57	333.12
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	250.57	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	293.67	
11 68 13 00-0092	EA		10' High Top Rail, Two Section Four Seats	3,323.97	507.71
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	389.42	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	451.30	
11 68 13 00-0093	EA		10' High Top Rail, Three Sections, Six Seats	4,580.31	788.41
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	534.98	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	613.77	
11 68 13 00-0094	EA		10' High Top Rail, Four Sections, Eight Seats	6,081.17	952.30
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	712.51	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	826.04	
11 68 13 00-0095			Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096	EA		8' High Top Rail, One Section, Two Seats.....	2,303.03	294.22
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	273.17	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	329.47	
11 68 13 00-0097	EA		8' High Top Rail, Two Sections, Four Seats	3,342.74	426.90
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	396.50	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	478.26	
11 68 13 00-0098	EA		8' High Top Rail, Three Sections, Six Seats	4,459.18	570.93
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	528.85	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	637.63	
11 68 13 00-0099	EA		8' High Top Rail, Four Sections, Eight Seats	5,582.83	680.21
			<i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i>	663.84	
			<i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	806.92	



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment and Structures	11 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100 EA 10' High Top Rail, One Section, Two Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,597.27 308.08 371.63	331.58
11 68 13 00-0101 EA 10' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,716.53 322.82 391.65	351.63
11 68 13 00-0102 EA 10' High Top Rail, Two Sections, Four Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,625.46 429.97 518.40	464.18
11 68 13 00-0103 EA 10' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,377.54 521.70 638.61	535.10
11 68 13 00-0104 EA 10' High Top Rail, Three Section, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,826.04 572.38 690.16	617.54
11 68 13 00-0105 EA 10' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	6,039.41 720.91 886.82	680.48
11 68 13 00-0106 EA 10' High Top Rail, Four Section, Eight Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	6,110.29 722.96 865.19	816.25
11 68 13 00-0107 EA 12' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,843.57 338.29 411.83	360.15
11 68 13 00-0108 EA 12' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,627.87 550.88 671.86	579.45
11 68 13 00-0109 EA 12' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	6,707.41 793.08 947.06	928.08
11 68 13 00-0110 Swing Accessories <small>(11 68 13 00-0085)</small>		
11 68 13 00-0111 EA Enclosed Tot Seat With Chain And Hardware.....	694.16	27.25
11 68 13 00-0112 EA Bucket Seat With Chain And Hardware.....	577.08	22.67
11 68 13 00-0113 EA Belt Seat With Chain And Hardware.....	614.71	24.19
11 68 13 00-0114 EA Seat With Chain And Hardware.....	606.35	23.83
11 68 13 00-0115 EA Wide Seat With Chain And Hardware.....	640.04	25.19
11 68 13 00-0116 EA Handi Seat With Chain And Hardware.....	1,911.03	75.11
11 68 13 00-0117 LF 0.4 LB/LF Replacement Chain.....	7.89	0.54
11 68 13 00-0118 LF 1 LB/LF Replacement Chain.....	14.66	1.08
11 68 13 00-0119 EA Swing Hanger Replacement.....	85.70	6.20
11 68 23 Exterior Court Athletic Equipment <small>(11 68)</small>		
11 68 23 13 Exterior Basketball Equipment <small>(11 68 23)</small>		
11 68 23 13-0001 Basketball Systems <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002 EA 4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616).....	2,427.18	262.63
11 68 23 13-0003 EA 5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230).....	4,338.73	288.90
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0004 EA 4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230).....	2,792.48	262.63
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0005 EA 5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230).....	4,338.73	288.90
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0006 EA Back To Back 6" Galvanized Steel Pole With 5' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 195582).....	7,789.30	424.85
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-498.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	700.00	
11 68 23 13-0007 Basketball Components <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0008 EA Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120).....	33.21	9.07
11 68 23 13-0009 EA Chain Basketball Net (Porter Athletic 00161-000).....	59.76	9.07
11 68 23 13-0010 EA Heavy Duty Goal Ring (Porter Athletic 00235-000).....	137.06	45.34
11 68 23 13-0011 EA Goal Ring For Steel Net (Porter Athletic 00251-H00).....	250.23	20.40
11 68 23 13-0012 EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000).....	1,455.81	38.55
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0013 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300).....	1,872.05	38.55
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0014 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300).....	952.46	34.01
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0015 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000).....	1,042.27	34.01
Note: Includes perimeter and target markings. Excludes pole and goal.		

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment and Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**11 68 23 33 Tennis Equipment** (11 68 23)**11 68 23 33-0001 Tennis Court Net Posts** (11 68 23 33)

11 68 23 33-0002	PR	Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	1,134.16	154.18
11 68 23 33-0003	PR	Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,444.07	154.18
11 68 23 33-0004	PR	Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,495.72	154.18
11 68 23 33-0005	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,585.04	154.18
11 68 23 33-0006	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,903.07	154.18
11 68 23 33-0007	PR	Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts	282.11	
11 68 23 33-0008	PR	Galvanized Steel Ground Sleeves For Tennis Court Net Posts	320.72	

11 68 23 33-0009 Tennis Court Nets (11 68 23 33)

11 68 23 33-0010	EA	42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	616.08	152.37
11 68 23 33-0011	EA	42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	677.71	152.37
11 68 23 33-0012	EA	42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	1,472.91	234.45
11 68 23 33-0013	EA	Galvanized Steel Anchor For Tennis Court Net Center Strap	79.42	

11 68 33 Athletic Field Equipment (11 68)**11 68 33 13 Football Field Equipment** (11 68 33)**11 68 33 13-0001 Football Goal Posts** (11 68 33 13)

Note: Includes augering for post(s), set in concrete and backfill.

11 68 33 13-0002	PR	Double Steel Football Goal Posts, "H Shape"	5,691.51	408.12
11 68 33 13-0003	PR	Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights	8,267.62	629.87
11 68 33 13-0004	PR	Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights	9,871.73	755.85

11 68 33 23 Soccer and Field Hockey Equipment (11 68 33)**11 68 33 23-0001 Soccer Goal Posts** (11 68 33 23)

Note: Includes augering for post(s), set in concrete and backfill.

11 68 33 23-0002	PR	Regulation Soccer Goal Posts	4,880.05	272.08
11 68 33 23-0003	PR	Combination Football/Soccer Goal Post	5,862.98	408.12

11 68 33 33 Baseball Field Equipment (11 68 33)**11 68 33 33-0001 Bases** (11 68 33 33)

11 68 33 33-0002	SET	Bases For Baseball Or Softball	594.61	
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11 80 Facility Maintenance and Operation Equipment (11)**11 82 Facility Solid Waste Handling Equipment** (11 80)**11 82 19 Packaged Incinerators** (11 82)**11 82 19 00-0001 Electric Incinerator** (11 82 19)

11 82 19 00-0002	EA	Electric Package Incinerator, 100 LB/Hour	46,918.76	1,093.04
11 82 19 00-0003	EA	Electric Package Incinerator, 400 LB/Hour	96,019.35	2,186.08
11 82 19 00-0004	EA	Electric Package Incinerator, 1,000 LB/Hour	326,042.39	3,279.12

11 82 26 Facility Waste Compactors (11 82)**11 82 26 00-0001 Waste Compactors** (11 82 26)**11 82 26 00-0002 110 Volt Compactors** (11 82 26 00-0001)

11 82 26 00-0003	EA	Waste Compactor, 110 Volt At 75 LB/Hour	25,550.34	577.13
11 82 26 00-0004	EA	Waste Compactor, 110 Volt At 250 LB/Hour	31,861.98	1,385.12

11 82 26 00-0005 230 Volt Compactors (11 82 26 00-0001)

11 82 26 00-0006	EA	Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	31,578.63	1,846.82
11 82 26 00-0007	EA	Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	35,441.98	2,423.95

END OF SECTION 11



Special Construction	13	13
Integrated Construction	13 40	
Facility Protection	13 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	EA	Anodes ^(13 47 13 13)		
13 47 13 13-0002	EA	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	401.51	176.27
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	595.21	254.77
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	811.22	327.76
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	1,154.55	458.58
13 47 13 13-0007	EA	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	601.15	248.39
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	934.88	346.85
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	701.48	217.06
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	1,073.02	289.78
13 47 13 13-0012	EA	High Silicon Cast Iron Type ^(13 47 13 13-0001)		
13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB	2,116.38	346.85
13 47 13 13-0014	EA	Metal Oxide Type ^(13 47 13 13-0001)		
13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB	1,067.73	176.27
		Note: Includes center connected #8 HMWPE/HALAR Lead wire.		
13 47 13 13-0016	EA	Rectifiers ^(13 47 13 13)		
13 47 13 13-0017	EA	Air Cooled, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,125.07	352.64
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,302.21	352.64
13 47 13 13-0020	EA	Oil Immersed, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	3,218.27	407.74
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	3,408.06	407.74
13 47 13 13-0023	EA	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0024	EA	Anode Backfill, Coke Breeze	1.17	0.45
13 47 13 13-0025	EA	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8	2,306.31	868.23
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6	2,558.91	868.23
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4	2,937.81	868.23
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2	3,569.31	868.23
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1	4,435.85	956.63
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0	4,909.48	956.63
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0	5,698.86	956.63
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0	7,764.90	1,042.78
13 47 13 13-0034	EA	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0035	EA	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)		
13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	307.78	101.63
13 47 13 13 16	EA	Cathodic Protection for Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		

13	13 Special Construction
	13 40 Integrated Construction
	13 47 Facility Protection



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 13



	Special Construction	13	13
	Integrated Construction	13 40	
	Facility Protection	13 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13

13 Special Construction

13 40 Integrated Construction

13 47 Facility Protection



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001	Gate Valves ^(22 05 23)		
22 05 23 00-0002	Class 125 Brazed Or Soldered Bronze Gate Valves ^(22 05 23 00-0001)		
	Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)		
22 05 23 00-0003	EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	96.16	12.37
	For 150 LB Rating, Add	6.02	
	For 200 LB Rating, Add	9.02	
	For Work In Restricted Working Space, Add	10.80	
22 05 23 00-0004	EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	98.05	12.37
	For 150 LB Rating, Add	6.02	
	For 200 LB Rating, Add	9.02	
	For Work In Restricted Working Space, Add	11.37	
22 05 23 00-0005	EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	100.38	12.37
	For 150 LB Rating, Add	6.05	
	For 200 LB Rating, Add	9.08	
	For Work In Restricted Working Space, Add	11.96	
22 05 23 00-0006	EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	118.79	13.60
	For 150 LB Rating, Add	6.50	
	For 200 LB Rating, Add	9.75	
	For Work In Restricted Working Space, Add	16.13	
22 05 23 00-0007	EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	144.74	15.46
	For 150 LB Rating, Add	7.97	
	For 200 LB Rating, Add	11.95	
	For Work In Restricted Working Space, Add	19.53	
22 05 23 00-0008	EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	212.48	16.45
	For 150 LB Rating, Add	13.01	
	For 200 LB Rating, Add	19.51	
	For Work In Restricted Working Space, Add	24.73	
22 05 23 00-0009	EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	236.45	19.04
	For 150 LB Rating, Add	14.13	
	For 200 LB Rating, Add	21.20	
	For Work In Restricted Working Space, Add	28.53	
22 05 23 00-0010	EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	283.65	22.51
	For 150 LB Rating, Add	17.12	
	For 200 LB Rating, Add	25.69	
	For Work In Restricted Working Space, Add	33.72	
22 05 23 00-0011	EA 2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	648.56	30.41
	For 150 LB Rating, Add	49.67	
	For 200 LB Rating, Add	74.51	
	For Work In Restricted Working Space, Add	45.56	
	For Chain Operated Type, Add	223.52	
22 05 23 00-0012	EA 3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	761.33	35.30
	For 150 LB Rating, Add	58.61	
	For 200 LB Rating, Add	87.92	
	For Work In Restricted Working Space, Add	52.56	
22 05 23 00-0013	Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves ^(22 05 23 00-0001)		
	Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)		
22 05 23 00-0014	EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	116.20	12.37
	For 150 LB Rating, Add	8.02	
	For 200 LB Rating, Add	12.03	
	For Work In Restricted Working Space, Add	10.80	
22 05 23 00-0015	EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	117.92	12.37
	For 150 LB Rating, Add	8.00	
	For 200 LB Rating, Add	12.00	
	For Work In Restricted Working Space, Add	11.37	
22 05 23 00-0016	EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	137.42	12.37
	For 150 LB Rating, Add	9.75	
	For 200 LB Rating, Add	14.63	
	For Work In Restricted Working Space, Add	11.96	
22 05 23 00-0017	EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	155.83	13.60
	For 150 LB Rating, Add	10.21	
	For 200 LB Rating, Add	15.31	
	For Work In Restricted Working Space, Add	16.13	
22 05 23 00-0018	EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	187.00	15.46
	For 150 LB Rating, Add	12.19	
	For 200 LB Rating, Add	18.29	
	For Work In Restricted Working Space, Add	19.53	
22 05 23 00-0019	EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	270.28	16.45
	For 150 LB Rating, Add	18.79	
	For 200 LB Rating, Add	28.18	
	For Work In Restricted Working Space, Add	24.73	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0020	EA		1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve.....	309.15	19.04
			<i>For 150 LB Rating, Add</i>	21.40	
			<i>For 200 LB Rating, Add</i>	32.11	
			<i>For Work In Restricted Working Space, Add</i>	28.53	
22 05 23 00-0021	EA		2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve.....	395.98	22.51
			<i>For 150 LB Rating, Add</i>	28.36	
			<i>For 200 LB Rating, Add</i>	42.54	
			<i>For Work In Restricted Working Space, Add</i>	33.72	
22 05 23 00-0022			200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves (22 05 23 00-0001)		
			Note: 200 psi cold working pressure.		
22 05 23 00-0023	EA		1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	133.73	12.37
			<i>For Work In Restricted Working Space, Add</i>	8.35	
22 05 23 00-0024	EA		3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	150.60	13.60
			<i>For Work In Restricted Working Space, Add</i>	9.50	
22 05 23 00-0025	EA		1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	198.01	15.46
			<i>For Work In Restricted Working Space, Add</i>	11.36	
22 05 23 00-0026	EA		1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	270.21	16.45
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 05 23 00-0027	EA		1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	313.29	19.04
			<i>For Work In Restricted Working Space, Add</i>	13.91	
22 05 23 00-0028	EA		2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve.....	431.41	22.51
			<i>For Work In Restricted Working Space, Add</i>	16.69	
22 05 23 00-0029			Ball Valves (22 05 23)		
22 05 23 00-0030			Crimped Bronze, Ball Valves (22 05 23 00-0029)		
22 05 23 00-0031			Crimped Bronze, 250 PSI, Ball Valves (22 05 23 00-0030)		
			Note: Nibco®		
22 05 23 00-0032	EA		1/2" Crimped Bronze, 250 PSI, Ball Valve.....	91.79	12.37
			<i>For Work In Restricted Working Space, Add</i>	8.35	
22 05 23 00-0033	EA		3/4" Crimped Bronze, 250 PSI, Ball Valve.....	118.85	13.60
			<i>For Work In Restricted Working Space, Add</i>	9.50	
22 05 23 00-0034	EA		1" Crimped Bronze, 250 PSI, Ball Valve.....	152.60	15.46
			<i>For Work In Restricted Working Space, Add</i>	11.36	
22 05 23 00-0035	EA		1-1/4" Crimped Bronze, 250 PSI, Ball Valve.....	246.95	16.45
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 05 23 00-0036	EA		1-1/2" Crimped Bronze, 250 PSI, Ball Valve.....	326.58	19.04
			<i>For Work In Restricted Working Space, Add</i>	13.91	
22 05 23 00-0037	EA		2" Crimped Bronze, 250 PSI, Ball Valve.....	492.49	22.51
			<i>For Work In Restricted Working Space, Add</i>	16.69	
22 05 23 00-0038			Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0039	EA		1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	56.05	12.37
			<i>For Work In Restricted Working Space, Add</i>	8.35	
22 05 23 00-0040	EA		3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	71.36	13.60
			<i>For Work In Restricted Working Space, Add</i>	9.50	
22 05 23 00-0041	EA		1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	86.70	15.46
			<i>For Work In Restricted Working Space, Add</i>	11.36	
22 05 23 00-0042	EA		1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	121.10	16.45
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 05 23 00-0043	EA		1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	156.26	19.04
			<i>For Work In Restricted Working Space, Add</i>	13.91	
22 05 23 00-0044	EA		2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve.....	231.16	22.51
			<i>For Work In Restricted Working Space, Add</i>	16.69	
22 05 23 00-0045			Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0046	EA		1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	64.45	12.37
			<i>For Work In Restricted Working Space, Add</i>	8.35	
22 05 23 00-0047	EA		3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	77.47	13.60
			<i>For Work In Restricted Working Space, Add</i>	9.50	
22 05 23 00-0048	EA		1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	96.47	15.46
			<i>For Work In Restricted Working Space, Add</i>	11.36	
22 05 23 00-0049	EA		1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	151.62	16.45
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 05 23 00-0050	EA		1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	221.89	19.04
			<i>For Work In Restricted Working Space, Add</i>	13.91	
22 05 23 00-0051	EA		2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve.....	307.47	22.51
			<i>For Work In Restricted Working Space, Add</i>	16.69	
22 05 23 00-0052			Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0053	EA		1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve.....	62.16	12.37
			<i>For Work In Restricted Working Space, Add</i>	8.35	
22 05 23 00-0054	EA		3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve.....	75.33	13.60
			<i>For Work In Restricted Working Space, Add</i>	9.50	
22 05 23 00-0055	EA		1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve.....	91.58	15.46
			<i>For Work In Restricted Working Space, Add</i>	11.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0056 Check Valves <small>(22 05 23)</small>		
22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves <small>(22 05 23 00-0056)</small>		
Note: Nibco®		
22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	175.64	12.37
For Work In Restricted Working Space, Add	8.35	
22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	223.64	13.60
For Work In Restricted Working Space, Add	9.50	
22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	309.24	15.46
For Work In Restricted Working Space, Add	11.36	
22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	412.39	16.45
For Work In Restricted Working Space, Add	12.52	
22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	492.05	19.04
For Work In Restricted Working Space, Add	13.91	
22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	704.31	22.51
For Work In Restricted Working Space, Add	16.69	
22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves <small>(22 05 23 00-0056)</small>		
22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	49.61	12.37
For Work In Restricted Working Space, Add	8.35	
22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	59.57	13.60
For Work In Restricted Working Space, Add	9.50	
22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....	70.00	15.46
For Work In Restricted Working Space, Add	11.36	
22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	88.20	16.45
For Work In Restricted Working Space, Add	12.52	
22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	112.35	19.04
For Work In Restricted Working Space, Add	13.91	
22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	175.71	22.51
For Work In Restricted Working Space, Add	16.69	
22 05 23 00-0071 Butterfly Valves <small>(22 05 23)</small>		
22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve <small>(22 05 23 00-0071)</small>		
22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,313.99	33.02
For Work In Restricted Working Space, Add	19.47	
22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,422.44	38.33
For Work In Restricted Working Space, Add	23.18	
22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,778.12	43.28
For Work In Restricted Working Space, Add	30.60	
22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valves <small>(22 05 23)</small>		
22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves <small>(22 05 23 00-0076)</small>		
22 05 23 00-0078 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	168.13	13.60
22 05 23 00-0079 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	190.99	15.46
22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves <small>(22 05 23 00-0076)</small>		
22 05 23 00-0081 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	224.07	16.45
22 05 23 00-0082 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	299.70	19.04
22 05 23 00-0083 60 PSI Threaded Earthquake Gas Shutoff Valves <small>(22 05 23 00-0076)</small>		
22 05 23 00-0084 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	205.90	13.60
22 05 23 00-0085 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	217.22	15.46
22 05 23 00-0086 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	245.06	16.45
22 05 23 00-0087 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	331.18	19.04
22 05 23 00-0088 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	741.93	22.51
22 05 23 00-0089 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	885.73	30.29
22 05 23 00-0090 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,145.72	35.30
22 05 23 00-0091 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,327.20	39.86
22 05 23 00-0092 60 PSI Flanged Earthquake Gas Shutoff Valves <small>(22 05 23 00-0076)</small>		
22 05 23 00-0093 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,045.45	164.83
22 05 23 00-0094 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,286.26	193.61
22 05 23 00-0095 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,823.16	324.58
22 05 23 00-0096 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,950.05	386.16
22 05 23 00-0097 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,852.43	493.43
22 05 23 00-0098 Regulators, Clay Valve <small>(22 05 23)</small>		
22 05 23 00-0099 EA 4" Regulator - Clay Valve.....	3,095.73	
22 05 23 00-0100 EA 8" Regulator - Clay Valve.....	4,209.64	
22 05 23 00-0101 EA 10" Regulator - Clay Valve.....	5,749.33	
22 05 23 00-0102 EA 12" Regulator - Clay Valve.....	6,985.92	

22 Plumbing
22 05 Common Work Results for Plumbing
22 05 23 General-Duty Valves for Plumbing Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 05 23 00-0103	EA		18" Regulator - Clay Valve.....	12,199.83	
22 05 23 00-0104	EA		24" Regulator - Clay Valve.....	19,716.11	

22 05 76 Facility Drainage Piping Cleanouts (22 05)

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover (22 05 76)
 Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)

22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	710.70	65.78
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	768.09	82.47
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0005	EA		4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	959.05	99.67
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0006	EA		5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,376.14	111.53
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0007	EA		6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,693.75	120.81
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	

22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)

22 05 76 00-0009	EA		2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	818.97	65.78
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0010	EA		3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	878.08	82.47
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0011	EA		4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,069.04	99.67
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0012	EA		5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,486.13	111.53
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0013	EA		6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,803.74	120.81
			<i>For Vandal Proof, Add</i>	19.50	
			<i>For Galvanized Ferrule, Add</i>	45.00	
			<i>For Carpet Marker, Add</i>	16.00	
			<i>For Carpet Flange, Add</i>	58.50	
			<i>For Wide Flange, Add</i>	97.00	
			<i>For Satin Bronze Top, Deduct</i>	-24.00	

22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<p style="margin-left: 40px;">Note: Cover and screw only.</p> <p>22 05 76 00-0015 Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small></p> <p style="margin-left: 40px;">Note: Cover and screw only.</p>		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	106.53	20.65
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	114.78	24.73
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	146.72	27.82
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	249.15	30.92
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	375.64	34.01
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
<p>22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small></p> <p style="margin-left: 40px;">Note: Cover and screw only.</p>		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....	565.13	20.65
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....	814.59	21.64
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover.....	870.42	22.88
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover.....	973.63	25.97
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
<p>22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small></p> <p style="margin-left: 40px;">Note: Cover and screw only.</p>		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel.....	575.15	20.65
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel.....	829.34	21.64
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel.....	886.20	22.88
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel.....	991.26	25.97
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
<p>22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated <small>(22 05 76 00-0014)</small></p> <p style="margin-left: 40px;">Note: Cover and screw only.</p>		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	557.85	20.65
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	772.49	21.64
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	1,096.31	22.88
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	1,327.44	25.97
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
<p>22 05 76 00-0036 Cast Iron Cleanout Tee <small>(22 05 76)</small></p> <p>22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover <small>(22 05 76 00-0036)</small></p> <p style="margin-left: 40px;">Note: Satin smooth secured cover.</p>		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	516.06	65.78
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	589.39	82.35
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	769.84	99.67
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	1,843.38	120.81
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Galvanized Cast Iron Parts, Add</i>	88.80	

22 Plumbing
22 05 Common Work Results for Plumbing
 22 05 76 Facility Drainage Piping Cleanouts



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover <small>(22 05 76 00-0036)</small>					
Note: Satin smooth secured cover.					
22 05 76 00-0043	EA		2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	900.58	65.78
			<i>For Vandal Proof Screws, Add</i>	19.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0044	EA		3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	973.92	82.35
			<i>For Vandal Proof Screws, Add</i>	19.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0045	EA		4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	1,128.85	99.67
			<i>For Vandal Proof Screws, Add</i>	19.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	88.80	
22 05 76 00-0046	EA		6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	2,362.76	120.81
			<i>For Vandal Proof Screws, Add</i>	19.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	88.80	

22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug <small>(22 05 76 00-0036)</small>					
22 05 76 00-0048	EA		2" Cleanout Tee With Cast Bronze Screw Plug.....	422.95	53.79
22 05 76 00-0049	EA		3" Cleanout Tee With Cast Bronze Screw Plug.....	472.95	58.73
22 05 76 00-0050	EA		4" Cleanout Tee With Cast Bronze Screw Plug.....	630.37	77.28
22 05 76 00-0051	EA		5" Cleanout Tee With Cast Bronze Screw Plug.....	948.66	91.50
22 05 76 00-0052	EA		6" Cleanout Tee With Cast Bronze Screw Plug.....	1,620.08	108.20

22 05 76 00-0053 Removable Cleanout Plug <small>(22 05 76)</small>					
22 05 76 00-0054 Threaded Bronze Plugs <small>(22 05 76 00-0053)</small>					
22 05 76 00-0055	EA		1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	82.50	15.46
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0056	EA		2-1/2" Threaded Bronze Plug.....	99.01	16.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0057	EA		3" Threaded Bronze Plug.....	170.52	18.55
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0058	EA		3-1/2" Threaded Bronze Plug.....	190.76	21.64
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0059	EA		4" Threaded Bronze Plug.....	215.66	24.73
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0060	EA		5" Threaded Bronze Plug.....	303.74	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0061	EA		6" Threaded Bronze Plug.....	447.96	30.92
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0062	EA		8" Threaded Bronze Plug.....	758.18	34.01
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0063	EA		10" Threaded Bronze Plug.....	1,091.89	37.10
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	

22 05 76 00-0064 Threaded Brass Plugs <small>(22 05 76 00-0053)</small>					
22 05 76 00-0065	EA		1-1/2" Threaded Brass Plug, Raised Head.....	34.38	15.46
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0066	EA		2" Threaded Brass Plug, Raised Head.....	34.99	15.46
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0067	EA		2-1/2" Threaded Brass Plug, Raised Head.....	38.15	16.81
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0068	EA		3" Threaded Brass Plug, Raised Head.....	43.17	18.55
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0069	EA		3-1/2" Threaded Brass Plug, Raised Head.....	50.98	21.64
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0070	EA		4" Threaded Brass Plug, Raised Head.....	59.90	24.73
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0071	EA		4-1/2" Threaded Brass Plug, Raised Head.....	64.33	26.04
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0072	EA		5" Threaded Brass Plug, Raised Head.....	69.14	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0073	EA		6" Threaded Brass Plug, Raised Head.....	89.95	30.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0074	EA		1-1/2" Threaded Brass Plug, Countersunk Head.....	33.91	15.46
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0075	EA		2" Threaded Brass Plug, Countersunk Head.....	34.58	15.46
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0076	EA		2-1/2" Threaded Brass Plug, Countersunk Head.....	39.46	16.81
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0077	EA		3" Threaded Brass Plug, Countersunk Head.....	43.36	18.55
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0078	EA		3-1/2" Threaded Brass Plug, Countersunk Head.....	50.42	21.64
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0079	EA		4" Threaded Brass Plug, Countersunk Head.....	59.01	24.73
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0080	EA		5" Threaded Brass Plug, Countersunk Head.....	68.66	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	82.10 9.50	30.92
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22 07 Plumbing Insulation ⁽²²⁾

22 07 19 Plumbing Piping Insulation ^(22 07)

22 07 19 00-0001 Insulation Protective Jacketing ^(22 07 19) <i>Note: Jacketing only and to be added to insulation prices when required.</i>		
22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands ^(22 07 19 00-0001)		
22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands ^(22 07 19 00-0002)		
22 07 19 00-0004 SF 0.006" Aluminum Insulation Jacket With Bands.....	18.69	7.92
22 07 19 00-0005 SF 0.016" Aluminum Insulation Jacket With Bands.....	19.36	7.92

22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands ^(22 07 19 00-0002)

22 07 19 00-0007 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing	9.73	2.25
<i>For Stucco Embossed, Add</i>	0.01	
<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0008 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing	10.16	2.30
<i>For Stucco Embossed, Add</i>	0.01	
<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0009 LF 1" ID, 0.016" Aluminum Insulation Jacketing	10.58	2.35
<i>For Stucco Embossed, Add</i>	0.01	
<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing	11.03	2.41
<i>For Stucco Embossed, Add</i>	0.01	
<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing	11.39	2.45
<i>For Stucco Embossed, Add</i>	0.02	
<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing	11.76	2.48
<i>For Stucco Embossed, Add</i>	0.02	
<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0013 LF 2" ID, 0.016" Aluminum Insulation Jacketing	12.18	2.53
<i>For Stucco Embossed, Add</i>	0.02	
<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing	12.61	2.59
<i>For Stucco Embossed, Add</i>	0.02	
<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing	13.07	2.65
<i>For Stucco Embossed, Add</i>	0.02	
<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing	13.46	2.69
<i>For Stucco Embossed, Add</i>	0.03	
<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0017 LF 3" ID, 0.016" Aluminum Insulation Jacketing	13.95	2.75
<i>For Stucco Embossed, Add</i>	0.03	
<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing	14.42	2.81
<i>For Stucco Embossed, Add</i>	0.03	
<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing	14.89	2.88
<i>For Stucco Embossed, Add</i>	0.03	
<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing	15.31	2.93
<i>For Stucco Embossed, Add</i>	0.04	
<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0021 LF 4" ID, 0.016" Aluminum Insulation Jacketing	15.82	3.00
<i>For Stucco Embossed, Add</i>	0.04	
<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing	16.33	3.07
<i>For Stucco Embossed, Add</i>	0.04	
<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing	16.88	3.15
<i>For Stucco Embossed, Add</i>	0.04	
<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing	17.35	3.21
<i>For Stucco Embossed, Add</i>	0.05	
<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0025 LF 5" ID, 0.016" Aluminum Insulation Jacketing	17.91	3.30
<i>For Stucco Embossed, Add</i>	0.05	
<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing	18.48	3.39
<i>For Stucco Embossed, Add</i>	0.05	
<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing	18.99	3.46
<i>For Stucco Embossed, Add</i>	0.05	
<i>For Corrugated, Add</i>	0.13	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0028	LF		5-3/4" ID, 0.016" Aluminum Insulation Jacketing	19.63	3.56
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0029	LF		6" ID, 0.016" Aluminum Insulation Jacketing	20.27	3.67
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0030	LF		6-1/4" ID, 0.016" Aluminum Insulation Jacketing	20.70	3.72
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0031	LF		6-1/2" ID, 0.016" Aluminum Insulation Jacketing	21.15	3.78
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0032	LF		7" ID, 0.016" Aluminum Insulation Jacketing	21.91	3.87
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0033	LF		7-1/4" ID, 0.016" Aluminum Insulation Jacketing	22.49	3.96
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0034	LF		7-1/2" ID, 0.016" Aluminum Insulation Jacketing	22.96	4.02
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0035	LF		8" ID, 0.016" Aluminum Insulation Jacketing	23.68	4.09
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0036	LF		8-1/2" ID, 0.016" Aluminum Insulation Jacketing	24.38	4.16
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0037	LF		9" ID, 0.016" Aluminum Insulation Jacketing	25.24	4.26
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0038	LF		9-1/2" ID, 0.016" Aluminum Insulation Jacketing	26.00	4.34
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0039	LF		10" ID, 0.016" Aluminum Insulation Jacketing	26.74	4.41
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0040	LF		10-1/2" ID, 0.016" Aluminum Insulation Jacketing	27.50	4.49
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0041	LF		11" ID, 0.0106 Aluminum Insulation Jacketing	28.44	4.62
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0042	LF		11-1/2" ID, 0.016" Aluminum Insulation Jacketing	29.25	4.72
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0043	LF		12" ID, 0.016" Aluminum Insulation Jacketing	30.04	4.81
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.27	
22 07 19 00-0044	LF		12-1/2" ID, 0.016" Aluminum Insulation Jacketing	31.06	4.95
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0045	LF		13" ID, 0.016" Aluminum Insulation Jacketing	31.69	5.00
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0046	LF		14" ID, 0.016" Aluminum Insulation Jacketing	32.79	5.05
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.32	
22 07 19 00-0047	LF		15" ID, 0.016" Aluminum Insulation Jacketing	34.08	5.15
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0048	LF		16" ID, 0.016" Aluminum Insulation Jacketing	35.19	5.21
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0049	LF		17" ID, 0.016" Aluminum Insulation Jacketing	36.49	5.32
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.38	
22 07 19 00-0050	LF		18" ID, 0.016" Aluminum Insulation Jacketing	37.33	5.38
			<i>For Stucco Embossed, Add</i>	0.16	
			<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0051	LF		19" ID, 0.016" Aluminum Insulation Jacketing	38.97	5.49
			<i>For Stucco Embossed, Add</i>	0.17	
			<i>For Corrugated, Add</i>	0.42	
22 07 19 00-0052	LF		20" ID, 0.016" Aluminum Insulation Jacketing	40.11	5.56
			<i>For Stucco Embossed, Add</i>	0.18	
			<i>For Corrugated, Add</i>	0.45	
22 07 19 00-0053	LF		21" ID, 0.016" Aluminum Insulation Jacketing	41.49	5.68
			<i>For Stucco Embossed, Add</i>	0.19	
			<i>For Corrugated, Add</i>	0.47	
22 07 19 00-0054	LF		22" ID, 0.016" Aluminum Insulation Jacketing	42.62	5.76
			<i>For Stucco Embossed, Add</i>	0.20	
			<i>For Corrugated, Add</i>	0.49	
22 07 19 00-0055	LF		23" ID, 0.016" Aluminum Insulation Jacketing	44.06	5.89
			<i>For Stucco Embossed, Add</i>	0.21	
			<i>For Corrugated, Add</i>	0.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0056 LF 24" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.21 0.21 0.53	5.96
22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.83 0.01 0.02	2.47
22 07 19 00-0059 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.33 0.01 0.03	2.53
22 07 19 00-0060 LF 1" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.85 0.01 0.04	2.59
22 07 19 00-0061 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.37 0.02 0.04	2.66
22 07 19 00-0062 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.80 0.02 0.05	2.70
22 07 19 00-0063 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.24 0.02 0.06	2.74
22 07 19 00-0064 LF 2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.75 0.03 0.06	2.79
22 07 19 00-0065 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.26 0.03 0.07	2.85
22 07 19 00-0066 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.80 0.03 0.08	2.91
22 07 19 00-0067 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.27 0.03 0.09	2.96
22 07 19 00-0068 LF 3" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.85 0.04 0.09	3.02
22 07 19 00-0069 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.39 0.04 0.10	3.09
22 07 19 00-0070 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.95 0.04 0.11	3.16
22 07 19 00-0071 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.46 0.05 0.11	3.22
22 07 19 00-0072 LF 4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.05 0.05 0.12	3.30
22 07 19 00-0073 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.65 0.05 0.13	3.38
22 07 19 00-0074 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.30 0.05 0.14	3.46
22 07 19 00-0075 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.85 0.06 0.14	3.53
22 07 19 00-0076 LF 5" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.50 0.06 0.15	3.62
22 07 19 00-0077 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.17 0.06 0.16	3.73
22 07 19 00-0078 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.77 0.07 0.16	3.81
22 07 19 00-0079 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.51 0.07 0.17	3.92
22 07 19 00-0080 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.24 0.07 0.18	4.03
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.77 0.07 0.19	4.09
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.29 0.08 0.19	4.15
22 07 19 00-0083 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.19 0.08 0.20	4.25

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0084	LF		7-1/4" ID, 0.020" Aluminum Insulation Jacketing	25.88	4.35
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0085	LF		7-1/2" ID, 0.020" Aluminum Insulation Jacketing	26.44	4.42
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0086	LF		8" ID, 0.020" Aluminum Insulation Jacketing	27.29	4.50
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0087	LF		8-1/2" ID, 0.020" Aluminum Insulation Jacketing	28.14	4.57
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0088	LF		9" ID, 0.020" Aluminum Insulation Jacketing	29.16	4.70
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0089	LF		9-1/2" ID, 0.020" Aluminum Insulation Jacketing	30.06	4.78
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.27	
22 07 19 00-0090	LF		10" ID, 0.020" Aluminum Insulation Jacketing	30.96	4.86
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0091	LF		10-1/2" ID, 0.020" Aluminum Insulation Jacketing	31.86	4.95
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.30	
22 07 19 00-0092	LF		11" ID, 0.0106 Aluminum Insulation Jacketing	32.97	5.09
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.32	
22 07 19 00-0093	LF		11-1/2" ID, 0.020" Aluminum Insulation Jacketing	33.94	5.18
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0094	LF		12" ID, 0.020" Aluminum Insulation Jacketing	34.89	5.28
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0095	LF		12-1/2" ID, 0.020" Aluminum Insulation Jacketing	36.08	5.44
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0096	LF		13" ID, 0.020" Aluminum Insulation Jacketing	36.85	5.49
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.37	
22 07 19 00-0097	LF		14" ID, 0.020" Aluminum Insulation Jacketing	38.21	5.55
			<i>For Stucco Embossed, Add</i>	0.16	
			<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0098	LF		15" ID, 0.020" Aluminum Insulation Jacketing	39.78	5.66
			<i>For Stucco Embossed, Add</i>	0.17	
			<i>For Corrugated, Add</i>	0.43	
22 07 19 00-0099	LF		16" ID, 0.020" Aluminum Insulation Jacketing	41.14	5.73
			<i>For Stucco Embossed, Add</i>	0.18	
			<i>For Corrugated, Add</i>	0.46	
22 07 19 00-0100	LF		17" ID, 0.020" Aluminum Insulation Jacketing	42.73	5.86
			<i>For Stucco Embossed, Add</i>	0.19	
			<i>For Corrugated, Add</i>	0.48	
22 07 19 00-0101	LF		18" ID, 0.020" Aluminum Insulation Jacketing	43.75	5.92
			<i>For Stucco Embossed, Add</i>	0.20	
			<i>For Corrugated, Add</i>	0.50	
22 07 19 00-0102	LF		19" ID, 0.020" Aluminum Insulation Jacketing	45.76	6.05
			<i>For Stucco Embossed, Add</i>	0.22	
			<i>For Corrugated, Add</i>	0.54	
22 07 19 00-0103	LF		20" ID, 0.020" Aluminum Insulation Jacketing	47.16	6.12
			<i>For Stucco Embossed, Add</i>	0.23	
			<i>For Corrugated, Add</i>	0.57	
22 07 19 00-0104	LF		21" ID, 0.020" Aluminum Insulation Jacketing	48.82	6.26
			<i>For Stucco Embossed, Add</i>	0.24	
			<i>For Corrugated, Add</i>	0.60	
22 07 19 00-0105	LF		22" ID, 0.020" Aluminum Insulation Jacketing	50.21	6.33
			<i>For Stucco Embossed, Add</i>	0.25	
			<i>For Corrugated, Add</i>	0.62	
22 07 19 00-0106	LF		23" ID, 0.020" Aluminum Insulation Jacketing	51.96	6.48
			<i>For Stucco Embossed, Add</i>	0.26	
			<i>For Corrugated, Add</i>	0.65	
22 07 19 00-0107	LF		24" ID, 0.020" Aluminum Insulation Jacketing	53.36	6.55
			<i>For Stucco Embossed, Add</i>	0.27	
			<i>For Corrugated, Add</i>	0.68	
22 07 19 00-0108			24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0109	LF		1/2" ID, 0.024" Aluminum Insulation Jacketing	11.90	2.70
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0110	LF		3/4" ID, 0.024" Aluminum Insulation Jacketing	12.49	2.76
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0111	LF		1" ID, 0.024" Aluminum Insulation Jacketing	13.08	2.83
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0112 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.68 0.02 0.05	2.90
22 07 19 00-0113 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.18 0.02 0.06	2.94
22 07 19 00-0114 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.69 0.03 0.07	2.98
22 07 19 00-0115 LF 2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.27 0.03 0.08	3.05
22 07 19 00-0116 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.85 0.03 0.09	3.11
22 07 19 00-0117 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.49 0.04 0.09	3.17
22 07 19 00-0118 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.02 0.04 0.10	3.23
22 07 19 00-0119 LF 3" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.69 0.04 0.11	3.30
22 07 19 00-0120 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.31 0.05 0.12	3.37
22 07 19 00-0121 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.95 0.05 0.13	3.45
22 07 19 00-0122 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.54 0.05 0.14	3.51
22 07 19 00-0123 LF 4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.20 0.06 0.15	3.59
22 07 19 00-0124 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.88 0.06 0.15	3.69
22 07 19 00-0125 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.63 0.07 0.16	3.79
22 07 19 00-0126 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.25 0.07 0.17	3.86
22 07 19 00-0127 LF 5" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.99 0.07 0.18	3.96
22 07 19 00-0128 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.76 0.07 0.19	4.07
22 07 19 00-0129 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.43 0.08 0.20	4.15
22 07 19 00-0130 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.27 0.08 0.20	4.27
22 07 19 00-0131 LF 6" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.11 0.09 0.21	4.40
22 07 19 00-0132 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.70 0.09 0.22	4.46
22 07 19 00-0133 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.30 0.09 0.23	4.53
22 07 19 00-0134 LF 7" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.35 0.10 0.25	4.63
22 07 19 00-0135 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.13 0.10 0.25	4.75
22 07 19 00-0136 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.77 0.10 0.26	4.83
22 07 19 00-0137 LF 8" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.76 0.11 0.28	4.91
22 07 19 00-0138 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.72 0.12 0.29	4.99
22 07 19 00-0139 LF 9" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.91 0.12 0.31	5.12

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0140	LF		9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.96 0.13 0.33	5.21
22 07 19 00-0141	LF		10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.99 0.14 0.34	5.30
22 07 19 00-0142	LF		10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.04 0.14 0.36	5.40
22 07 19 00-0143	LF		11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.30 0.15 0.38	5.55
22 07 19 00-0144	LF		11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.43 0.16 0.40	5.65
22 07 19 00-0145	LF		12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.52 0.16 0.41	5.77
22 07 19 00-0146	LF		12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.88 0.17 0.43	5.94
22 07 19 00-0147	LF		13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.78 0.18 0.44	6.00
22 07 19 00-0148	LF		14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.37 0.19 0.48	6.06
22 07 19 00-0149	LF		15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.20 0.20 0.51	6.18
22 07 19 00-0150	LF		16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.82 0.22 0.55	6.25
22 07 19 00-0151	LF		17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.68 0.23 0.58	6.38
22 07 19 00-0152	LF		18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.85 0.24 0.60	6.45
22 07 19 00-0153	LF		19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.19 0.26 0.65	6.59
22 07 19 00-0154	LF		20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.86 0.27 0.68	6.67
22 07 19 00-0155	LF		21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.78 0.28 0.71	6.83
22 07 19 00-0156	LF		22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.43 0.30 0.75	6.91
22 07 19 00-0157	LF		23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	59.44 0.31 0.78	7.07
22 07 19 00-0158	LF		24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.09 0.32 0.81	7.15
22 07 19 00-0159			32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0160	LF		1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.01 0.04	2.99
22 07 19 00-0161	LF		3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.17 0.02 0.05	3.06
22 07 19 00-0162	LF		1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.91 0.02 0.06	3.13
22 07 19 00-0163	LF		1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.66 0.03 0.07	3.21
22 07 19 00-0164	LF		1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.29 0.03 0.08	3.26
22 07 19 00-0165	LF		1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.93 0.04 0.09	3.30
22 07 19 00-0166	LF		2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.64 0.04 0.10	3.37
22 07 19 00-0167	LF		2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.37 0.05 0.11	3.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0168 LF 2-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.16 0.05 0.13	3.51
22 07 19 00-0169 LF 2-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.84 0.06 0.14	3.57
22 07 19 00-0170 LF 3" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.64 0.06 0.15	3.66
22 07 19 00-0171 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.41 0.06 0.16	3.74
22 07 19 00-0172 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.21 0.07 0.17	3.83
22 07 19 00-0173 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.92 0.07 0.18	3.90
22 07 19 00-0174 LF 4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.74 0.08 0.19	3.99
22 07 19 00-0175 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.58 0.08 0.21	4.09
22 07 19 00-0176 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.49 0.09 0.22	4.19
22 07 19 00-0177 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.26 0.09 0.23	4.27
22 07 19 00-0178 LF 5" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.16 0.10 0.24	4.38
22 07 19 00-0179 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.08 0.10 0.25	4.50
22 07 19 00-0180 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.91 0.11 0.26	4.60
22 07 19 00-0181 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.93 0.11 0.28	4.74
22 07 19 00-0182 LF 6" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.94 0.11 0.29	4.88
22 07 19 00-0183 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.67 0.12 0.30	4.95
22 07 19 00-0184 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.41 0.12 0.31	5.02
22 07 19 00-0185 LF 7" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.71 0.13 0.33	5.14
22 07 19 00-0186 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.64 0.14 0.34	5.26
22 07 19 00-0187 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.43 0.14 0.35	5.35
22 07 19 00-0188 LF 8" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.69 0.15 0.37	5.44
22 07 19 00-0189 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.91 0.16 0.40	5.53
22 07 19 00-0190 LF 9" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.38 0.17 0.42	5.67
22 07 19 00-0191 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.72 0.18 0.44	5.78
22 07 19 00-0192 LF 10" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.01 0.19 0.46	5.88
22 07 19 00-0193 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.32 0.19 0.48	5.98
22 07 19 00-0194 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.88 0.20 0.51	6.15
22 07 19 00-0195 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.29 0.21 0.53	6.27

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0196	LF		12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.66 0.22 0.55	6.39
22 07 19 00-0197	LF		12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.31 0.23 0.57	6.58
22 07 19 00-0198	LF		13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.46 0.24 0.60	6.64
22 07 19 00-0199	LF		14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.55 0.26 0.64	6.71
22 07 19 00-0200	LF		15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.87 0.27 0.69	6.86
22 07 19 00-0201	LF		16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.00 0.29 0.73	6.93
22 07 19 00-0202	LF		17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	59.35 0.31 0.78	7.08
22 07 19 00-0203	LF		18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.87 0.32 0.81	7.15
22 07 19 00-0204	LF		19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	63.89 0.35 0.87	7.31
22 07 19 00-0205	LF		20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	66.04 0.36 0.91	7.39
22 07 19 00-0206	LF		21" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	68.49 0.38 0.96	7.56
22 07 19 00-0207	LF		22" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	70.60 0.40 1.00	7.65
22 07 19 00-0208	LF		23" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	73.16 0.42 1.05	7.84
22 07 19 00-0209	LF		24" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	75.31 0.44 1.09	7.93
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>					
22 07 19 00-0211	LF		1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.63 0.02 0.05	3.44
22 07 19 00-0212	LF		3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.52 0.02 0.06	3.52
22 07 19 00-0213	LF		1" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.40 0.03 0.07	3.60
22 07 19 00-0214	LF		1-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.31 0.04 0.09	3.70
22 07 19 00-0215	LF		1-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.08 0.04 0.10	3.75
22 07 19 00-0216	LF		1-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.87 0.05 0.12	3.81
22 07 19 00-0217	LF		2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.73 0.05 0.13	3.88
22 07 19 00-0218	LF		2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.61 0.06 0.14	3.96
22 07 19 00-0219	LF		2-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.58 0.06 0.16	4.05
22 07 19 00-0220	LF		2-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.39 0.07 0.17	4.11
22 07 19 00-0221	LF		3" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.38 0.08 0.19	4.20
22 07 19 00-0222	LF		3-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.32 0.08 0.20	4.30
22 07 19 00-0223	LF		3-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.27 0.09 0.22	4.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.13 0.09 0.23	4.48
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.13 0.10 0.24	4.58
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.14 0.10 0.26	4.71
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.25 0.11 0.27	4.83
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.17 0.12 0.29	4.92
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.25 0.12 0.30	5.05
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.36 0.13 0.32	5.18
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.34 0.13 0.33	5.29
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.58 0.14 0.35	5.44
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.78 0.14 0.36	5.60
22 07 19 00-0234 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.68 0.15 0.37	5.69
22 07 19 00-0235 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.57 0.15 0.39	5.78
22 07 19 00-0236 LF 7" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.16 0.17 0.41	5.92
22 07 19 00-0237 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.28 0.17 0.43	6.06
22 07 19 00-0238 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.23 0.18 0.44	6.15
22 07 19 00-0239 LF 8" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.76 0.19 0.47	6.26
22 07 19 00-0240 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.27 0.20 0.50	6.36
22 07 19 00-0241 LF 9" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.04 0.21 0.52	6.52
22 07 19 00-0242 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.68 0.22 0.55	6.64
22 07 19 00-0243 LF 10" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.26 0.23 0.58	6.75
22 07 19 00-0244 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.86 0.24 0.61	6.89
22 07 19 00-0245 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.74 0.25 0.64	7.08
22 07 19 00-0246 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.47 0.27 0.67	7.21
22 07 19 00-0247 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.13 0.28 0.69	7.35
22 07 19 00-0248 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	59.13 0.29 0.72	7.57
22 07 19 00-0249 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.53 0.30 0.75	7.64
22 07 19 00-0250 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	63.14 0.32 0.81	7.72
22 07 19 00-0251 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	66.00 0.34 0.86	7.89

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0252	LF		16" ID, 0.040" Aluminum Insulation Jacketing	68.63	7.97
			<i>For Stucco Embossed, Add</i>	0.37	
			<i>For Corrugated, Add</i>	0.92	
22 07 19 00-0253	LF		17" ID, 0.040" Aluminum Insulation Jacketing	71.52	8.14
			<i>For Stucco Embossed, Add</i>	0.39	
			<i>For Corrugated, Add</i>	0.97	
22 07 19 00-0254	LF		18" ID, 0.040" Aluminum Insulation Jacketing	73.40	8.23
			<i>For Stucco Embossed, Add</i>	0.40	
			<i>For Corrugated, Add</i>	1.01	
22 07 19 00-0255	LF		19" ID, 0.040" Aluminum Insulation Jacketing	77.12	8.41
			<i>For Stucco Embossed, Add</i>	0.43	
			<i>For Corrugated, Add</i>	1.09	
22 07 19 00-0256	LF		20" ID, 0.040" Aluminum Insulation Jacketing	79.78	8.50
			<i>For Stucco Embossed, Add</i>	0.46	
			<i>For Corrugated, Add</i>	1.14	
22 07 19 00-0257	LF		21" ID, 0.040" Aluminum Insulation Jacketing	82.78	8.70
			<i>For Stucco Embossed, Add</i>	0.48	
			<i>For Corrugated, Add</i>	1.20	
22 07 19 00-0258	LF		22" ID, 0.040" Aluminum Insulation Jacketing	85.41	8.80
			<i>For Stucco Embossed, Add</i>	0.50	
			<i>For Corrugated, Add</i>	1.26	
22 07 19 00-0259	LF		23" ID, 0.040" Aluminum Insulation Jacketing	88.54	9.01
			<i>For Stucco Embossed, Add</i>	0.52	
			<i>For Corrugated, Add</i>	1.31	
22 07 19 00-0260	LF		24" ID, 0.040" Aluminum Insulation Jacketing	91.19	9.12
			<i>For Stucco Embossed, Add</i>	0.55	
			<i>For Corrugated, Add</i>	1.37	

22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)

22 07 19 00-0262	EA		1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.14	3.53
22 07 19 00-0263	EA		1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.66	3.67
22 07 19 00-0264	EA		2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.07	3.81
22 07 19 00-0265	EA		2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.30	3.87
22 07 19 00-0266	EA		2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.54	3.93
22 07 19 00-0267	EA		2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.92	4.02
22 07 19 00-0268	EA		3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	31.50	4.12
22 07 19 00-0269	EA		3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	31.92	4.23
22 07 19 00-0270	EA		3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	34.95	4.30
22 07 19 00-0271	EA		3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	35.71	4.38
22 07 19 00-0272	EA		4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.03	4.49
22 07 19 00-0273	EA		4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.91	4.58
22 07 19 00-0274	EA		4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	38.25	4.66
22 07 19 00-0275	EA		4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	38.61	4.76
22 07 19 00-0276	EA		5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.48	4.85
22 07 19 00-0277	EA		5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	45.25	4.95
22 07 19 00-0278	EA		5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	52.13	5.10
22 07 19 00-0279	EA		5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	52.55	5.21
22 07 19 00-0280	EA		6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	48.57	5.38
22 07 19 00-0281	EA		6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	49.05	5.49
22 07 19 00-0282	EA		6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	55.33	5.68
22 07 19 00-0283	EA		7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	62.83	5.82
22 07 19 00-0284	EA		7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	63.11	5.89
22 07 19 00-0285	EA		7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	81.99	5.96
22 07 19 00-0286	EA		8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	67.49	6.04
22 07 19 00-0287	EA		8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	104.86	6.18
22 07 19 00-0288	EA		9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.49	6.34
22 07 19 00-0289	EA		9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	84.64	6.42
22 07 19 00-0290	EA		10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	84.98	6.51
22 07 19 00-0291	EA		10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	86.59	6.59
22 07 19 00-0292	EA		11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	86.96	6.68
22 07 19 00-0293	EA		11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	95.93	6.88
22 07 19 00-0294	EA		12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	96.32	6.97
22 07 19 00-0295	EA		12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	150.51	7.17
22 07 19 00-0296	EA		13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	150.93	7.28
22 07 19 00-0297	EA		14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	193.37	7.49
22 07 19 00-0298	EA		15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	201.72	7.73
22 07 19 00-0299	EA		16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	217.73	7.86
22 07 19 00-0300	EA		2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	27.13	3.93
22 07 19 00-0301	EA		2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	27.51	4.02
22 07 19 00-0302	EA		3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.41	4.12
22 07 19 00-0303	EA		3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.83	4.23
22 07 19 00-0304	EA		3-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.94	4.30
22 07 19 00-0305	EA		3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.24	4.38
22 07 19 00-0306	EA		4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.97	4.49
22 07 19 00-0307	EA		4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.42	4.58
22 07 19 00-0308	EA		4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.76	4.66
22 07 19 00-0309	EA		4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	36.12	4.76
22 07 19 00-0310	EA		5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.47	4.85
22 07 19 00-0311	EA		5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.86	4.95
22 07 19 00-0312	EA		5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	41.46	5.10
22 07 19 00-0313	EA		6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	42.56	5.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0314	EA		6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.81	5.68
22 07 19 00-0315	EA		7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.34	5.82
22 07 19 00-0316	EA		7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	53.17	5.96
22 07 19 00-0317	EA		8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	53.46	6.04
22 07 19 00-0318	EA		8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	61.22	6.18
22 07 19 00-0319	EA		9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	61.85	6.34
22 07 19 00-0320	EA		9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	76.35	6.42
22 07 19 00-0321	EA		10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	76.69	6.51
22 07 19 00-0322	EA		10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	73.75	6.59
22 07 19 00-0323	EA		11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	74.12	6.68
22 07 19 00-0324	EA		11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	84.39	6.88
22 07 19 00-0325	EA		12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	84.78	6.97
22 07 19 00-0326	EA		13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	95.89	7.28
22 07 19 00-0327	EA		14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	111.95	7.49
22 07 19 00-0328	EA		15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	157.19	7.73
22 07 19 00-0329	EA		16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	168.30	7.86
22 07 19 00-0330	EA		17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	165.59	7.98
22 07 19 00-0331	EA		18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	184.91	8.11
22 07 19 00-0332	EA		19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	219.23	8.25
22 07 19 00-0333	EA		20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	213.66	8.38
22 07 19 00-0334	EA		21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	228.57	8.53
22 07 19 00-0335	EA		2-1/2" ID, Aluminum Tee Insulation Jacketing	100.99	5.62
22 07 19 00-0336	EA		2-3/4" ID, Aluminum Tee Insulation Jacketing	101.51	5.76
22 07 19 00-0337	EA		3" ID, Aluminum Tee Insulation Jacketing	112.24	5.89
22 07 19 00-0338	EA		3-1/4" ID, Aluminum Tee Insulation Jacketing	112.81	6.04
22 07 19 00-0339	EA		3-1/2" ID Aluminum Tee Insulation Jacketing	117.67	6.18
22 07 19 00-0340	EA		4" ID, Aluminum Tee Insulation Jacketing	119.30	6.34
22 07 19 00-0341	EA		4-1/4" ID, Aluminum Tee Insulation Jacketing	125.39	6.51
22 07 19 00-0342	EA		4-1/2" ID, Aluminum Tee Insulation Jacketing	125.29	6.68
22 07 19 00-0343	EA		4-3/4" ID, Aluminum Tee Insulation Jacketing	126.02	6.88
22 07 19 00-0344	EA		5" ID, Aluminum Tee Insulation Jacketing	130.49	7.07
22 07 19 00-0345	EA		5-1/4" ID, Aluminum Tee Insulation Jacketing	131.32	7.28
22 07 19 00-0346	EA		5-1/2" ID, Aluminum Tee Insulation Jacketing	136.74	7.49
22 07 19 00-0347	EA		6" ID, Aluminum Tee Insulation Jacketing	137.67	7.73
22 07 19 00-0348	EA		6-1/2" ID, Aluminum Tee Insulation Jacketing	150.25	8.25
22 07 19 00-0349	EA		7" ID, Aluminum Tee Insulation Jacketing	151.38	8.53
22 07 19 00-0350	EA		7-1/2" ID, Aluminum Tee Insulation Jacketing	165.73	8.83
22 07 19 00-0351	EA		8" ID, Aluminum Tee Insulation Jacketing	167.04	9.16
22 07 19 00-0352	EA		8-1/2" ID, Aluminum Tee Insulation Jacketing	171.89	9.51
22 07 19 00-0353	EA		9" ID, Aluminum Tee Insulation Jacketing	173.41	9.90
22 07 19 00-0354	EA		9-1/2" ID, Aluminum Tee Insulation Jacketing	139.71	10.10
22 07 19 00-0355	EA		10" ID, Aluminum Tee Insulation Jacketing	140.55	10.31
22 07 19 00-0356	EA		10-1/2" ID, Aluminum Tee Insulation Jacketing	147.90	10.53
22 07 19 00-0357	EA		11" ID, Aluminum Tee Insulation Jacketing	148.82	10.75
22 07 19 00-0358	EA		11-1/2" ID, Aluminum Tee Insulation Jacketing	155.54	11.00
22 07 19 00-0359	EA		12" ID, Aluminum Tee Insulation Jacketing	156.54	11.25
22 07 19 00-0360	EA		13" ID, Aluminum Tee Insulation Jacketing	163.14	11.50
22 07 19 00-0361	EA		14" ID, Aluminum Tee Insulation Jacketing	169.97	11.78
22 07 19 00-0362	EA		15" ID, Aluminum Tee Insulation Jacketing	181.14	12.07
22 07 19 00-0363	EA		16" ID, Aluminum Tee Insulation Jacketing	185.70	12.37
22 07 19 00-0364	EA		17" ID, Aluminum Tee Insulation Jacketing	207.36	12.68
22 07 19 00-0365	EA		18" ID, Aluminum Tee Insulation Jacketing	214.79	13.02
22 07 19 00-0366	EA		19" ID, Aluminum Tee Insulation Jacketing	233.41	13.37
22 07 19 00-0367	EA		20" ID, Aluminum Tee Insulation Jacketing	238.83	13.74
22 07 19 00-0368	EA		22" ID, Aluminum Tee Insulation Jacketing	290.43	14.14
22 07 19 00-0369	EA		23" ID, Aluminum Tee Insulation Jacketing	298.60	14.55
22 07 19 00-0370	EA		24" ID, Aluminum Tee Insulation Jacketing	310.48	15.96
22 07 19 00-0371			Stainless Steel Insulation Protective Jacketing With Bands <small>(22 07 19 00-0001)</small>		
22 07 19 00-0372			Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands <small>(22 07 19 00-0371)</small>		
22 07 19 00-0373	SF		0.010" Stainless Steel Insulation Jacket With Bands	23.46	9.28
22 07 19 00-0374	SF		0.016" Stainless Steel Insulation Jacket With Bands	28.85	11.13
22 07 19 00-0375			10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands <small>(22 07 19 00-0371)</small>		
22 07 19 00-0376	LF		2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.09	1.98
22 07 19 00-0377	LF		2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.62	2.02
22 07 19 00-0378	LF		3" ID, 0.010" Stainless Steel Insulation Jacketing	13.16	2.06
22 07 19 00-0379	LF		3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.71	2.11
22 07 19 00-0380	LF		3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	14.26	2.15
22 07 19 00-0381	LF		3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.82	2.20
22 07 19 00-0382	LF		4" ID, 0.010" Stainless Steel Insulation Jacketing	15.40	2.25
22 07 19 00-0383	LF		4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.98	2.30
22 07 19 00-0384	LF		4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	16.55	2.35
22 07 19 00-0385	LF		5" ID, 0.010" Stainless Steel Insulation Jacketing	17.79	2.47
22 07 19 00-0386	LF		5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	19.04	2.60
22 07 19 00-0387	LF		6" ID, 0.010" Stainless Steel Insulation Jacketing	20.36	2.75



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-0388	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.41	2.83
22 07 19 00-0389	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.49	2.91
22 07 19 00-0390	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.66	3.02
22 07 19 00-0391	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.61	3.07
22 07 19 00-0392	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	25.59	3.13
22 07 19 00-0393	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.58	3.19
22 07 19 00-0394	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.57	3.25
22 07 19 00-0395	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing.....	28.57	3.32
22 07 19 00-0396	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	29.59	3.39
22 07 19 00-0397	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing.....	30.62	3.46
22 07 19 00-0398	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing.....	32.70	3.61
22 07 19 00-0399	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing.....	34.73	3.75
22 07 19 00-0400	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing.....	36.44	3.81

22 07 19 00-0401 **16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands** (22 07 19 00-0371)

22 07 19 00-0402	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.58	2.64
22 07 19 00-0403	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.32	2.69
22 07 19 00-0404	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.09	2.75
22 07 19 00-0405	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.87	2.80
22 07 19 00-0406	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.65	2.86
22 07 19 00-0407	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	20.44	2.93
22 07 19 00-0408	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing.....	21.24	2.99
22 07 19 00-0409	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	22.05	3.06
22 07 19 00-0410	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	22.88	3.13
22 07 19 00-0411	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.60	3.29
22 07 19 00-0412	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.35	3.46
22 07 19 00-0413	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.19	3.66
22 07 19 00-0414	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.68	3.76
22 07 19 00-0415	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing.....	31.21	3.87
22 07 19 00-0416	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	32.84	4.01
22 07 19 00-0417	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing.....	34.22	4.09
22 07 19 00-0418	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	35.60	4.16
22 07 19 00-0419	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing.....	37.01	4.24
22 07 19 00-0420	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	38.42	4.33
22 07 19 00-0421	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing.....	39.83	4.41
22 07 19 00-0422	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	41.28	4.50
22 07 19 00-0423	LF	11" ID, 0.0106 Stainless Steel Insulation Jacketing.....	42.73	4.60
22 07 19 00-0424	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing.....	45.67	4.81
22 07 19 00-0425	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing.....	48.56	4.99
22 07 19 00-0426	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing.....	51.00	5.06

22 07 19 00-0427 **Type 316 Stainless Steel Insulation Protective Jacketing For Fittings** (22 07 19 00-0371)

22 07 19 00-0428	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	34.13	3.93
22 07 19 00-0429	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	34.51	4.02
22 07 19 00-0430	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	35.76	4.12
22 07 19 00-0431	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.18	4.23
22 07 19 00-0432	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	37.45	4.30
22 07 19 00-0433	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	38.90	4.38
22 07 19 00-0434	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	41.50	4.49
22 07 19 00-0435	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	49.58	4.58
22 07 19 00-0436	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	49.92	4.66
22 07 19 00-0437	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	51.37	4.85
22 07 19 00-0438	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	68.07	5.10
22 07 19 00-0439	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	73.83	5.38
22 07 19 00-0440	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	94.76	5.68
22 07 19 00-0441	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	95.29	5.82
22 07 19 00-0442	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	107.92	5.96
22 07 19 00-0443	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	108.82	6.18
22 07 19 00-0444	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	111.68	6.18
22 07 19 00-0445	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	157.61	6.34
22 07 19 00-0446	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	155.64	6.42
22 07 19 00-0447	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	155.98	6.51
22 07 19 00-0448	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	181.85	6.59
22 07 19 00-0449	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	175.16	6.68
22 07 19 00-0450	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	196.36	6.97
22 07 19 00-0451	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	262.54	7.28
22 07 19 00-0452	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	265.01	7.49
22 07 19 00-0453	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	31.06	3.93
22 07 19 00-0454	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	31.44	4.02
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.01	4.12
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.43	4.23
22 07 19 00-0457	EA	3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.94	4.30
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	34.24	4.38
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	39.50	4.49
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	48.52	4.58
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	48.86	4.66
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	49.22	4.76



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0463	EA		5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	50.11	4.85
22 07 19 00-0464	EA		5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.12	5.10
22 07 19 00-0465	EA		6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	57.93	5.38
22 07 19 00-0466	EA		6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	59.17	5.68
22 07 19 00-0467	EA		7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	84.91	5.82
22 07 19 00-0468	EA		7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	86.74	5.96
22 07 19 00-0469	EA		8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.03	6.04
22 07 19 00-0470	EA		8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.34	6.18
22 07 19 00-0471	EA		9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.97	6.34
22 07 19 00-0472	EA		9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	112.11	6.42
22 07 19 00-0473	EA		10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	112.45	6.51
22 07 19 00-0474	EA		10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	130.23	6.59
22 07 19 00-0475	EA		11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	130.60	6.68
22 07 19 00-0476	EA		12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	140.65	6.97
22 07 19 00-0477	EA		13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	161.81	7.28

22 07 19 00-0478 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

22 07 19 00-0479 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480	LF		1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.66	1.83
22 07 19 00-0481	LF		2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.38	1.90
22 07 19 00-0482	LF		2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.02	1.98
22 07 19 00-0483	LF		3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.79	2.06
22 07 19 00-0484	LF		3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.48	2.15
22 07 19 00-0485	LF		4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.26	2.25
22 07 19 00-0486	LF		4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.07	2.35
22 07 19 00-0487	LF		5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.88	2.47
22 07 19 00-0488	LF		5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.79	2.60
22 07 19 00-0489	LF		6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.76	2.75
22 07 19 00-0490	LF		6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.45	2.83
22 07 19 00-0491	LF		7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.11	2.91
22 07 19 00-0492	LF		7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.99	3.02
22 07 19 00-0493	LF		8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.54	3.07
22 07 19 00-0494	LF		8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.16	3.13
22 07 19 00-0495	LF		9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.79	3.19
22 07 19 00-0496	LF		9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.43	3.25
22 07 19 00-0497	LF		10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.02	3.32
22 07 19 00-0498	LF		10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.68	3.39
22 07 19 00-0499	LF		11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.35	3.46
22 07 19 00-0500	LF		11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.04	3.53
22 07 19 00-0501	LF		12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.68	3.61
22 07 19 00-0502	LF		12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.45	3.70
22 07 19 00-0503	LF		13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.00	3.75
22 07 19 00-0504	LF		13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.38	3.75
22 07 19 00-0505	LF		14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.01	3.81
22 07 19 00-0506	LF		15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.02	3.87
22 07 19 00-0507	LF		16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.97	3.93
22 07 19 00-0508	LF		17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.01	3.99
22 07 19 00-0509	LF		18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.05	4.06
22 07 19 00-0510	LF		19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.03	4.12
22 07 19 00-0511	LF		20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.09	4.19
22 07 19 00-0512	LF		21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.09	4.26
22 07 19 00-0513	LF		22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.17	4.34
22 07 19 00-0514	LF		23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.20	4.41
22 07 19 00-0515	LF		24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.29	4.49
22 07 19 00-0516	LF		25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.41	4.58
22 07 19 00-0517	LF		26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	38.46	4.66
22 07 19 00-0518	LF		27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	39.60	4.76
22 07 19 00-0519	LF		28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	40.69	4.85
22 07 19 00-0520	LF		29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	41.85	4.95
22 07 19 00-0521	LF		30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	43.03	5.05

22 07 19 00-0522 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0523	LF		2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.21	1.90
22 07 19 00-0524	LF		2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.07	1.98
22 07 19 00-0525	LF		3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.01	2.06
22 07 19 00-0526	LF		3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.86	2.15
22 07 19 00-0527	LF		4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.81	2.25
22 07 19 00-0528	LF		4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.78	2.35
22 07 19 00-0529	LF		5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.82	2.47
22 07 19 00-0530	LF		5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.89	2.60
22 07 19 00-0531	LF		6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.02	2.75
22 07 19 00-0532	LF		6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.88	2.83
22 07 19 00-0533	LF		7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.77	2.91
22 07 19 00-0534	LF		7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.81	3.02
22 07 19 00-0535	LF		8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.58	3.07
22 07 19 00-0536	LF		8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.37	3.13
22 07 19 00-0537	LF		9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.16	3.19
22 07 19 00-0538	LF		9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.97	3.25

22 Plumbing
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22 07 19 00-0539	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.78	3.32
22 07 19 00-0540	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.60	3.39
22 07 19 00-0541	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.45	3.46
22 07 19 00-0542	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.30	3.53
22 07 19 00-0543	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.16	3.61
22 07 19 00-0544	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.09	3.70
22 07 19 00-0545	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.86	3.75
22 07 19 00-0546	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.42	3.75
22 07 19 00-0547	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.21	3.81
22 07 19 00-0548	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.54	3.87
22 07 19 00-0549	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.89	3.93
22 07 19 00-0550	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.26	3.99
22 07 19 00-0551	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.69	4.06
22 07 19 00-0552	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.05	4.12
22 07 19 00-0553	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	39.44	4.19
22 07 19 00-0554	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.84	4.26
22 07 19 00-0555	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	42.24	4.34
22 07 19 00-0556	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.66	4.41
22 07 19 00-0557	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	45.08	4.49
22 07 19 00-0558	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	46.58	4.58
22 07 19 00-0559	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	48.03	4.66
22 07 19 00-0560	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	49.50	4.76
22 07 19 00-0561	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	50.97	4.85
22 07 19 00-0562	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	52.47	4.95
22 07 19 00-0563	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	53.97	5.05

22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.70	3.67
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.99	3.81
22 07 19 00-0567	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.66	3.87
22 07 19 00-0568	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.34	3.93
22 07 19 00-0569	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.11	4.02
22 07 19 00-0570	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.80	4.12
22 07 19 00-0571	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.09	4.26
22 07 19 00-0572	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.26	4.38
22 07 19 00-0573	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.50	4.49
22 07 19 00-0574	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.13	4.72
22 07 19 00-0575	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.79	4.95
22 07 19 00-0576	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	36.64	5.21
22 07 19 00-0577	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.36	5.49
22 07 19 00-0578	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	50.51	5.68
22 07 19 00-0579	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	58.06	5.82
22 07 19 00-0580	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	60.33	5.96
22 07 19 00-0581	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	71.68	6.18
22 07 19 00-0582	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	88.40	6.42
22 07 19 00-0583	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	96.75	6.68
22 07 19 00-0584	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	108.10	6.97
22 07 19 00-0585	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	130.39	7.28
22 07 19 00-0586	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	145.77	7.49
22 07 19 00-0587	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	155.32	7.73
22 07 19 00-0588	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	167.20	7.86
22 07 19 00-0589	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	182.59	7.98
22 07 19 00-0590	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	226.79	8.11
22 07 19 00-0591	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	296.84	8.25
22 07 19 00-0592	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	372.64	8.38
22 07 19 00-0593	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.70	3.67
22 07 19 00-0594	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.99	3.81
22 07 19 00-0595	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.66	3.87
22 07 19 00-0596	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.34	3.93
22 07 19 00-0597	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.11	4.02
22 07 19 00-0598	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.80	4.12
22 07 19 00-0599	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.09	4.26
22 07 19 00-0600	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.26	4.38
22 07 19 00-0601	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.50	4.49
22 07 19 00-0602	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.13	4.72
22 07 19 00-0603	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.79	4.95
22 07 19 00-0604	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	36.64	5.21
22 07 19 00-0605	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.36	5.49
22 07 19 00-0606	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	50.51	5.68
22 07 19 00-0607	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.06	5.82
22 07 19 00-0608	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	60.33	5.96
22 07 19 00-0609	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	71.68	6.18
22 07 19 00-0610	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	88.40	6.42
22 07 19 00-0611	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	96.69	6.68
22 07 19 00-0612	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	105.00	6.97
22 07 19 00-0613	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	115.19	7.28
22 07 19 00-0614	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	128.35	7.49
22 07 19 00-0615	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	136.47	7.73
22 07 19 00-0616	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	151.94	7.86
22 07 19 00-0617	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	167.66	7.98



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0618	EA			18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	198.31	8.11
22 07 19 00-0619	EA			19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	259.24	8.25
22 07 19 00-0620	EA			20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	289.81	8.38
22 07 19 00-0621	EA			1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	26.37	5.15
22 07 19 00-0622	EA			2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	27.57	5.26
22 07 19 00-0623	EA			2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	28.83	5.43
22 07 19 00-0624	EA			2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	30.23	5.62
22 07 19 00-0625	EA			2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.79	5.82
22 07 19 00-0626	EA			3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	33.36	6.04
22 07 19 00-0627	EA			3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	35.67	6.26
22 07 19 00-0628	EA			3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	38.09	6.51
22 07 19 00-0629	EA			4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	41.38	6.78
22 07 19 00-0630	EA			4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	46.02	7.07
22 07 19 00-0631	EA			5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	50.87	7.38
22 07 19 00-0632	EA			5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	59.77	7.86
22 07 19 00-0633	EA			6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	70.26	8.25
22 07 19 00-0634	EA			6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	79.65	8.38
22 07 19 00-0635	EA			7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	109.24	8.68
22 07 19 00-0636	EA			7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	118.37	9.16
22 07 19 00-0637	EA			8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	137.47	9.51
22 07 19 00-0638	EA			9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	156.80	9.90
22 07 19 00-0639	EA			10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	159.83	10.31
22 07 19 00-0640	EA			11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	173.86	10.53
22 07 19 00-0641	EA			12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	187.94	10.75
22 07 19 00-0642	EA			14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	202.16	11.00
22 07 19 00-0643	EA			15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	216.26	11.25
22 07 19 00-0644	EA			16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	230.53	11.50
22 07 19 00-0645	EA			17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	244.66	11.78
22 07 19 00-0646	EA			18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	265.72	12.07
22 07 19 00-0647	EA			19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	286.73	12.37
22 07 19 00-0648	EA			20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	312.17	12.68
22 07 19 00-0649	EA			3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	38.19	3.53
22 07 19 00-0650	EA			1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	38.19	3.53
22 07 19 00-0651	EA			1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	45.13	3.67
22 07 19 00-0652	EA			1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	45.13	3.67
22 07 19 00-0653	EA			2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	63.28	3.81
22 07 19 00-0654	EA			2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	69.19	3.96
22 07 19 00-0655	EA			3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	76.26	4.12
22 07 19 00-0656	EA			3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	86.38	4.30
22 07 19 00-0657	EA			4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	95.07	4.49
22 07 19 00-0658	EA			5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	115.61	4.95
22 07 19 00-0659	EA			6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	163.53	5.49
22 07 19 00-0660	EA			8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	178.89	6.18
22 07 19 00-0661	EA			10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	223.60	6.59
22 07 19 00-0662	EA			12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	312.74	7.28
22 07 19 00-0663	EA			14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	314.58	7.61
22 07 19 00-0664	EA			16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	417.84	7.86
22 07 19 00-0665	EA			18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	563.90	8.11
22 07 19 00-0666	EA			3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	35.54	3.53
22 07 19 00-0667	EA			1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	35.54	3.53
22 07 19 00-0668	EA			1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	41.92	3.67
22 07 19 00-0669	EA			1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	41.92	3.67
22 07 19 00-0670	EA			2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	58.03	3.81
22 07 19 00-0671	EA			2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	63.33	3.96
22 07 19 00-0672	EA			3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	69.85	4.12
22 07 19 00-0673	EA			3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	73.50	4.30
22 07 19 00-0674	EA			4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	86.55	4.49
22 07 19 00-0675	EA			5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	105.05	4.95
22 07 19 00-0676	EA			6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	148.00	5.49
22 07 19 00-0677	EA			8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	161.86	6.18
22 07 19 00-0678	EA			10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	201.93	6.59
22 07 19 00-0679	EA			12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	281.72	7.28
22 07 19 00-0680	EA			14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	359.03	7.61
22 07 19 00-0681	EA			16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	429.51	7.86
22 07 19 00-0682	EA			18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	502.30	8.11
22 07 19 00-0683	EA			3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	52.62	5.32
22 07 19 00-0684	EA			1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	52.62	5.32
22 07 19 00-0685	EA			1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	61.58	5.49
22 07 19 00-0686	EA			1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	61.58	5.49
22 07 19 00-0687	EA			2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	85.17	5.68
22 07 19 00-0688	EA			2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	93.01	5.89
22 07 19 00-0689	EA			3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	102.42	6.18
22 07 19 00-0690	EA			3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	108.03	6.42
22 07 19 00-0691	EA			4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	127.63	6.78
22 07 19 00-0692	EA			5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	140.28	7.38
22 07 19 00-0693	EA			6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	196.82	8.25
22 07 19 00-0694	EA			8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	214.24	9.16
22 07 19 00-0695	EA			10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	296.02	9.90
22 07 19 00-0696	EA			12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	411.65	10.75
22 07 19 00-0697	EA			14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	491.28	11.50
22 07 19 00-0698	EA			16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	581.22	11.78

22 Plumbing
22 07 Plumbing Insulation
 22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0699	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	636.67	12.07
22 07 19 00-0700			Insulation Foam Rubber <small>(22 07 19)</small>		
22 07 19 00-0701			Covering 4x6 Sheet <small>(22 07 19 00-0700)</small>		
22 07 19 00-0702	SF		1" Thick Foam Rubber Sheet Insulation	25.31	8.78
22 07 19 00-0703			Fiberglass (Glass Fiber) Pipe Insulation <small>(22 07 19)</small> Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704			1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0705	LF		1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.30	2.72
			<i>For Single Layer Of Felt Finish, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-0706	LF		3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.51	2.72
			<i>For Single Layer Of Felt Finish, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-0707	LF		1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.12	2.85
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.34	
22 07 19 00-0708	LF		1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.48	2.97
			<i>For Single Layer Of Felt Finish, Add</i>	0.27	
			<i>For Work In Restricted Working Space, Add</i>	2.39	
22 07 19 00-0709	LF		1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.79	2.97
			<i>For Single Layer Of Felt Finish, Add</i>	0.28	
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-0710	LF		2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.43	3.09
			<i>For Single Layer Of Felt Finish, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	2.56	
22 07 19 00-0711	LF		2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.99	3.21
			<i>For Single Layer Of Felt Finish, Add</i>	0.35	
			<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-0712	LF		3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.69	3.34
			<i>For Single Layer Of Felt Finish, Add</i>	0.39	
			<i>For Work In Restricted Working Space, Add</i>	2.70	
22 07 19 00-0713	LF		4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.44	3.58
			<i>For Single Layer Of Felt Finish, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	2.91	
22 07 19 00-0714	LF		6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.08	4.20
			<i>For Single Layer Of Felt Finish, Add</i>	0.60	
			<i>For Work In Restricted Working Space, Add</i>	3.40	
22 07 19 00-0715			1" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0716	LF		1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.47	3.71
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
22 07 19 00-0717	LF		3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.80	3.71
			<i>For Single Layer Of Felt Finish, Add</i>	0.28	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
22 07 19 00-0718	LF		1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.00	3.71
			<i>For Single Layer Of Felt Finish, Add</i>	0.28	
			<i>For Work In Restricted Working Space, Add</i>	3.09	
22 07 19 00-0719	LF		1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.49	3.84
			<i>For Single Layer Of Felt Finish, Add</i>	0.32	
			<i>For Work In Restricted Working Space, Add</i>	3.14	
22 07 19 00-0720	LF		1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.87	3.84
			<i>For Single Layer Of Felt Finish, Add</i>	0.34	
			<i>For Work In Restricted Working Space, Add</i>	3.18	
22 07 19 00-0721	LF		2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.46	3.96
			<i>For Single Layer Of Felt Finish, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	3.27	
22 07 19 00-0722	LF		2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.28	4.20
			<i>For Single Layer Of Felt Finish, Add</i>	0.41	
			<i>For Work In Restricted Working Space, Add</i>	3.40	
22 07 19 00-0723	LF		3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.08	4.33
			<i>For Single Layer Of Felt Finish, Add</i>	0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.49	
22 07 19 00-0724	LF		4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.26	4.57
			<i>For Single Layer Of Felt Finish, Add</i>	0.60	
			<i>For Work In Restricted Working Space, Add</i>	3.76	
22 07 19 00-0725	LF		6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.14	5.32
			<i>For Single Layer Of Felt Finish, Add</i>	0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0726	LF		8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.23	5.94
			<i>For Single Layer Of Felt Finish, Add</i>	1.05	
			<i>For Work In Restricted Working Space, Add</i>	4.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0727 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.84	7.05
<i>For Single Layer Of Felt Finish, Add</i>	1.23	
<i>For Work In Restricted Working Space, Add</i>	5.74	
22 07 19 00-0728 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.37	8.04
<i>For Single Layer Of Felt Finish, Add</i>	1.40	
<i>For Work In Restricted Working Space, Add</i>	6.62	
22 07 19 00-0729 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.26	8.78
<i>For Single Layer Of Felt Finish, Add</i>	1.62	
<i>For Work In Restricted Working Space, Add</i>	6.86	
22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0731 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.27	3.83
<i>For Single Layer Of Felt Finish, Add</i>	0.49	
<i>For Work In Restricted Working Space, Add</i>	3.18	
22 07 19 00-0732 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.48	3.83
<i>For Single Layer Of Felt Finish, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	3.18	
22 07 19 00-0733 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.36	4.05
<i>For Single Layer Of Felt Finish, Add</i>	0.54	
<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0734 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.96	4.13
<i>For Single Layer Of Felt Finish, Add</i>	0.58	
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0735 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.47	4.20
<i>For Single Layer Of Felt Finish, Add</i>	0.61	
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 07 19 00-0736 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.63	4.43
<i>For Single Layer Of Felt Finish, Add</i>	0.67	
<i>For Work In Restricted Working Space, Add</i>	3.68	
22 07 19 00-0737 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.48	4.50
<i>For Single Layer Of Felt Finish, Add</i>	0.73	
<i>For Work In Restricted Working Space, Add</i>	3.75	
22 07 19 00-0738 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.11	4.66
<i>For Single Layer Of Felt Finish, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	3.87	
22 07 19 00-0739 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.21	5.05
<i>For Single Layer Of Felt Finish, Add</i>	0.87	
<i>For Work In Restricted Working Space, Add</i>	4.19	
22 07 19 00-0740 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.72	5.89
<i>For Single Layer Of Felt Finish, Add</i>	0.99	
<i>For Work In Restricted Working Space, Add</i>	4.89	
22 07 19 00-0741 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.00	6.21
<i>For Single Layer Of Felt Finish, Add</i>	1.24	
<i>For Work In Restricted Working Space, Add</i>	5.16	
22 07 19 00-0742 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.47	7.43
<i>For Single Layer Of Felt Finish, Add</i>	1.56	
<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0743 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.17	8.65
<i>For Single Layer Of Felt Finish, Add</i>	1.70	
<i>For Work In Restricted Working Space, Add</i>	7.19	
22 07 19 00-0744 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.02	9.49
<i>For Single Layer Of Felt Finish, Add</i>	1.97	
<i>For Work In Restricted Working Space, Add</i>	7.88	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0746 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.97	4.20
<i>For Single Layer Of Felt Finish, Add</i>	0.77	
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 07 19 00-0747 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.22	4.20
<i>For Single Layer Of Felt Finish, Add</i>	0.80	
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 07 19 00-0748 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.89	4.33
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	3.53	
22 07 19 00-0749 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.49	4.33
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-0750 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.14	4.45
<i>For Single Layer Of Felt Finish, Add</i>	0.95	
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-0751 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.94	4.57
<i>For Single Layer Of Felt Finish, Add</i>	0.99	
<i>For Work In Restricted Working Space, Add</i>	3.76	
22 07 19 00-0752 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.07	4.70
<i>For Single Layer Of Felt Finish, Add</i>	1.06	
<i>For Work In Restricted Working Space, Add</i>	3.89	
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.31	4.95
<i>For Single Layer Of Felt Finish, Add</i>	1.15	
<i>For Work In Restricted Working Space, Add</i>	4.02	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.64	5.19
<i>For Single Layer Of Felt Finish, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	4.24	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0755	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.47	6.10
			<i>For Single Layer Of Felt Finish, Add</i>	1.52	
			<i>For Work In Restricted Working Space, Add</i>	5.09	
22 07 19 00-0756	LF		8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.85	6.44
			<i>For Single Layer Of Felt Finish, Add</i>	1.88	
			<i>For Work In Restricted Working Space, Add</i>	5.37	
22 07 19 00-0757	LF		10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.90	7.70
			<i>For Single Layer Of Felt Finish, Add</i>	2.25	
			<i>For Work In Restricted Working Space, Add</i>	6.43	
22 07 19 00-0758	LF		12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.24	9.24
			<i>For Single Layer Of Felt Finish, Add</i>	2.48	
			<i>For Work In Restricted Working Space, Add</i>	7.70	
22 07 19 00-0759	LF		14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.45	10.08
			<i>For Single Layer Of Felt Finish, Add</i>	2.80	
			<i>For Work In Restricted Working Space, Add</i>	10.74	
22 07 19 00-0760	LF		16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.15	11.81
			<i>For Single Layer Of Felt Finish, Add</i>	3.19	
			<i>For Work In Restricted Working Space, Add</i>	10.74	
22 07 19 00-0761	LF		18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	73.65	12.41
			<i>For Single Layer Of Felt Finish, Add</i>	3.79	
			<i>For Work In Restricted Working Space, Add</i>	11.27	
22 07 19 00-0762	LF		20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	83.43	14.18
			<i>For Single Layer Of Felt Finish, Add</i>	4.25	
			<i>For Work In Restricted Working Space, Add</i>	12.89	
22 07 19 00-0763	LF		24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.78	17.13
			<i>For Single Layer Of Felt Finish, Add</i>	4.71	
			<i>For Work In Restricted Working Space, Add</i>	15.57	
22 07 19 00-0764			2-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0765	LF		1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.63	4.95
			<i>For Single Layer Of Felt Finish, Add</i>	1.07	
			<i>For Work In Restricted Working Space, Add</i>	4.03	
22 07 19 00-0766	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.98	4.95
			<i>For Single Layer Of Felt Finish, Add</i>	1.11	
			<i>For Work In Restricted Working Space, Add</i>	4.03	
22 07 19 00-0767	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.96	4.95
			<i>For Single Layer Of Felt Finish, Add</i>	1.19	
			<i>For Work In Restricted Working Space, Add</i>	4.09	
22 07 19 00-0768	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.69	5.07
			<i>For Single Layer Of Felt Finish, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	4.12	
22 07 19 00-0769	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.45	5.07
			<i>For Single Layer Of Felt Finish, Add</i>	1.33	
			<i>For Work In Restricted Working Space, Add</i>	4.15	
22 07 19 00-0770	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.55	5.32
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	4.32	
22 07 19 00-0771	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.13	5.44
			<i>For Single Layer Of Felt Finish, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	4.47	
22 07 19 00-0772	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.57	5.68
			<i>For Single Layer Of Felt Finish, Add</i>	1.59	
			<i>For Work In Restricted Working Space, Add</i>	4.63	
22 07 19 00-0773	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.89	5.94
			<i>For Single Layer Of Felt Finish, Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
22 07 19 00-0774	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.87	6.31
			<i>For Single Layer Of Felt Finish, Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	5.55	
22 07 19 00-0775	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.33	7.54
			<i>For Single Layer Of Felt Finish, Add</i>	3.33	
			<i>For Work In Restricted Working Space, Add</i>	6.19	
22 07 19 00-0776	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.57	8.65
			<i>For Single Layer Of Felt Finish, Add</i>	4.07	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0777	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.86	10.76
			<i>For Single Layer Of Felt Finish, Add</i>	4.34	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
22 07 19 00-0778	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.25	11.87
			<i>For Single Layer Of Felt Finish, Add</i>	5.04	
			<i>For Work In Restricted Working Space, Add</i>	9.68	
22 07 19 00-0779	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	94.12	15.08
			<i>For Single Layer Of Felt Finish, Add</i>	5.55	
			<i>For Work In Restricted Working Space, Add</i>	12.37	
22 07 19 00-0780	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	101.32	15.83
			<i>For Single Layer Of Felt Finish, Add</i>	6.09	
			<i>For Work In Restricted Working Space, Add</i>	12.99	
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	114.95	18.05
			<i>For Single Layer Of Felt Finish, Add</i>	6.87	
			<i>For Work In Restricted Working Space, Add</i>	14.84	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	135.03	21.82
			<i>For Single Layer Of Felt Finish, Add</i>	7.90	
			<i>For Work In Restricted Working Space, Add</i>	17.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0783 3" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0784 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.04	5.46
For Single Layer Of Felt Finish, Add	1.18	
For Work In Restricted Working Space, Add	4.45	
22 07 19 00-0785 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.42	5.46
For Single Layer Of Felt Finish, Add	1.22	
For Work In Restricted Working Space, Add	4.45	
22 07 19 00-0786 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.43	5.51
For Single Layer Of Felt Finish, Add	1.31	
For Work In Restricted Working Space, Add	4.50	
22 07 19 00-0787 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.23	5.55
For Single Layer Of Felt Finish, Add	1.38	
For Work In Restricted Working Space, Add	4.53	
22 07 19 00-0788 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.12	5.61
For Single Layer Of Felt Finish, Add	1.45	
For Work In Restricted Working Space, Add	4.58	
22 07 19 00-0789 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.26	5.83
For Single Layer Of Felt Finish, Add	1.52	
For Work In Restricted Working Space, Add	4.75	
22 07 19 00-0790 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.00	6.03
For Single Layer Of Felt Finish, Add	1.64	
For Work In Restricted Working Space, Add	4.91	
22 07 19 00-0791 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.56	6.25
For Single Layer Of Felt Finish, Add	1.74	
For Work In Restricted Working Space, Add	5.09	
22 07 19 00-0792 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.24	6.59
For Single Layer Of Felt Finish, Add	2.03	
For Work In Restricted Working Space, Add	5.37	
22 07 19 00-0793 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.71	7.48
For Single Layer Of Felt Finish, Add	2.35	
For Work In Restricted Working Space, Add	6.10	
22 07 19 00-0794 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.45	8.34
For Single Layer Of Felt Finish, Add	3.65	
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0795 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	68.74	9.62
For Single Layer Of Felt Finish, Add	4.47	
For Work In Restricted Working Space, Add	7.85	
22 07 19 00-0796 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.85	11.96
For Single Layer Of Felt Finish, Add	4.76	
For Work In Restricted Working Space, Add	9.75	
22 07 19 00-0797 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.15	13.07
For Single Layer Of Felt Finish, Add	5.53	
For Work In Restricted Working Space, Add	10.64	
22 07 19 00-0798 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	103.39	16.68
For Single Layer Of Felt Finish, Add	6.09	
For Work In Restricted Working Space, Add	13.61	
22 07 19 00-0799 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	111.31	17.53
For Single Layer Of Felt Finish, Add	6.69	
For Work In Restricted Working Space, Add	14.29	
22 07 19 00-0800 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.29	20.03
For Single Layer Of Felt Finish, Add	7.54	
For Work In Restricted Working Space, Add	16.33	
22 07 19 00-0801 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	148.36	24.19
For Single Layer Of Felt Finish, Add	8.67	
For Work In Restricted Working Space, Add	19.73	
22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0803 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.06	5.94
For Single Layer Of Felt Finish, Add	1.24	
For Work In Restricted Working Space, Add	4.88	
22 07 19 00-0804 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.50	5.94
For Single Layer Of Felt Finish, Add	1.28	
For Work In Restricted Working Space, Add	4.88	
22 07 19 00-0805 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.98	5.94
For Single Layer Of Felt Finish, Add	1.43	
For Work In Restricted Working Space, Add	4.91	
22 07 19 00-0806 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.81	6.06
For Single Layer Of Felt Finish, Add	1.50	
For Work In Restricted Working Space, Add	4.94	
22 07 19 00-0807 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.83	6.06
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	5.01	
22 07 19 00-0808 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.02	6.31
For Single Layer Of Felt Finish, Add	1.66	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0809 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.92	6.55
For Single Layer Of Felt Finish, Add	1.79	
For Work In Restricted Working Space, Add	5.36	
22 07 19 00-0810 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.53	6.81
For Single Layer Of Felt Finish, Add	1.89	
For Work In Restricted Working Space, Add	5.55	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0811	LF		4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.70	7.17
			<i>For Single Layer Of Felt Finish, Add</i>	2.22	
			<i>For Work In Restricted Working Space, Add</i>	5.87	
22 07 19 00-0812	LF		6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	46.62	8.16
			<i>For Single Layer Of Felt Finish, Add</i>	2.57	
			<i>For Work In Restricted Working Space, Add</i>	6.65	
22 07 19 00-0813	LF		8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.75	9.03
			<i>For Single Layer Of Felt Finish, Add</i>	3.99	
			<i>For Work In Restricted Working Space, Add</i>	7.42	
22 07 19 00-0814	LF		10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	75.08	10.39
			<i>For Single Layer Of Felt Finish, Add</i>	4.89	
			<i>For Work In Restricted Working Space, Add</i>	8.56	
22 07 19 00-0815	LF		12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	85.03	12.98
			<i>For Single Layer Of Felt Finish, Add</i>	5.20	
			<i>For Work In Restricted Working Space, Add</i>	10.64	
22 07 19 00-0816	LF		14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.32	14.23
			<i>For Single Layer Of Felt Finish, Add</i>	6.05	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
22 07 19 00-0817	LF		16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	112.96	18.05
			<i>For Single Layer Of Felt Finish, Add</i>	6.67	
			<i>For Work In Restricted Working Space, Add</i>	14.84	
22 07 19 00-0818	LF		18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	121.58	19.04
			<i>For Single Layer Of Felt Finish, Add</i>	7.31	
			<i>For Work In Restricted Working Space, Add</i>	15.59	
22 07 19 00-0819	LF		20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	137.99	21.77
			<i>For Single Layer Of Felt Finish, Add</i>	8.25	
			<i>For Work In Restricted Working Space, Add</i>	17.82	
22 07 19 00-0820	LF		24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	162.07	26.22
			<i>For Single Layer Of Felt Finish, Add</i>	9.48	
			<i>For Work In Restricted Working Space, Add</i>	21.52	
22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0822	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.83	6.67
			<i>For Single Layer Of Felt Finish, Add</i>	1.45	
			<i>For Work In Restricted Working Space, Add</i>	5.42	
22 07 19 00-0823	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.32	6.67
			<i>For Single Layer Of Felt Finish, Add</i>	1.50	
			<i>For Work In Restricted Working Space, Add</i>	5.42	
22 07 19 00-0824	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.67	6.67
			<i>For Single Layer Of Felt Finish, Add</i>	1.60	
			<i>For Work In Restricted Working Space, Add</i>	5.52	
22 07 19 00-0825	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.74	6.81
			<i>For Single Layer Of Felt Finish, Add</i>	1.70	
			<i>For Work In Restricted Working Space, Add</i>	5.58	
22 07 19 00-0826	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.20	7.05
			<i>For Single Layer Of Felt Finish, Add</i>	1.79	
			<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0827	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.53	7.30
			<i>For Single Layer Of Felt Finish, Add</i>	1.86	
			<i>For Work In Restricted Working Space, Add</i>	5.93	
22 07 19 00-0828	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.27	7.30
			<i>For Single Layer Of Felt Finish, Add</i>	2.01	
			<i>For Work In Restricted Working Space, Add</i>	6.02	
22 07 19 00-0829	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.27	7.66
			<i>For Single Layer Of Felt Finish, Add</i>	2.15	
			<i>For Work In Restricted Working Space, Add</i>	6.25	
22 07 19 00-0830	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.74	8.04
			<i>For Single Layer Of Felt Finish, Add</i>	2.50	
			<i>For Work In Restricted Working Space, Add</i>	6.59	
22 07 19 00-0831	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.45	9.15
			<i>For Single Layer Of Felt Finish, Add</i>	2.89	
			<i>For Work In Restricted Working Space, Add</i>	7.48	
22 07 19 00-0832	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.60	9.90
			<i>For Single Layer Of Felt Finish, Add</i>	4.49	
			<i>For Work In Restricted Working Space, Add</i>	8.34	
22 07 19 00-0833	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	84.48	11.75
			<i>For Single Layer Of Felt Finish, Add</i>	5.50	
			<i>For Work In Restricted Working Space, Add</i>	9.64	
22 07 19 00-0834	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	95.67	14.59
			<i>For Single Layer Of Felt Finish, Add</i>	5.86	
			<i>For Work In Restricted Working Space, Add</i>	11.96	
22 07 19 00-0835	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	108.39	15.95
			<i>For Single Layer Of Felt Finish, Add</i>	6.81	
			<i>For Work In Restricted Working Space, Add</i>	13.07	
22 07 19 00-0836	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	127.13	20.41
			<i>For Single Layer Of Felt Finish, Add</i>	7.50	
			<i>For Work In Restricted Working Space, Add</i>	16.71	
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	136.72	21.40
			<i>For Single Layer Of Felt Finish, Add</i>	8.23	
			<i>For Work In Restricted Working Space, Add</i>	17.51	
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	153.18	24.49
			<i>For Single Layer Of Felt Finish, Add</i>	9.07	
			<i>For Work In Restricted Working Space, Add</i>	20.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0839 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	182.35	29.56
<i>For Single Layer Of Felt Finish, Add</i>	10.67	
<i>For Work In Restricted Working Space, Add</i>	24.22	
22 07 19 00-0840 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	207.89	34.88
<i>For Single Layer Of Felt Finish, Add</i>	11.84	
<i>For Work In Restricted Working Space, Add</i>	28.54	
22 07 19 00-0841 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	233.86	41.06
<i>For Single Layer Of Felt Finish, Add</i>	12.79	
<i>For Work In Restricted Working Space, Add</i>	33.61	
22 07 19 00-0842 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	263.05	48.49
<i>For Single Layer Of Felt Finish, Add</i>	13.69	
<i>For Work In Restricted Working Space, Add</i>	39.81	
22 07 19 00-0843 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	316.83	61.64
<i>For Single Layer Of Felt Finish, Add</i>	15.55	
<i>For Work In Restricted Working Space, Add</i>	50.62	
22 07 19 00-0844 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	370.61	75.08
<i>For Single Layer Of Felt Finish, Add</i>	17.41	
<i>For Work In Restricted Working Space, Add</i>	61.43	
22 07 19 00-0845 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	397.93	82.49
<i>For Single Layer Of Felt Finish, Add</i>	18.08	
<i>For Work In Restricted Working Space, Add</i>	67.71	
22 07 19 00-0846 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	422.62	88.80
<i>For Single Layer Of Felt Finish, Add</i>	18.81	
<i>For Work In Restricted Working Space, Add</i>	73.04	
22 07 19 00-0847 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell <small>(22 07 19)</small>		
<small>Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</small>		
22 07 19 00-0848 1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0849 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation	21.34	6.04
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0850 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation	22.12	6.04
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 07 19 00-0851 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation	23.17	6.12
<i>For Work In Restricted Working Space, Add</i>	5.56	
22 07 19 00-0852 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	23.70	6.21
<i>For Work In Restricted Working Space, Add</i>	5.64	
22 07 19 00-0853 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	24.49	6.30
<i>For Work In Restricted Working Space, Add</i>	5.72	
22 07 19 00-0854 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation	26.02	6.47
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0855 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	27.93	6.74
<i>For Work In Restricted Working Space, Add</i>	6.13	
22 07 19 00-0856 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation	29.98	6.92
<i>For Work In Restricted Working Space, Add</i>	6.29	
22 07 19 00-0857 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation	34.45	7.43
<i>For Work In Restricted Working Space, Add</i>	6.76	
22 07 19 00-0858 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation	43.43	8.39
<i>For Work In Restricted Working Space, Add</i>	7.63	
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0860 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	25.03	6.69
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0861 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	25.52	6.69
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0862 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	26.28	6.78
<i>For Work In Restricted Working Space, Add</i>	5.96	
22 07 19 00-0863 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	26.88	6.87
<i>For Work In Restricted Working Space, Add</i>	6.04	
22 07 19 00-0864 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	27.47	6.96
<i>For Work In Restricted Working Space, Add</i>	6.12	
22 07 19 00-0865 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.64	7.19
<i>For Work In Restricted Working Space, Add</i>	6.32	
22 07 19 00-0866 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	33.33	7.46
<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0867 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	36.60	7.68
<i>For Work In Restricted Working Space, Add</i>	6.76	
22 07 19 00-0868 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	41.26	8.18
<i>For Work In Restricted Working Space, Add</i>	7.20	
22 07 19 00-0869 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	48.45	9.26
<i>For Work In Restricted Working Space, Add</i>	8.15	
22 07 19 00-0870 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	54.18	10.33
<i>For Work In Restricted Working Space, Add</i>	9.09	
22 07 19 00-0871 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	65.51	11.91
<i>For Work In Restricted Working Space, Add</i>	10.48	
22 07 19 00-0872 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	77.96	14.80
<i>For Work In Restricted Working Space, Add</i>	13.02	
22 07 19 00-0873 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	86.50	15.57
<i>For Work In Restricted Working Space, Add</i>	14.15	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0874	LF		16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	95.32	17.39
			<i>For Work In Restricted Working Space, Add</i>	15.81	
22 07 19 00-0875	LF		18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	108.34	20.57
			<i>For Work In Restricted Working Space, Add</i>	18.70	
22 07 19 00-0876	LF		20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	120.95	22.77
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 07 19 00-0877	LF		24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	149.85	25.23
			<i>For Work In Restricted Working Space, Add</i>	22.93	
22 07 19 00-0878			2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0879	LF		1/2" Diameter Pipe, 2" Thick Foamglas Insulation	28.01	6.92
			<i>For Work In Restricted Working Space, Add</i>	6.29	
22 07 19 00-0880	LF		3/4" Diameter Pipe, 2" Thick Foamglas Insulation	28.77	6.92
			<i>For Work In Restricted Working Space, Add</i>	6.29	
22 07 19 00-0881	LF		1" Diameter Pipe, 2" Thick Foamglas Insulation	29.77	6.99
			<i>For Work In Restricted Working Space, Add</i>	6.36	
22 07 19 00-0882	LF		1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	31.24	7.09
			<i>For Work In Restricted Working Space, Add</i>	6.44	
22 07 19 00-0883	LF		1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	32.72	7.17
			<i>For Work In Restricted Working Space, Add</i>	6.52	
22 07 19 00-0884	LF		2" Diameter Pipe, 2" Thick Foamglas Insulation	36.38	7.43
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 07 19 00-0885	LF		2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	38.10	7.70
			<i>For Work In Restricted Working Space, Add</i>	7.00	
22 07 19 00-0886	LF		3" Diameter Pipe, 2" Thick Foamglas Insulation	40.78	7.96
			<i>For Work In Restricted Working Space, Add</i>	7.23	
22 07 19 00-0887	LF		4" Diameter Pipe, 2" Thick Foamglas Insulation	45.72	8.40
			<i>For Work In Restricted Working Space, Add</i>	7.63	
22 07 19 00-0888	LF		6" Diameter Pipe, 2" Thick Foamglas Insulation	54.52	9.53
			<i>For Work In Restricted Working Space, Add</i>	8.67	
22 07 19 00-0889	LF		8" Diameter Pipe, 2" Thick Foamglas Insulation	60.69	10.63
			<i>For Work In Restricted Working Space, Add</i>	9.67	
22 07 19 00-0890	LF		10" Diameter Pipe, 2" Thick Foamglas Insulation	73.62	12.26
			<i>For Work In Restricted Working Space, Add</i>	11.15	
22 07 19 00-0891	LF		12" Diameter Pipe, 2" Thick Foamglas Insulation	91.21	15.24
			<i>For Work In Restricted Working Space, Add</i>	13.85	
22 07 19 00-0892	LF		14" Diameter Pipe, 2" Thick Foamglas Insulation	97.57	16.64
			<i>For Work In Restricted Working Space, Add</i>	15.12	
22 07 19 00-0893	LF		16" Diameter Pipe, 2" Thick Foamglas Insulation	115.90	21.26
			<i>For Work In Restricted Working Space, Add</i>	19.33	
22 07 19 00-0894	LF		18" Diameter Pipe, 2" Thick Foamglas Insulation	126.06	22.32
			<i>For Work In Restricted Working Space, Add</i>	20.29	
22 07 19 00-0895	LF		20" Diameter Pipe, 2" Thick Foamglas Insulation	139.73	25.52
			<i>For Work In Restricted Working Space, Add</i>	23.19	
22 07 19 00-0896	LF		24" Diameter Pipe, 2" Thick Foamglas Insulation	174.88	30.83
			<i>For Work In Restricted Working Space, Add</i>	28.03	
22 07 19 00-0897			2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0898	LF		1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	33.70	7.49
			<i>For Work In Restricted Working Space, Add</i>	6.81	
22 07 19 00-0899	LF		3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	34.99	7.48
			<i>For Work In Restricted Working Space, Add</i>	6.81	
22 07 19 00-0900	LF		1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	36.67	7.60
			<i>For Work In Restricted Working Space, Add</i>	6.92	
22 07 19 00-0901	LF		1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	38.13	7.66
			<i>For Work In Restricted Working Space, Add</i>	6.97	
22 07 19 00-0902	LF		1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.63	7.73
			<i>For Work In Restricted Working Space, Add</i>	7.02	
22 07 19 00-0903	LF		2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	42.39	8.04
			<i>For Work In Restricted Working Space, Add</i>	7.31	
22 07 19 00-0904	LF		2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	45.04	8.32
			<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0905	LF		3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	48.77	8.61
			<i>For Work In Restricted Working Space, Add</i>	7.83	
22 07 19 00-0906	LF		4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	54.47	9.08
			<i>For Work In Restricted Working Space, Add</i>	8.26	
22 07 19 00-0907	LF		6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	64.95	10.33
			<i>For Work In Restricted Working Space, Add</i>	9.39	
22 07 19 00-0908	LF		8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	72.39	11.51
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 07 19 00-0909	LF		10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	82.63	13.27
			<i>For Work In Restricted Working Space, Add</i>	12.07	
22 07 19 00-0910	LF		12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	102.87	16.50
			<i>For Work In Restricted Working Space, Add</i>	15.00	
22 07 19 00-0911	LF		14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	107.53	18.01
			<i>For Work In Restricted Working Space, Add</i>	16.37	
22 07 19 00-0912	LF		16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	127.37	23.02
			<i>For Work In Restricted Working Space, Add</i>	20.93	
22 07 19 00-0913	LF		18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	138.22	24.17
			<i>For Work In Restricted Working Space, Add</i>	21.97	
22 07 19 00-0914	LF		20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	158.87	27.62
			<i>For Work In Restricted Working Space, Add</i>	25.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0915 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	198.57 30.34	33.38
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0917 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.37 7.25	7.97
22 07 19 00-0918 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.15 7.25	7.97
22 07 19 00-0919 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.32 7.36	8.10
22 07 19 00-0920 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.27 7.41	8.15
22 07 19 00-0921 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.27 7.47	8.23
22 07 19 00-0922 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.49 7.78	8.56
22 07 19 00-0923 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.57 8.05	8.86
22 07 19 00-0924 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.18 8.33	9.17
22 07 19 00-0925 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.00 8.78	9.66
22 07 19 00-0926 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.31 9.98	10.99
22 07 19 00-0927 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	80.50 11.14	12.25
22 07 19 00-0928 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	95.89 12.84	14.13
22 07 19 00-0929 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	111.72 15.95	17.55
22 07 19 00-0930 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	119.73 17.42	19.15
22 07 19 00-0931 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	143.42 22.26	24.49
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	153.38 23.38	25.72
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	179.54 26.72	29.38
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	219.35 32.28	35.51
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.63 8.78	9.66
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	49.61 8.78	9.66
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.79 8.84	9.72
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.95 8.90	9.78
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.32 9.01	9.91
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.48 9.32	10.25
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	63.69 9.65	10.61
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.21 9.98	10.99
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.94 10.55	11.61
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	82.75 11.98	13.19
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	94.03 13.35	14.68
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	112.29 15.40	16.94
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	132.97 19.15	21.06
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	138.98 20.90	22.99
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	167.11 26.72	29.38
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	183.28 28.05	30.86
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	208.71 32.09	35.29
22 07 19 00-0953 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	256.10 38.74	42.61
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0955	LF		1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.26 10.79	11.87
22 07 19 00-0956	LF		3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	60.52 10.79	11.87
22 07 19 00-0957	LF		1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.41 10.98	12.08
22 07 19 00-0958	LF		1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.09 11.11	12.22
22 07 19 00-0959	LF		1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.52 11.45	12.60
22 07 19 00-0960	LF		2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.70 11.81	12.98
22 07 19 00-0961	LF		2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	76.28 11.99	13.20
22 07 19 00-0962	LF		3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	80.05 12.44	13.68
22 07 19 00-0963	LF		4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	87.56 13.87	15.25
22 07 19 00-0964	LF		6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	100.97 14.89	16.38
22 07 19 00-0965	LF		8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	113.82 16.15	17.76
22 07 19 00-0966	LF		10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	130.53 19.18	21.10
22 07 19 00-0967	LF		12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	152.89 23.82	26.21
22 07 19 00-0968	LF		14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	166.29 26.03	28.62
22 07 19 00-0969	LF		16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	198.04 33.27	36.60
22 07 19 00-0970	LF		18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	219.75 34.87	38.36
22 07 19 00-0971	LF		20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	246.55 39.91	43.89
22 07 19 00-0972	LF		24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	312.05 48.21	53.04
22 07 19 00-0973			Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0974			3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0975	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.92 2.22	3.70
22 07 19 00-0976	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.93 2.23	3.70
22 07 19 00-0977	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.25 2.30	3.84
22 07 19 00-0978	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.60 2.38	3.96
22 07 19 00-0979	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.92 2.42	4.03
22 07 19 00-0980	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.30 2.46	4.09
22 07 19 00-0981	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.46 2.47	4.09
22 07 19 00-0982	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.88 2.48	4.09
22 07 19 00-0983	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.73 2.55	4.22
22 07 19 00-0984	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.09 2.59	4.29
22 07 19 00-0985			1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0986	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.80 2.42	4.03
22 07 19 00-0987	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.91 2.44	4.03
22 07 19 00-0988	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.06 2.46	4.09
22 07 19 00-0989	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.24 2.48	4.12
22 07 19 00-0990	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.72 2.54	4.22
22 07 19 00-0991	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.11 2.57	4.29
22 07 19 00-0992	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.56 2.61	4.35
22 07 19 00-0993	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.13 2.65	4.41
22 07 19 00-0994	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.10 2.73	4.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0995 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.11	4.61
<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-0996 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.06	4.67
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0997 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.64	4.74
<i>For Work In Restricted Working Space, Add</i>	2.85	
22 07 19 00-0998 3/4" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0999 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.81	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-1000 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.94	4.41
<i>For Work In Restricted Working Space, Add</i>	2.65	
22 07 19 00-1001 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.60	4.55
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-1002 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.89	4.61
<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-1003 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.71	4.74
<i>For Work In Restricted Working Space, Add</i>	2.85	
22 07 19 00-1004 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.54	4.82
<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-1005 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.92	4.84
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-1006 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.45	4.88
<i>For Work In Restricted Working Space, Add</i>	2.92	
22 07 19 00-1007 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.59	5.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
22 07 19 00-1008 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.71	5.07
<i>For Work In Restricted Working Space, Add</i>	3.04	
22 07 19 00-1009 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	18.23	5.13
<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-1010 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	18.87	5.19
<i>For Work In Restricted Working Space, Add</i>	3.12	
22 07 19 00-1011 1" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.19	4.82
<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.48	4.88
<i>For Work In Restricted Working Space, Add</i>	2.92	
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.43	5.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.71	5.07
<i>For Work In Restricted Working Space, Add</i>	3.04	
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.11	5.19
<i>For Work In Restricted Working Space, Add</i>	3.12	
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.81	5.33
<i>For Work In Restricted Working Space, Add</i>	3.20	
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	15.09	5.39
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.45	5.45
<i>For Work In Restricted Working Space, Add</i>	3.27	
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	17.43	5.59
<i>For Work In Restricted Working Space, Add</i>	3.35	
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	18.28	5.65
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
<small>Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</small>		
22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.22	3.70
<i>For Work In Restricted Working Space, Add</i>	2.22	
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.36	3.70
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.69	3.84
<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.90	3.90
<i>For Work In Restricted Working Space, Add</i>	2.34	
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.11	3.96
<i>For Work In Restricted Working Space, Add</i>	2.38	
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.39	4.03
<i>For Work In Restricted Working Space, Add</i>	2.42	
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.65	4.09
<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.91	4.09
<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.12	4.09
<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.35	4.16
<i>For Work In Restricted Working Space, Add</i>	2.49	
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.68	4.22
<i>For Work In Restricted Working Space, Add</i>	2.54	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1035	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.96 2.55	4.22
22 07 19 00-1036	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.16 2.57	4.29
22 07 19 00-1037	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.44 2.59	4.29
22 07 19 00-1038	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.07 2.61	4.35
22 07 19 00-1039	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.81 2.65	4.41
22 07 19 00-1040	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.64 2.67	4.44
22 07 19 00-1041			1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1042	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.29 2.42	4.03
22 07 19 00-1043	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.43 2.44	4.03
22 07 19 00-1044	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.57 2.46	4.09
22 07 19 00-1045	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.78 2.47	4.09
22 07 19 00-1046	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.93 2.48	4.09
22 07 19 00-1047	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.34 2.54	4.22
22 07 19 00-1048	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.71 2.57	4.29
22 07 19 00-1049	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.04 2.61	4.35
22 07 19 00-1050	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.38 2.63	4.39
22 07 19 00-1051	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.66 2.65	4.41
22 07 19 00-1052	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.73 2.69	4.49
22 07 19 00-1053	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.36 2.73	4.55
22 07 19 00-1054	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.84 2.75	4.58
22 07 19 00-1055	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.24 2.77	4.61
22 07 19 00-1056	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.54 2.79	4.65
22 07 19 00-1057	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.79 2.81	4.67
22 07 19 00-1058	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.00 2.85	4.74
22 07 19 00-1059	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.29 2.87	4.78
22 07 19 00-1060	LF		5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.47 2.88	4.82
22 07 19 00-1061	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.86 2.96	4.94
22 07 19 00-1062	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.42 3.04	5.07
22 07 19 00-1063			3/4" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1064	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.68 2.61	4.35
22 07 19 00-1065	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.99 2.65	4.41
22 07 19 00-1066	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.44 2.73	4.55
22 07 19 00-1067	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.71 2.75	4.58
22 07 19 00-1068	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.83 2.77	4.61
22 07 19 00-1069	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.49 2.85	4.74
22 07 19 00-1070	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.01 2.88	4.82
22 07 19 00-1071	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.53 2.92	4.88
22 07 19 00-1072	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.67 2.92	4.88
22 07 19 00-1073	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.88 2.95	4.91
22 07 19 00-1074	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.50 2.96	4.94
22 07 19 00-1075	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.84 3.00	5.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1076 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.55	5.04
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-1077 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.03	5.07
<i>For Work In Restricted Working Space, Add</i>	3.04	
22 07 19 00-1078 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.77	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-1079 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.06	5.13
<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-1080 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.18	5.19
<i>For Work In Restricted Working Space, Add</i>	3.12	
22 07 19 00-1081 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.07	5.23
<i>For Work In Restricted Working Space, Add</i>	3.14	
22 07 19 00-1082 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.57	5.26
<i>For Work In Restricted Working Space, Add</i>	3.15	
22 07 19 00-1083 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.16	5.33
<i>For Work In Restricted Working Space, Add</i>	3.20	
22 07 19 00-1084 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.08	5.45
<i>For Work In Restricted Working Space, Add</i>	3.27	
22 07 19 00-1085 1" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1086 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.52	4.80
<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-1087 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.89	4.88
<i>For Work In Restricted Working Space, Add</i>	2.92	
22 07 19 00-1088 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.37	5.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
22 07 19 00-1089 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.77	5.04
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-1090 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.11	5.07
<i>For Work In Restricted Working Space, Add</i>	3.04	
22 07 19 00-1091 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.72	5.19
<i>For Work In Restricted Working Space, Add</i>	3.12	
22 07 19 00-1092 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.67	5.33
<i>For Work In Restricted Working Space, Add</i>	3.20	
22 07 19 00-1093 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.15	5.33
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-1094 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.78	5.39
<i>For Work In Restricted Working Space, Add</i>	3.25	
22 07 19 00-1095 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.02	5.45
<i>For Work In Restricted Working Space, Add</i>	3.27	
22 07 19 00-1096 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.41	5.53
<i>For Work In Restricted Working Space, Add</i>	3.32	
22 07 19 00-1097 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.49	5.59
<i>For Work In Restricted Working Space, Add</i>	3.35	
22 07 19 00-1098 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.85	5.62
<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-1099 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.26	5.65
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-1100 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.98	5.68
<i>For Work In Restricted Working Space, Add</i>	3.41	
22 07 19 00-1101 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.32	5.71
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-1102 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.95	5.85
<i>For Work In Restricted Working Space, Add</i>	3.51	
22 07 19 00-1103 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.70	5.92
<i>For Work In Restricted Working Space, Add</i>	3.55	
22 07 19 00-1104 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.30	5.98
<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-1105 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.08	6.11
<i>For Work In Restricted Working Space, Add</i>	3.66	
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1107 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.02	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-1108 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.51	5.49
<i>For Work In Restricted Working Space, Add</i>	3.30	
22 07 19 00-1109 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.91	5.53
<i>For Work In Restricted Working Space, Add</i>	3.32	
22 07 19 00-1110 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.32	5.57
<i>For Work In Restricted Working Space, Add</i>	3.34	
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.89	5.70
<i>For Work In Restricted Working Space, Add</i>	3.41	
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.82	5.92
<i>For Work In Restricted Working Space, Add</i>	3.54	
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.11	5.83
<i>For Work In Restricted Working Space, Add</i>	3.57	
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.24	5.96
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.94	6.11
<i>For Work In Restricted Working Space, Add</i>	3.66	
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.09	6.18
<i>For Work In Restricted Working Space, Add</i>	3.71	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1117	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.12	6.26	
		<i>For Work In Restricted Working Space, Add</i>	3.74		
22 07 19 00-1118	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.08	6.28	
		<i>For Work In Restricted Working Space, Add</i>	3.76		
22 07 19 00-1119	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.03	6.30	
		<i>For Work In Restricted Working Space, Add</i>	3.78		
22 07 19 00-1120	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.14	6.33	
		<i>For Work In Restricted Working Space, Add</i>	3.80		
22 07 19 00-1121	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.84	6.36	
		<i>For Work In Restricted Working Space, Add</i>	3.82		
22 07 19 00-1122	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	36.68	6.59	
		<i>For Work In Restricted Working Space, Add</i>	3.95		
22 07 19 00-1123	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	38.72	6.69	
		<i>For Work In Restricted Working Space, Add</i>	4.01		
22 07 19 00-1124	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	43.66	6.79	
		<i>For Work In Restricted Working Space, Add</i>	4.07		
22 07 19 00-1125	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	48.57	7.00	
		<i>For Work In Restricted Working Space, Add</i>	4.19		
22 07 19 00-1126		2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>			
22 07 19 00-1127	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.44	5.94	
		<i>For Work In Restricted Working Space, Add</i>	3.56		
22 07 19 00-1128	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.52	6.03	
		<i>For Work In Restricted Working Space, Add</i>	3.64		
22 07 19 00-1129	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.36	6.07	
		<i>For Work In Restricted Working Space, Add</i>	3.65		
22 07 19 00-1130	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.99	6.12	
		<i>For Work In Restricted Working Space, Add</i>	3.66		
22 07 19 00-1131	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.56	6.25	
		<i>For Work In Restricted Working Space, Add</i>	3.74		
22 07 19 00-1132	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	34.50	6.54	
		<i>For Work In Restricted Working Space, Add</i>	3.92		
22 07 19 00-1133	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	35.62	6.38	
		<i>For Work In Restricted Working Space, Add</i>	3.95		
22 07 19 00-1134	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	37.64	6.60	
		<i>For Work In Restricted Working Space, Add</i>	4.02		
22 07 19 00-1135	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	39.58	6.83	
		<i>For Work In Restricted Working Space, Add</i>	4.10		
22 07 19 00-1136	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	40.87	6.92	
		<i>For Work In Restricted Working Space, Add</i>	4.14		
22 07 19 00-1137	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	43.52	7.00	
		<i>For Work In Restricted Working Space, Add</i>	4.17		
22 07 19 00-1138	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	43.85	7.02	
		<i>For Work In Restricted Working Space, Add</i>	4.20		
22 07 19 00-1139	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	46.33	7.03	
		<i>For Work In Restricted Working Space, Add</i>	4.22		
22 07 19 00-1140	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	48.06	7.05	
		<i>For Work In Restricted Working Space, Add</i>	4.24		
22 07 19 00-1141	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	49.89	7.09	
		<i>For Work In Restricted Working Space, Add</i>	4.25		
22 07 19 00-1142	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	56.01	7.42	
		<i>For Work In Restricted Working Space, Add</i>	4.44		
22 07 19 00-1143	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	59.57	7.57	
		<i>For Work In Restricted Working Space, Add</i>	4.54		
22 07 19 00-1144	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	60.64	7.71	
		<i>For Work In Restricted Working Space, Add</i>	4.63		
22 07 19 00-1145	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	68.02	8.03	
		<i>For Work In Restricted Working Space, Add</i>	4.81		
22 07 19 00-1146		Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>			
		Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.			
22 07 19 00-1147		3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-1146)</small>			
22 07 19 00-1148	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.94	3.70	
		<i>For Work In Restricted Working Space, Add</i>	2.22		
22 07 19 00-1149	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.02	3.70	
		<i>For Work In Restricted Working Space, Add</i>	2.23		
22 07 19 00-1150	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.31	3.84	
		<i>For Work In Restricted Working Space, Add</i>	2.30		
22 07 19 00-1151	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.68	3.96	
		<i>For Work In Restricted Working Space, Add</i>	2.38		
22 07 19 00-1152	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.89	4.03	
		<i>For Work In Restricted Working Space, Add</i>	2.42		
22 07 19 00-1153	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.27	4.09	
		<i>For Work In Restricted Working Space, Add</i>	2.46		
22 07 19 00-1154	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.56	4.09	
		<i>For Work In Restricted Working Space, Add</i>	2.47		
22 07 19 00-1155	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.76	4.22	
		<i>For Work In Restricted Working Space, Add</i>	2.48		
22 07 19 00-1156	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.68	4.22	
		<i>For Work In Restricted Working Space, Add</i>	2.55		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 07 19 00-1157	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.47 2.59	4.29
	22 07 19 00-1158	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.53 2.65	4.41
	22 07 19 00-1159			1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
	22 07 19 00-1160	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.87 2.42	4.03
	22 07 19 00-1161	LF	3/8"	I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.96 2.44	4.03
	22 07 19 00-1162	LF	1/2"	I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.13 2.46	4.09
	22 07 19 00-1163	LF	3/4"	I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.36 2.48	4.09
	22 07 19 00-1164	LF	1"	I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.66 2.54	4.22
	22 07 19 00-1165	LF	1-1/4"	I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.07 2.57	4.29
	22 07 19 00-1166	LF	1-1/2"	I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.51 2.61	4.35
	22 07 19 00-1167	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.95 2.65	4.41
	22 07 19 00-1168	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.93 2.73	4.55
	22 07 19 00-1169	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.80 2.77	4.61
	22 07 19 00-1170	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.43 2.85	4.74
	22 07 19 00-1171			3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
	22 07 19 00-1172	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.93 2.61	4.35
	22 07 19 00-1173	LF	3/8"	I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.25 2.65	4.41
	22 07 19 00-1174	LF	1/2"	I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.66 2.73	4.55
	22 07 19 00-1175	LF	3/4"	I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.26 2.77	4.61
	22 07 19 00-1176	LF	1"	I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.83 2.85	4.74
	22 07 19 00-1177	LF	1-1/4"	I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.77 2.88	4.82
	22 07 19 00-1178	LF	1-1/2"	I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.38 2.90	4.82
	22 07 19 00-1179	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.08 2.92	4.88
	22 07 19 00-1180	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.46 3.00	5.00
	22 07 19 00-1181	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.69 3.04	5.07
	22 07 19 00-1182	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.05 3.12	5.19
	22 07 19 00-1183			1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
	22 07 19 00-1184	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.76 2.88	4.82
	22 07 19 00-1185	LF	3/8"	I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.93 2.92	4.88
	22 07 19 00-1186	LF	1/2"	I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.35 3.00	5.00
	22 07 19 00-1187	LF	3/4"	I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.19 3.04	5.07
	22 07 19 00-1188	LF	1"	I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.91 3.12	5.19
	22 07 19 00-1189	LF	1-1/4"	I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.65 3.20	5.33
	22 07 19 00-1190	LF	1-1/2"	I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.35 3.23	5.33
	22 07 19 00-1191	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.90 3.27	5.45
	22 07 19 00-1192	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.01 3.35	5.59
	22 07 19 00-1193	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.50 3.39	5.65

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 Facility Water Distribution (22 10)

22 11 16 Domestic Water Piping (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.36	4.56
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-0.94	
		<i>For Work In Restricted Working Space, Add</i>	4.54	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.83	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	23.59	4.90
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-1.14	
		<i>For Work In Restricted Working Space, Add</i>	4.79	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.62	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	27.03	5.36
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-1.49	
		<i>For Work In Restricted Working Space, Add</i>	5.13	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.89	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	32.30	5.58
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-2.12	
		<i>For Work In Restricted Working Space, Add</i>	5.45	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	10.00	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	34.92	6.61
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-2.40	
		<i>For Work In Restricted Working Space, Add</i>	5.68	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	10.98	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	42.32	7.97
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-3.12	
		<i>For Work In Restricted Working Space, Add</i>	6.46	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	13.66	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	61.69	9.46
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-5.47	
		<i>For Work In Restricted Working Space, Add</i>	7.57	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	21.45	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	76.73	12.64
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-6.92	
		<i>For Work In Restricted Working Space, Add</i>	9.17	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	26.88	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	115.07	14.27
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-12.26	
		<i>For Work In Restricted Working Space, Add</i>	10.00	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	43.45	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	208.85	18.23
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-25.29	
		<i>For Work In Restricted Working Space, Add</i>	12.08	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	83.92	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	236.27	21.56
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For ASTM 120, Deduct</i>	-28.58	
		<i>For Work In Restricted Working Space, Add</i>	13.73	
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	94.88	

22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings (22 11 16)

Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.

22 11 16 00-0014 Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013)

Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0015 LF 1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	10.33	4.56
For ASTM 120, Deduct	-0.51	
For Work In Restricted Working Space, Add	2.07	
For Schedule 80 Pipe, Add	2.34	
22 11 16 00-0016 LF 3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	11.88	4.90
For ASTM 120, Deduct	-0.68	
For Work In Restricted Working Space, Add	2.21	
For Schedule 80 Pipe, Add	2.91	
22 11 16 00-0017 LF 1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	14.69	5.36
For ASTM 120, Deduct	-1.01	
For Work In Restricted Working Space, Add	2.39	
For Schedule 80 Pipe, Add	4.03	
22 11 16 00-0018 LF 1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	17.55	5.58
For ASTM 120, Deduct	-1.37	
For Work In Restricted Working Space, Add	2.53	
For Schedule 80 Pipe, Add	5.22	
22 11 16 00-0019 LF 1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	20.80	6.61
For ASTM 120, Deduct	-1.64	
For Work In Restricted Working Space, Add	2.97	
For Schedule 80 Pipe, Add	6.22	
22 11 16 00-0020 LF 2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	26.61	7.97
For ASTM 120, Deduct	-2.19	
For Work In Restricted Working Space, Add	3.59	
For Schedule 80 Pipe, Add	8.22	
22 11 16 00-0021 LF 2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	37.45	9.46
For ASTM 120, Deduct	-3.48	
For Work In Restricted Working Space, Add	4.27	
For Schedule 80 Pipe, Add	12.56	
22 11 16 00-0022 LF 3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	49.38	12.64
For ASTM 120, Deduct	-4.56	
For Work In Restricted Working Space, Add	5.70	
For Schedule 80 Pipe, Add	16.49	
22 11 16 00-0023 LF 4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	64.71	14.27
For ASTM 120, Deduct	-6.49	
For Work In Restricted Working Space, Add	6.44	
For Schedule 80 Pipe, Add	22.91	
22 11 16 00-0024 LF 5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	85.32	18.23
For ASTM 120, Deduct	-8.70	
For Work In Restricted Working Space, Add	8.19	
For Schedule 80 Pipe, Add	30.58	
22 11 16 00-0025 LF 6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	107.56	21.56
For ASTM 120, Deduct	-11.29	
For Work In Restricted Working Space, Add	9.69	
For Schedule 80 Pipe, Add	39.35	
22 11 16 00-0026 LF 8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe	120.31	26.07
For ASTM 120, Deduct	-12.20	
For Work In Restricted Working Space, Add	11.70	
For Schedule 80 Pipe, Add	42.93	
22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>		
Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0028 LF 1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	16.31	4.56
For ASTM 120, Deduct	-1.41	
For Work In Restricted Working Space, Add	2.07	
For Schedule 80 Pipe, Add	5.21	
22 11 16 00-0029 LF 3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	18.62	4.90
For ASTM 120, Deduct	-1.69	
For Work In Restricted Working Space, Add	2.21	
For Schedule 80 Pipe, Add	6.14	
22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	21.07	5.36
For ASTM 120, Deduct	-1.97	
For Work In Restricted Working Space, Add	2.39	
For Schedule 80 Pipe, Add	7.09	
22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	24.91	5.58
For ASTM 120, Deduct	-2.47	
For Work In Restricted Working Space, Add	2.53	
For Schedule 80 Pipe, Add	8.75	
22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	28.71	6.61
For ASTM 120, Deduct	-2.82	
For Work In Restricted Working Space, Add	2.97	
For Schedule 80 Pipe, Add	10.02	
22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	33.41	7.97
For ASTM 120, Deduct	-3.21	
For Work In Restricted Working Space, Add	3.59	
For Schedule 80 Pipe, Add	11.48	
22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	50.10	9.46
For ASTM 120, Deduct	-5.38	
For Work In Restricted Working Space, Add	4.27	
For Schedule 80 Pipe, Add	18.64	
22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	62.84	12.64
For ASTM 120, Deduct	-6.58	
For Work In Restricted Working Space, Add	5.70	
For Schedule 80 Pipe, Add	22.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0036	LF		4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	84.14	14.27
			<i>For ASTM 120, Deduct</i>	-9.40	
			<i>For Work In Restricted Working Space, Add</i>	6.44	
			<i>For Schedule 80 Pipe, Add</i>	32.24	
22 11 16 00-0037	LF		5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	109.12	18.23
			<i>For ASTM 120, Deduct</i>	-12.27	
			<i>For Work In Restricted Working Space, Add</i>	8.19	
			<i>For Schedule 80 Pipe, Add</i>	42.00	
22 11 16 00-0038	LF		6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	136.97	21.56
			<i>For ASTM 120, Deduct</i>	-15.70	
			<i>For Work In Restricted Working Space, Add</i>	9.69	
			<i>For Schedule 80 Pipe, Add</i>	53.47	
22 11 16 00-0039			Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	35.44	20.27
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For 300 LB Rating, Add</i>	19.06	
22 11 16 00-0041	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	40.23	22.66
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
			<i>For 300 LB Rating, Add</i>	23.22	
22 11 16 00-0042	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	49.50	25.28
			<i>For ASTM 120, Deduct</i>	-1.73	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
			<i>For 300 LB Rating, Add</i>	41.51	
22 11 16 00-0043	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	61.20	28.70
			<i>For ASTM 120, Deduct</i>	-2.73	
			<i>For Work In Restricted Working Space, Add</i>	12.89	
			<i>For 300 LB Rating, Add</i>	64.56	
22 11 16 00-0044	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	72.25	32.34
			<i>For ASTM 120, Deduct</i>	-3.57	
			<i>For Work In Restricted Working Space, Add</i>	14.54	
			<i>For 300 LB Rating, Add</i>	83.79	
22 11 16 00-0045	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	100.53	41.11
			<i>For ASTM 120, Deduct</i>	-5.85	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	136.19	
22 11 16 00-0046	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	193.09	60.82
			<i>For ASTM 120, Deduct</i>	-15.30	
			<i>For Work In Restricted Working Space, Add</i>	27.33	
			<i>For 300 LB Rating, Add</i>	352.20	
22 11 16 00-0047	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	288.01	79.95
			<i>For ASTM 120, Deduct</i>	-25.22	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
			<i>For 300 LB Rating, Add</i>	578.83	
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	421.68	83.45
			<i>For ASTM 120, Deduct</i>	-44.48	
			<i>For Work In Restricted Working Space, Add</i>	37.54	
			<i>For 300 LB Rating, Add</i>	1,015.74	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,411.17	87.10
			<i>For ASTM 120, Deduct</i>	-192.09	
			<i>For Work In Restricted Working Space, Add</i>	39.17	
			<i>For 300 LB Rating, Add</i>	4,361.84	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,317.09	91.07
			<i>For ASTM 120, Deduct</i>	-177.09	
			<i>For Work In Restricted Working Space, Add</i>	40.96	
			<i>For 300 LB Rating, Add</i>	4,022.13	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	1,566.95	95.16
			<i>For ASTM 120, Deduct</i>	-213.64	
			<i>For Work In Restricted Working Space, Add</i>	42.80	
			<i>For 300 LB Rating, Add</i>	4,851.11	
22 11 16 00-0052			Galvanized Malleable Iron Reducing 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	43.01	21.41
			<i>For ASTM 120, Deduct</i>	-1.62	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	49.87	24.03
			<i>For ASTM 120, Deduct</i>	-2.08	
			<i>For Work In Restricted Working Space, Add</i>	10.79	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	48.90	22.77
			<i>For ASTM 120, Deduct</i>	-2.21	
			<i>For Work In Restricted Working Space, Add</i>	10.25	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	63.78	26.99
			<i>For ASTM 120, Deduct</i>	-3.50	
			<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	66.49	25.62
			<i>For ASTM 120, Deduct</i>	-4.20	
			<i>For Work In Restricted Working Space, Add</i>	11.55	
22 11 16 00-0058	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	66.34	24.48
			<i>For ASTM 120, Deduct</i>	-4.45	
			<i>For Work In Restricted Working Space, Add</i>	11.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0059	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	82.96 -5.59 13.71	30.52
22 11 16 00-0060	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.45 -5.59 12.96	28.82
22 11 16 00-0061	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	78.47 -5.59 12.37	27.44
22 11 16 00-0062	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.53 -6.53 16.50	36.67
22 11 16 00-0063	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	102.16 -7.48 15.68	34.85
22 11 16 00-0064	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	101.52 -7.76 14.93	33.14
22 11 16 00-0065	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	87.04 -5.89 14.33	31.89
22 11 16 00-0066	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	223.83 -22.13 22.90	50.90
22 11 16 00-0067	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	234.12 -24.65 20.94	46.58
22 11 16 00-0068	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	373.57 -40.21 31.65	70.38
22 11 16 00-0069	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	323.56 -34.93 27.22	60.47
22 11 16 00-0070	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	725.68 -91.00 35.71	79.37
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)					
22 11 16 00-0072	EA		1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	37.08 -1.01 9.11 24.64	20.27
22 11 16 00-0073	EA		3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	43.66 -1.45 10.20 34.88	22.66
22 11 16 00-0074	EA		1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	48.86 -1.64 11.39 39.34	25.28
22 11 16 00-0075	EA		1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	63.33 -3.05 12.89 71.80	28.70
22 11 16 00-0076	EA		1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	72.38 -3.59 14.54 84.24	32.34
22 11 16 00-0077	EA		2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	96.95 -5.31 18.47 124.02	41.11
22 11 16 00-0078	EA		2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	214.25 -18.47 27.33 424.14	60.82
22 11 16 00-0079	EA		3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	298.98 -26.87 35.96 616.13	79.95
22 11 16 00-0080	EA		4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	425.40 -45.04 37.54 1,028.39	83.45
22 11 16 00-0081	EA		5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,343.86 -181.99 39.17 4,132.99	87.10
22 11 16 00-0082	EA		6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,599.46 -219.44 40.96 4,982.19	91.07

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0083	EA		8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,905.09	95.16
			<i>For ASTM 120, Deduct</i>	-264.36	
			<i>For Work In Restricted Working Space, Add</i>	42.80	
			<i>For 300 LB Rating, Add</i>	6,000.79	
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)					
22 11 16 00-0085	EA		1/2", 150 LB, Galvanized Malleable Iron Tee.....	44.53	25.28
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
			<i>For 300 LB Rating, Add</i>	24.62	
22 11 16 00-0086	EA		3/4", 150 LB, Galvanized Malleable Iron Tee.....	54.63	29.27
			<i>For ASTM 120, Deduct</i>	-1.62	
			<i>For Work In Restricted Working Space, Add</i>	13.14	
			<i>For 300 LB Rating, Add</i>	39.45	
22 11 16 00-0087	EA		1", 150 LB, Galvanized Malleable Iron Tee.....	69.27	34.50
			<i>For ASTM 120, Deduct</i>	-2.63	
			<i>For Work In Restricted Working Space, Add</i>	15.53	
			<i>For 300 LB Rating, Add</i>	62.64	
22 11 16 00-0088	EA		1-1/4", 150 LB, Galvanized Malleable Iron Tee.....	89.36	41.11
			<i>For ASTM 120, Deduct</i>	-4.17	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	98.21	
22 11 16 00-0089	EA		1-1/2", 150 LB, Galvanized Malleable Iron Tee.....	108.03	48.97
			<i>For ASTM 120, Deduct</i>	-5.18	
			<i>For Work In Restricted Working Space, Add</i>	22.04	
			<i>For 300 LB Rating, Add</i>	121.88	
22 11 16 00-0090	EA		2", 150 LB, Galvanized Malleable Iron Tee.....	147.27	60.82
			<i>For ASTM 120, Deduct</i>	-8.42	
			<i>For Work In Restricted Working Space, Add</i>	27.33	
			<i>For 300 LB Rating, Add</i>	196.41	
22 11 16 00-0091	EA		2-1/2", 150 LB, Galvanized Malleable Iron Tee.....	257.14	66.06
			<i>For ASTM 120, Deduct</i>	-23.72	
			<i>For Work In Restricted Working Space, Add</i>	29.71	
			<i>For 300 LB Rating, Add</i>	543.52	
22 11 16 00-0092	EA		3", 150 LB, Galvanized Malleable Iron Tee.....	305.29	79.95
			<i>For ASTM 120, Deduct</i>	-27.81	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
			<i>For 300 LB Rating, Add</i>	637.59	
22 11 16 00-0093	EA		4", 150 LB, Galvanized Malleable Iron Tee.....	596.71	105.44
			<i>For ASTM 120, Deduct</i>	-65.79	
			<i>For Work In Restricted Working Space, Add</i>	47.42	
			<i>For 300 LB Rating, Add</i>	1,500.83	
22 11 16 00-0094	EA		5", 150 LB, Galvanized Malleable Iron Tee.....	1,566.49	125.18
			<i>For ASTM 120, Deduct</i>	-206.82	
			<i>For Work In Restricted Working Space, Add</i>	56.32	
			<i>For 300 LB Rating, Add</i>	4,699.08	
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee.....	1,778.38	143.09
			<i>For ASTM 120, Deduct</i>	-234.58	
			<i>For Work In Restricted Working Space, Add</i>	64.36	
			<i>For 300 LB Rating, Add</i>	5,329.96	
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee.....	2,115.59	169.91
			<i>For ASTM 120, Deduct</i>	-278.72	
			<i>For Work In Restricted Working Space, Add</i>	77.24	
			<i>For 300 LB Rating, Add</i>	6,333.12	
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)					
22 11 16 00-0098	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	53.23	25.28
			<i>For ASTM 120, Deduct</i>	-2.29	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
			<i>For 300 LB Rating, Add</i>	54.20	
22 11 16 00-0099	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	58.86	29.27
			<i>For ASTM 120, Deduct</i>	-2.26	
			<i>For Work In Restricted Working Space, Add</i>	13.14	
			<i>For 300 LB Rating, Add</i>	53.83	
22 11 16 00-0100	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	72.92	34.50
			<i>For ASTM 120, Deduct</i>	-3.17	
			<i>For Work In Restricted Working Space, Add</i>	15.53	
			<i>For 300 LB Rating, Add</i>	75.05	
22 11 16 00-0101	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee	94.37	41.11
			<i>For ASTM 120, Deduct</i>	-4.92	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	115.25	
22 11 16 00-0102	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	114.00	48.97
			<i>For ASTM 120, Deduct</i>	-6.08	
			<i>For Work In Restricted Working Space, Add</i>	22.04	
			<i>For 300 LB Rating, Add</i>	142.18	
22 11 16 00-0103	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	150.28	60.82
			<i>For ASTM 120, Deduct</i>	-8.88	
			<i>For Work In Restricted Working Space, Add</i>	27.33	
			<i>For 300 LB Rating, Add</i>	206.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	308.31	66.28
			<i>For ASTM 120, Deduct</i>	-31.35	
			<i>For Work In Restricted Working Space, Add</i>	29.80	
			<i>For 300 LB Rating, Add</i>	716.46	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	392.80	81.20
			<i>For ASTM 120, Deduct</i>	-40.65	
			<i>For Work In Restricted Working Space, Add</i>	36.53	
			<i>For 300 LB Rating, Add</i>	928.77	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	943.73	105.44
			<i>For ASTM 120, Deduct</i>	-117.85	
			<i>For Work In Restricted Working Space, Add</i>	47.42	
			<i>For 300 LB Rating, Add</i>	2,680.69	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,009.45	125.18
			<i>For ASTM 120, Deduct</i>	-273.26	
			<i>For Work In Restricted Working Space, Add</i>	56.32	
			<i>For 300 LB Rating, Add</i>	6,205.15	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,281.45	143.09
			<i>For ASTM 120, Deduct</i>	-310.04	
			<i>For Work In Restricted Working Space, Add</i>	64.36	
			<i>For 300 LB Rating, Add</i>	7,040.40	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,738.89	164.31
			<i>For ASTM 120, Deduct</i>	-373.83	
			<i>For Work In Restricted Working Space, Add</i>	74.01	
			<i>For 300 LB Rating, Add</i>	8,488.21	
22 11 16 00-0110	Galvanized Malleable Iron Couplings (22 11 16 00-0013)				
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	41.00	20.27
			<i>For ASTM 120, Deduct</i>	-1.59	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For 300 LB Rating, Add</i>	37.96	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	46.25	22.66
			<i>For ASTM 120, Deduct</i>	-1.84	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
			<i>For 300 LB Rating, Add</i>	43.69	
22 11 16 00-0113	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	58.03	25.28
			<i>For ASTM 120, Deduct</i>	-3.01	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
			<i>For 300 LB Rating, Add</i>	70.52	
22 11 16 00-0114	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling	71.28	28.70
			<i>For ASTM 120, Deduct</i>	-4.25	
			<i>For Work In Restricted Working Space, Add</i>	12.89	
			<i>For 300 LB Rating, Add</i>	98.83	
22 11 16 00-0115	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling	80.63	32.34
			<i>For ASTM 120, Deduct</i>	-4.83	
			<i>For Work In Restricted Working Space, Add</i>	14.54	
			<i>For 300 LB Rating, Add</i>	112.29	
22 11 16 00-0116	EA		2", 150 LB, Galvanized Malleable Iron Coupling.....	108.60	41.11
			<i>For ASTM 120, Deduct</i>	-7.06	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	163.63	
22 11 16 00-0117	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling	235.10	60.82
			<i>For ASTM 120, Deduct</i>	-21.60	
			<i>For Work In Restricted Working Space, Add</i>	27.33	
			<i>For 300 LB Rating, Add</i>	495.03	
22 11 16 00-0118	EA		3", 150 LB, Galvanized Malleable Iron Coupling.....	312.33	79.95
			<i>For ASTM 120, Deduct</i>	-28.87	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
			<i>For 300 LB Rating, Add</i>	661.52	
22 11 16 00-0119	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	533.86	83.45
			<i>For ASTM 120, Deduct</i>	-61.31	
			<i>For Work In Restricted Working Space, Add</i>	37.54	
			<i>For 300 LB Rating, Add</i>	1,397.16	
22 11 16 00-0120	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	1,281.46	87.10
			<i>For ASTM 120, Deduct</i>	-172.63	
			<i>For Work In Restricted Working Space, Add</i>	39.17	
			<i>For 300 LB Rating, Add</i>	3,920.83	
22 11 16 00-0121	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	1,447.68	91.07
			<i>For ASTM 120, Deduct</i>	-196.67	
			<i>For Work In Restricted Working Space, Add</i>	40.96	
			<i>For 300 LB Rating, Add</i>	4,466.14	
22 11 16 00-0122	EA		8", 150 LB, Galvanized Malleable Iron Coupling.....	1,722.89	95.16
			<i>For ASTM 120, Deduct</i>	-237.03	
			<i>For Work In Restricted Working Space, Add</i>	42.80	
			<i>For 300 LB Rating, Add</i>	5,381.31	
22 11 16 00-0123	Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)				
22 11 16 00-0124	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	43.26	20.27
			<i>For ASTM 120, Deduct</i>	-1.93	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For 300 LB Rating, Add</i>	45.65	

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22 11 16 00-0125	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	47.78	22.66
			<i>For ASTM 120, Deduct</i>	-2.07	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
			<i>For 300 LB Rating, Add</i>	48.89	
22 11 16 00-0126	EA		1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	60.94	25.28
			<i>For ASTM 120, Deduct</i>	-3.45	
			<i>For Work In Restricted Working Space, Add</i>	11.39	
			<i>For 300 LB Rating, Add</i>	80.41	
22 11 16 00-0127	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	72.67	28.70
			<i>For ASTM 120, Deduct</i>	-4.46	
			<i>For Work In Restricted Working Space, Add</i>	12.89	
			<i>For 300 LB Rating, Add</i>	103.56	
22 11 16 00-0128	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	86.77	32.34
			<i>For ASTM 120, Deduct</i>	-5.75	
			<i>For Work In Restricted Working Space, Add</i>	14.54	
			<i>For 300 LB Rating, Add</i>	133.16	
22 11 16 00-0129	EA		2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	113.81	41.11
			<i>For ASTM 120, Deduct</i>	-7.84	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	181.34	
22 11 16 00-0130	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	236.92	60.82
			<i>For ASTM 120, Deduct</i>	-21.87	
			<i>For Work In Restricted Working Space, Add</i>	27.33	
			<i>For 300 LB Rating, Add</i>	501.22	
22 11 16 00-0131	EA		3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	306.87	79.95
			<i>For ASTM 120, Deduct</i>	-28.05	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
			<i>For 300 LB Rating, Add</i>	642.96	
22 11 16 00-0132	EA		4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	544.39	83.45
			<i>For ASTM 120, Deduct</i>	-62.89	
			<i>For Work In Restricted Working Space, Add</i>	37.54	
			<i>For 300 LB Rating, Add</i>	1,432.96	
22 11 16 00-0133	EA		5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,342.04	87.10
			<i>For ASTM 120, Deduct</i>	-181.72	
			<i>For Work In Restricted Working Space, Add</i>	39.17	
			<i>For 300 LB Rating, Add</i>	4,126.80	
22 11 16 00-0134	EA		6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,516.68	91.07
			<i>For ASTM 120, Deduct</i>	-207.02	
			<i>For Work In Restricted Working Space, Add</i>	40.96	
			<i>For 300 LB Rating, Add</i>	4,700.74	
22 11 16 00-0135	EA		8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,806.68	95.16
			<i>For ASTM 120, Deduct</i>	-249.60	
			<i>For Work In Restricted Working Space, Add</i>	42.80	
			<i>For 300 LB Rating, Add</i>	5,666.19	
22 11 16 00-0136			Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137	EA		1/2", 150 LB, Galvanized Malleable Iron Cap.....	16.91	9.46
			<i>For ASTM 120, Deduct</i>	-0.40	
			<i>For Work In Restricted Working Space, Add</i>	4.27	
			<i>For 300 LB Rating, Add</i>	9.93	
22 11 16 00-0138	EA		3/4", 150 LB, Galvanized Malleable Iron Cap.....	18.88	10.13
			<i>For ASTM 120, Deduct</i>	-0.55	
			<i>For Work In Restricted Working Space, Add</i>	4.56	
			<i>For 300 LB Rating, Add</i>	13.46	
22 11 16 00-0139	EA		1", 150 LB, Galvanized Malleable Iron Cap.....	22.10	11.73
			<i>For ASTM 120, Deduct</i>	-0.69	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For 300 LB Rating, Add</i>	16.62	
22 11 16 00-0140	EA		1-1/4", 150 LB, Galvanized Malleable Iron Cap.....	24.39	12.30
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	5.51	
			<i>For 300 LB Rating, Add</i>	21.57	
22 11 16 00-0141	EA		1-1/2", 150 LB, Galvanized Malleable Iron Cap.....	24.01	12.30
			<i>For ASTM 120, Deduct</i>	-0.85	
			<i>For Work In Restricted Working Space, Add</i>	5.51	
			<i>For 300 LB Rating, Add</i>	20.28	
22 11 16 00-0142	EA		2", 150 LB, Galvanized Malleable Iron Cap.....	36.56	16.29
			<i>For ASTM 120, Deduct</i>	-1.81	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For 300 LB Rating, Add</i>	42.51	
22 11 16 00-0143	EA		2-1/2", 150 LB, Galvanized Malleable Iron Cap.....	57.47	20.27
			<i>For ASTM 120, Deduct</i>	-4.07	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For 300 LB Rating, Add</i>	93.96	
22 11 16 00-0144	EA		3", 150 LB, Galvanized Malleable Iron Cap.....	75.31	24.48
			<i>For ASTM 120, Deduct</i>	-5.79	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For 300 LB Rating, Add</i>	133.34	
22 11 16 00-0145	EA		4", 150 LB, Galvanized Malleable Iron Cap.....	115.02	28.64
			<i>For ASTM 120, Deduct</i>	-10.82	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For 300 LB Rating, Add</i>	247.78	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0146	EA		5", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	293.03 -35.91 16.09 817.18	35.83
	22 11 16 00-0147	EA		6", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	365.62 -45.26 19.17 1,029.68	42.58
	22 11 16 00-0148	EA		8", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	462.35 -58.65 21.40 1,333.75	47.58
	22 11 16 00-0149			Galvanized Malleable Iron FIP Threaded, Unions <small>(22 11 16 00-0013)</small>		
	22 11 16 00-0150	EA		1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	59.91 11.39	25.28
	22 11 16 00-0151	EA		3/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	69.03 13.14	29.27
	22 11 16 00-0152	EA		1", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	84.80 15.53	34.50
	22 11 16 00-0153	EA		1-1/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	109.32 18.47	41.11
	22 11 16 00-0154	EA		1-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	131.35 22.04	48.97
	22 11 16 00-0155	EA		2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	157.64 27.33	60.82
	22 11 16 00-0156	EA		2-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	365.60 40.35	89.63
	22 11 16 00-0157	EA		3", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	500.43 53.09	117.87
	22 11 16 00-0158	EA		1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	82.60 11.39	25.28
	22 11 16 00-0159	EA		3/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	84.36 13.14	29.27
	22 11 16 00-0160	EA		1", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	102.05 15.53	34.50
	22 11 16 00-0161	EA		1-1/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	137.71 18.47	41.11
	22 11 16 00-0162	EA		1-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	161.16 22.04	48.97
	22 11 16 00-0163	EA		2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	214.93 27.33	60.82
	22 11 16 00-0164	EA		2-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	460.22 40.35	89.63
	22 11 16 00-0165	EA		3", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	676.72 53.09	117.87
	22 11 16 00-0166	EA		4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	968.66 55.42	123.15
	22 11 16 00-0167	EA		1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	88.83 11.39	25.28
	22 11 16 00-0168	EA		3/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	98.96 13.14	29.27
	22 11 16 00-0169	EA		1", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	124.94 15.53	34.50
	22 11 16 00-0170	EA		1-1/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	163.59 18.47	41.11
	22 11 16 00-0171	EA		1-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	196.34 22.04	48.97
	22 11 16 00-0172	EA		2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	238.58 27.33	60.82
	22 11 16 00-0173	EA		2-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	545.85 40.35	89.63
	22 11 16 00-0174	EA		3", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	872.67 53.09	117.87
	22 11 16 00-0175	EA		4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,929.57 55.42	123.15
	22 11 16 00-0176			Galvanized Steel Nipples <small>(22 11 16 00-0013)</small> Note: ASTM A-53.		
	22 11 16 00-0177	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.09 -0.42 4.88 3.21	10.82
	22 11 16 00-0178	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	18.55 -0.34 4.88 2.60	10.82
	22 11 16 00-0179	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.04 -0.42 4.88 3.16	10.82

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22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple.....	21.32	11.73
			<i>For ASTM 120, Deduct</i>	-0.57	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	4.33	
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple	24.08	12.64
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	5.80	
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple	24.96	12.64
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	6.81	
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple.....	32.91	16.29
			<i>For ASTM 120, Deduct</i>	-1.26	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	9.60	
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	55.44	20.27
			<i>For ASTM 120, Deduct</i>	-3.76	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	28.58	
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple.....	66.78	24.48
			<i>For ASTM 120, Deduct</i>	-4.51	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	34.25	
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple.....	87.93	28.64
			<i>For ASTM 120, Deduct</i>	-6.75	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	51.33	
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.50	10.82
			<i>For ASTM 120, Deduct</i>	-0.48	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.68	
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.67	10.82
			<i>For ASTM 120, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	2.74	
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.28	10.82
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.43	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.50	10.82
			<i>For ASTM 120, Deduct</i>	-0.48	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.68	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	18.67	10.82
			<i>For ASTM 120, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	2.74	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.28	10.82
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.43	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple	22.00	11.73
			<i>For ASTM 120, Deduct</i>	-0.67	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	5.11	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	24.45	12.64
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	6.22	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	25.41	12.64
			<i>For ASTM 120, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	7.32	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.58	10.82
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	4.91	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.09	10.82
			<i>For ASTM 120, Deduct</i>	-0.42	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.21	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.60	10.82
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.80	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.37	11.73
			<i>For ASTM 120, Deduct</i>	-0.73	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	5.53	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.99	12.64
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	6.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	26.14 -1.07 5.70 8.15	12.64
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	33.97 -1.42 7.35 10.81	16.29
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	20.58 -0.65 4.88 4.91	10.82
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.09 -0.42 4.88 3.21	10.82
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.60 -0.50 4.88 3.80	10.82
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	22.37 -0.73 5.26 5.53	11.73
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	24.99 -0.90 5.70 6.84	12.64
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	26.14 -1.07 5.70 8.15	12.64
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	33.97 -1.42 7.35 10.81	16.29
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	56.40 -3.90 9.11 29.67	20.27
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	70.92 -5.13 11.02 38.97	24.48
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	21.39 -0.77 4.88 5.84	10.82
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.75 -0.52 4.88 3.97	10.82
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	20.58 -0.65 4.88 4.91	10.82
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	23.35 -0.87 5.26 6.65	11.73
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	26.14 -1.07 5.70 8.15	12.64
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	28.03 -1.36 5.70 10.31	12.64
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	36.00 -1.73 7.35 13.12	16.29
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	60.59 -4.53 9.11 34.45	20.27
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	76.85 -6.02 11.02 45.73	24.48
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	21.39 -0.77 4.88 5.84	10.82

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	19.75	10.82
			<i>For ASTM 120, Deduct</i>	-0.52	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	3.97	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	21.39	10.82
			<i>For ASTM 120, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	5.84	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple	23.35	11.73
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	6.65	
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	26.14	12.64
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	8.15	
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	28.03	12.64
			<i>For ASTM 120, Deduct</i>	-1.36	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	10.31	
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple	36.10	16.29
			<i>For ASTM 120, Deduct</i>	-1.74	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	13.24	
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	60.59	20.27
			<i>For ASTM 120, Deduct</i>	-4.53	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	34.45	
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple	76.85	24.48
			<i>For ASTM 120, Deduct</i>	-6.02	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	45.73	
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple	96.74	28.64
			<i>For ASTM 120, Deduct</i>	-8.08	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	61.38	
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.32	10.82
			<i>For ASTM 120, Deduct</i>	-1.06	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	8.04	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.46	10.82
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	4.78	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.41	10.82
			<i>For ASTM 120, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	5.86	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.67	11.73
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	8.15	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.83	12.64
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	10.08	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.91	12.64
			<i>For ASTM 120, Deduct</i>	-1.64	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	12.45	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	39.18	16.29
			<i>For ASTM 120, Deduct</i>	-2.20	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	16.75	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	64.06	20.27
			<i>For ASTM 120, Deduct</i>	-5.05	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	38.41	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	83.48	24.48
			<i>For ASTM 120, Deduct</i>	-7.01	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	53.28	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	103.28	28.64
			<i>For ASTM 120, Deduct</i>	-9.06	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	68.83	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	23.32	10.82
			<i>For ASTM 120, Deduct</i>	-1.06	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	8.04	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	20.46	10.82
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	4.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	21.41	10.82
			<i>For ASTM 120, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	5.86	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.67	11.73
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	8.15	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	27.83	12.64
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	10.08	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	29.91	12.64
			<i>For ASTM 120, Deduct</i>	-1.64	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	12.45	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple	39.18	16.29
			<i>For ASTM 120, Deduct</i>	-2.20	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	16.75	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	64.06	20.27
			<i>For ASTM 120, Deduct</i>	-5.05	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	38.41	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple	83.48	24.48
			<i>For ASTM 120, Deduct</i>	-7.01	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	53.28	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple	103.28	28.64
			<i>For ASTM 120, Deduct</i>	-9.06	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	68.83	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	24.11	10.82
			<i>For ASTM 120, Deduct</i>	-1.18	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	8.94	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	21.02	10.82
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	5.42	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	22.44	10.82
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	7.03	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple	25.62	11.73
			<i>For ASTM 120, Deduct</i>	-1.22	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	9.23	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	29.25	12.64
			<i>For ASTM 120, Deduct</i>	-1.54	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	11.70	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	31.28	12.64
			<i>For ASTM 120, Deduct</i>	-1.84	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	14.01	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple	41.56	16.29
			<i>For ASTM 120, Deduct</i>	-2.56	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	19.46	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	67.39	20.27
			<i>For ASTM 120, Deduct</i>	-5.55	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	42.20	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple	86.18	24.48
			<i>For ASTM 120, Deduct</i>	-7.42	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	56.36	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple	109.65	28.64
			<i>For ASTM 120, Deduct</i>	-10.01	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	76.10	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple	47.59	10.82
			<i>For ASTM 120, Deduct</i>	-4.70	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	35.70	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	24.64	10.82
			<i>For ASTM 120, Deduct</i>	-1.26	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	9.54	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	26.97	10.82
			<i>For ASTM 120, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	12.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple	31.08	11.73
			<i>For ASTM 120, Deduct</i>	-2.03	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	15.46	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	35.62	12.64
			<i>For ASTM 120, Deduct</i>	-2.49	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	18.96	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	38.06	12.64
			<i>For ASTM 120, Deduct</i>	-2.86	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	21.74	
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple	52.31	16.29
			<i>For ASTM 120, Deduct</i>	-4.17	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	31.71	
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	78.02	20.27
			<i>For ASTM 120, Deduct</i>	-7.15	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	54.32	
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple	103.34	24.48
			<i>For ASTM 120, Deduct</i>	-9.99	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	75.92	
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple	122.55	28.64
			<i>For ASTM 120, Deduct</i>	-11.95	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	90.80	
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	31.21	10.82
			<i>For ASTM 120, Deduct</i>	-2.24	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	17.03	
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	26.21	10.82
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	11.33	
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	28.15	10.82
			<i>For ASTM 120, Deduct</i>	-1.78	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	13.54	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	33.02	11.73
			<i>For ASTM 120, Deduct</i>	-2.33	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	17.67	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	38.87	12.64
			<i>For ASTM 120, Deduct</i>	-2.98	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	22.66	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	41.22	12.64
			<i>For ASTM 120, Deduct</i>	-3.33	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	25.34	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	57.03	16.29
			<i>For ASTM 120, Deduct</i>	-4.88	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	37.10	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	84.68	20.27
			<i>For ASTM 120, Deduct</i>	-8.15	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	61.91	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	112.72	24.48
			<i>For ASTM 120, Deduct</i>	-11.40	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	86.62	
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	135.21	28.64
			<i>For ASTM 120, Deduct</i>	-13.85	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	105.23	
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	32.82	10.82
			<i>For ASTM 120, Deduct</i>	-2.48	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	18.87	
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	27.58	10.82
			<i>For ASTM 120, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	12.89	
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	29.59	10.82
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Schedule 80 Nipples, Add</i>	15.18	
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	35.57	11.73
			<i>For ASTM 120, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Schedule 80 Nipples, Add</i>	20.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	42.86	12.64
			<i>For ASTM 120, Deduct</i>	-3.58	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	27.21	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	44.43	12.64
			<i>For ASTM 120, Deduct</i>	-3.82	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
			<i>For Schedule 80 Nipples, Add</i>	29.00	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple	61.83	16.29
			<i>For ASTM 120, Deduct</i>	-5.60	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Schedule 80 Nipples, Add</i>	42.57	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	91.14	20.27
			<i>For ASTM 120, Deduct</i>	-9.12	
			<i>For Work In Restricted Working Space, Add</i>	9.11	
			<i>For Schedule 80 Nipples, Add</i>	69.28	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple	122.17	24.48
			<i>For ASTM 120, Deduct</i>	-12.81	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Schedule 80 Nipples, Add</i>	97.39	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple	147.99	28.64
			<i>For ASTM 120, Deduct</i>	-15.76	
			<i>For Work In Restricted Working Space, Add</i>	12.87	
			<i>For Schedule 80 Nipples, Add</i>	119.80	
22 11 16 00-0291			Galvanized Steel Dielectric Nipples With Polyethylene Liner <small>(22 11 16 00-0013)</small>		
			See CSI section 22 11 16 00-0837 for dielectric unions.		
22 11 16 00-0292	EA		1/2" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	18.67	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0293	EA		1/2" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	19.03	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0294	EA		3/4" Threaded x 2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	19.36	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0295	EA		3/4" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	20.56	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0296	EA		3/4" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	21.80	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0297	EA		3/4" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	22.55	10.82
			<i>For Work In Restricted Working Space, Add</i>	4.89	
22 11 16 00-0298	EA		1" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	22.11	11.73
			<i>For Work In Restricted Working Space, Add</i>	5.26	
22 11 16 00-0299	EA		1" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	22.50	11.73
			<i>For Work In Restricted Working Space, Add</i>	5.26	
22 11 16 00-0300	EA		1" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	28.51	11.73
			<i>For Work In Restricted Working Space, Add</i>	5.26	
22 11 16 00-0301	EA		1-1/4" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	30.88	12.64
			<i>For Work In Restricted Working Space, Add</i>	5.71	
22 11 16 00-0302	EA		1-1/2" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	34.19	12.64
			<i>For Work In Restricted Working Space, Add</i>	5.71	
22 11 16 00-0303	EA		2" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	45.58	16.29
			<i>For Work In Restricted Working Space, Add</i>	7.34	
22 11 16 00-0304	EA		2-1/2" Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	54.41	20.27
			<i>For Work In Restricted Working Space, Add</i>	9.12	
22 11 16 00-0305	EA		3" Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	85.14	24.48
			<i>For Work In Restricted Working Space, Add</i>	11.04	
22 11 16 00-0306			Galvanized Malleable Iron Square Head Plugs <small>(22 11 16 00-0013)</small>		
22 11 16 00-0307	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.02	8.08
			<i>For Work In Restricted Working Space, Add</i>	3.65	
			<i>For 300 LB Rating, Add</i>	24.09	
22 11 16 00-0308	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.47	9.11
			<i>For Work In Restricted Working Space, Add</i>	4.08	
			<i>For 300 LB Rating, Add</i>	24.17	
22 11 16 00-0309	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	22.72	10.13
			<i>For Work In Restricted Working Space, Add</i>	4.55	
			<i>For 300 LB Rating, Add</i>	26.55	
22 11 16 00-0310	EA		1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug	28.78	11.50
			<i>For Work In Restricted Working Space, Add</i>	5.16	
			<i>For 300 LB Rating, Add</i>	40.44	
22 11 16 00-0311	EA		1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	34.99	12.87
			<i>For Work In Restricted Working Space, Add</i>	5.81	
			<i>For 300 LB Rating, Add</i>	54.24	
22 11 16 00-0312	EA		2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	44.47	16.40
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For 300 LB Rating, Add</i>	68.97	
22 11 16 00-0313	EA		2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	75.16	24.26
			<i>For Work In Restricted Working Space, Add</i>	10.93	
			<i>For 300 LB Rating, Add</i>	133.83	
22 11 16 00-0314	EA		3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	102.89	32.00
			<i>For Work In Restricted Working Space, Add</i>	14.39	
			<i>For 300 LB Rating, Add</i>	189.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA		4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	164.12 15.02 390.81	33.36
22 11 16 00-0316	EA		5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	261.51 15.67 714.65	34.86
22 11 16 00-0317	EA		6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	280.84 16.38 772.46	36.37
22 11 16 00-0318			Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0319	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	44.45 9.65	21.41
22 11 16 00-0320	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.84 10.25	22.77
22 11 16 00-0321	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	49.89 10.79	24.03
22 11 16 00-0322	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.23 11.00	24.48
22 11 16 00-0323	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.19 11.55	25.62
22 11 16 00-0324	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.17 12.14	26.99
22 11 16 00-0325	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	66.59 11.83	26.31
22 11 16 00-0326	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.39 12.37	27.44
22 11 16 00-0327	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	67.70 12.96	28.82
22 11 16 00-0328	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	68.32 13.71	30.52
22 11 16 00-0329	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	79.89 13.79	30.63
22 11 16 00-0330	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	79.34 14.33	31.89
22 11 16 00-0331	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	79.61 14.93	33.14
22 11 16 00-0332	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.12 15.68	34.85
22 11 16 00-0333	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	81.19 16.50	36.67
22 11 16 00-0334	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	111.65 18.77	41.68
22 11 16 00-0335	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	113.64 19.36	43.05
22 11 16 00-0336	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	116.15 20.12	44.64
22 11 16 00-0337	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	117.98 20.94	46.58
22 11 16 00-0338	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	119.03 22.90	50.90
22 11 16 00-0339	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	141.75 23.08	51.25
22 11 16 00-0340	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	143.73 23.68	52.61
22 11 16 00-0341	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	146.24 24.43	54.33
22 11 16 00-0342	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	147.72 25.25	56.15
22 11 16 00-0343	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	148.33 27.22	60.47
22 11 16 00-0344	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	166.45 31.65	70.38
22 11 16 00-0345	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	214.42 23.57	52.35
22 11 16 00-0346	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	216.29 24.14	53.63
22 11 16 00-0347	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	218.65 24.84	55.24
22 11 16 00-0348	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	221.23 25.62	56.96
22 11 16 00-0349	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	211.41 27.47	61.04
22 11 16 00-0350	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	241.32 31.64	70.37
22 11 16 00-0351	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	245.90 35.71	79.37
22 11 16 00-0352			Galvanized Malleable Iron Floor Flange (22 11 16 00-0013) Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.		
22 11 16 00-0353	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	70.27	41.62
22 11 16 00-0354	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	76.81	45.56



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 11 16 00-0355 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange.....	88.22	51.48
				22 11 16 00-0356 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	91.69	53.30
				22 11 16 00-0357 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	99.79	57.97
				22 11 16 00-0358 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....	107.48	60.47
		22 11 16 00-0359		Galvanized Cast Iron Flanges (22 11 16 00-0013)		
Note: Excludes bolt and gasket sets						
				22 11 16 00-0360 EA 3/4", 125 LB, Galvanized Cast Iron Flange.....	134.45	45.56
				For Work In Restricted Working Space, Add	20.50	
				22 11 16 00-0361 EA 1", 125 LB, Galvanized Cast Iron Flange.....	128.40	51.48
				For Work In Restricted Working Space, Add	23.16	
				22 11 16 00-0362 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange.....	106.97	53.30
				For Work In Restricted Working Space, Add	23.97	
				22 11 16 00-0363 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange.....	126.89	57.97
				For Work In Restricted Working Space, Add	26.08	
				22 11 16 00-0364 EA 2", 125 LB, Galvanized Cast Iron Flange.....	143.61	60.47
				For Work In Restricted Working Space, Add	27.22	
				22 11 16 00-0365 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange.....	166.81	70.04
				For Work In Restricted Working Space, Add	31.49	
				22 11 16 00-0366 EA 3", 125 LB, Galvanized Cast Iron Flange.....	300.23	88.83
				For Work In Restricted Working Space, Add	39.95	
				22 11 16 00-0367 EA 4", 125 LB, Galvanized Cast Iron Flange.....	399.12	114.46
				For Work In Restricted Working Space, Add	51.48	
				22 11 16 00-0368 EA 5", 125 LB, Galvanized Cast Iron Flange.....	561.47	136.23
				For Work In Restricted Working Space, Add	61.28	
				22 11 16 00-0369 EA 6", 125 LB, Galvanized Cast Iron Flange.....	616.45	156.50
				For Work In Restricted Working Space, Add	70.40	
				22 11 16 00-0370 EA 8", 125 LB, Galvanized Cast Iron Flange.....	566.68	178.87
				For Work In Restricted Working Space, Add	80.45	
		22 11 16 00-0371		Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013)		
Note: For use when connecting pipe to an existing in-place system.						
				22 11 16 00-0372 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	37.10	
				For Work In Restricted Working Space, Add	11.13	
				22 11 16 00-0373 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	40.80	
				For Work In Restricted Working Space, Add	12.24	
				22 11 16 00-0374 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	44.52	
				For Work In Restricted Working Space, Add	13.36	
				22 11 16 00-0375 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	48.22	
				For Work In Restricted Working Space, Add	14.47	
				22 11 16 00-0376 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.70	
				For Work In Restricted Working Space, Add	15.21	
				22 11 16 00-0377 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	53.17	
				For Work In Restricted Working Space, Add	15.95	
				22 11 16 00-0378 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	55.64	
				For Work In Restricted Working Space, Add	16.69	
				22 11 16 00-0379 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	58.12	
				For Work In Restricted Working Space, Add	17.44	
				22 11 16 00-0380 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.59	
				For Work In Restricted Working Space, Add	18.18	
				22 11 16 00-0381 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	65.53	
				For Work In Restricted Working Space, Add	19.66	
				22 11 16 00-0382 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	70.48	
				For Work In Restricted Working Space, Add	21.14	
		22 11 16 00-0383		Copper Pipe And Fittings (22 11 16)		
Note: Excludes hangers. See CSI section 22 11 16 00-0914 for pipe with fittings assembly.						
		22 11 16 00-0384		Copper Tube/Pipe (22 11 16 00-0383)		
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).						
		22 11 16 00-0385		Hard Drawn Type L Copper Tube/Pipe (22 11 16 00-0384)		
				22 11 16 00-0386 LF 1/4" Hard Drawn Type L Copper Tube/Pipe.....	5.97	2.79
				For Up To 20, Add	0.64	
				For >200, Deduct	-0.18	
				For Work In Restricted Working Space, Add	1.25	
				For Medical/Oxygen Service Tubing, Add	0.14	
				22 11 16 00-0387 LF 3/8" Hard Drawn Type L Copper Tube/Pipe.....	6.97	2.90
				For Up To 20, Add	0.76	
				For >200, Deduct	-0.26	
				For Work In Restricted Working Space, Add	1.30	
				For Medical/Oxygen Service Tubing, Add	0.21	
				22 11 16 00-0388 LF 1/2" Hard Drawn Type L Copper Tube/Pipe.....	7.66	3.02
				For Up To 20, Add	0.84	
				For >200, Deduct	-0.31	
				For Work In Restricted Working Space, Add	1.36	
				For Medical/Oxygen Service Tubing, Add	0.25	
				22 11 16 00-0389 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....	9.90	3.20
				For Up To 20, Add	1.12	
				For >200, Deduct	-0.51	
				For Work In Restricted Working Space, Add	1.44	
				For Medical/Oxygen Service Tubing, Add	0.41	

22 Plumbing
22 10 Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0390	LF		1" Hard Drawn Type L Copper Tube/Pipe	12.77	3.59
			<i>For Up To 20, Add</i>	1.46	
			<i>For >200, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	1.62	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.59	
22 11 16 00-0391	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe	18.17	5.35
			<i>For Up To 20, Add</i>	2.07	
			<i>For >200, Deduct</i>	-1.02	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.81	
22 11 16 00-0392	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe	22.01	5.98
			<i>For Up To 20, Add</i>	2.53	
			<i>For >200, Deduct</i>	-1.31	
			<i>For Work In Restricted Working Space, Add</i>	2.69	
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.04	
22 11 16 00-0393	LF		2" Hard Drawn Type L Copper Tube/Pipe	31.72	7.37
			<i>For Up To 20, Add</i>	3.69	
			<i>For >200, Deduct</i>	-2.07	
			<i>For Work In Restricted Working Space, Add</i>	3.32	
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.65	
22 11 16 00-0394	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe	55.88	8.67
			<i>For Up To 20, Add</i>	6.33	
			<i>For >200, Deduct</i>	-2.98	
			<i>For Work In Restricted Working Space, Add</i>	7.81	
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.39	
22 11 16 00-0395	LF		3" Hard Drawn Type L Copper Tube/Pipe	70.42	10.21
			<i>For Up To 20, Add</i>	8.04	
			<i>For >200, Deduct</i>	-3.98	
			<i>For Work In Restricted Working Space, Add</i>	9.18	
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.18	
22 11 16 00-0396	LF		4" Hard Drawn Type L Copper Tube/Pipe	105.51	11.53
			<i>For Up To 20, Add</i>	12.32	
			<i>For >200, Deduct</i>	-7.10	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
			<i>For Medical/Oxygen Service Tubing, Add</i>	5.68	
22 11 16 00-0397	LF		5" Hard Drawn Type L Copper Tube/Pipe	165.02	13.24
			<i>For Up To 20, Add</i>	19.64	
			<i>For >200, Deduct</i>	-12.53	
			<i>For Work In Restricted Working Space, Add</i>	11.91	
			<i>For Medical/Oxygen Service Tubing, Add</i>	10.03	
22 11 16 00-0398	LF		6" Hard Drawn Type L Copper Tube/Pipe	226.38	20.51
			<i>For Up To 20, Add</i>	26.76	
			<i>For >200, Deduct</i>	-16.49	
			<i>For Work In Restricted Working Space, Add</i>	18.45	
			<i>For Medical/Oxygen Service Tubing, Add</i>	13.19	
22 11 16 00-0399	LF		8" Hard Drawn Type L Copper Tube/Pipe	379.10	22.80
			<i>For Up To 20, Add</i>	45.68	
			<i>For >200, Deduct</i>	-31.07	
			<i>For Work In Restricted Working Space, Add</i>	20.51	
			<i>For Medical/Oxygen Service Tubing, Add</i>	24.86	
22 11 16 00-0400			Hard Drawn Type K Copper Tube/Pipe <small>(22 11 16 00-0384)</small>		
22 11 16 00-0401	LF		1/4" Hard Drawn Type K Copper Tube/Pipe	6.50	2.99
			<i>For Up To 20, Add</i>	0.70	
			<i>For >200, Deduct</i>	-0.20	
			<i>For Work In Restricted Working Space, Add</i>	1.34	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.16	
22 11 16 00-0402	LF		3/8" Hard Drawn Type K Copper Tube/Pipe	8.76	3.12
			<i>For Up To 20, Add</i>	0.97	
			<i>For >200, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	1.54	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.29	
22 11 16 00-0403	LF		1/2" Hard Drawn Type K Copper Tube/Pipe	9.26	3.24
			<i>For Up To 20, Add</i>	1.03	
			<i>For >200, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	1.50	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.34	
22 11 16 00-0404	LF		3/4" Hard Drawn Type K Copper Tube/Pipe	13.47	3.43
			<i>For Up To 20, Add</i>	1.54	
			<i>For >200, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	1.74	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.61	
22 11 16 00-0405	LF		1" Hard Drawn Type K Copper Tube/Pipe	16.36	3.87
			<i>For Up To 20, Add</i>	1.89	
			<i>For >200, Deduct</i>	-1.02	
			<i>For Work In Restricted Working Space, Add</i>	1.85	
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.82	
22 11 16 00-0406	LF		1-1/4" Hard Drawn Type K Copper Tube/Pipe	21.42	5.75
			<i>For Up To 20, Add</i>	2.46	
			<i>For >200, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	2.62	
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0407 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe.....	26.09	6.42
For Up To 20, Add	3.02	
For >200, Deduct	-1.63	
For Work In Restricted Working Space, Add	2.94	
For Medical/Oxygen Service Tubing, Add	1.30	
22 11 16 00-0408 LF 2" Hard Drawn Type K Copper Tube/Pipe	37.03	7.93
For Up To 20, Add	4.33	
For >200, Deduct	-2.50	
For Work In Restricted Working Space, Add	3.61	
For Medical/Oxygen Service Tubing, Add	2.00	
22 11 16 00-0409 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe.....	63.43	9.32
For Up To 20, Add	7.28	
For >200, Deduct	-3.73	
For Work In Restricted Working Space, Add	7.85	
For Medical/Oxygen Service Tubing, Add	2.98	
22 11 16 00-0410 LF 3" Hard Drawn Type K Copper Tube/Pipe	84.65	10.98
For Up To 20, Add	9.74	
For >200, Deduct	-5.10	
For Work In Restricted Working Space, Add	10.11	
For Medical/Oxygen Service Tubing, Add	4.08	
22 11 16 00-0411 LF 4" Hard Drawn Type K Copper Tube/Pipe	129.00	12.39
For Up To 20, Add	15.17	
For >200, Deduct	-9.08	
For Work In Restricted Working Space, Add	11.45	
For Medical/Oxygen Service Tubing, Add	7.27	
22 11 16 00-0412 LF 5" Hard Drawn Type K Copper Tube/Pipe	211.48	14.23
For Up To 20, Add	25.31	
For >200, Deduct	-16.64	
For Work In Restricted Working Space, Add	13.52	
For Medical/Oxygen Service Tubing, Add	13.31	
22 11 16 00-0413 LF 6" Hard Drawn Type K Copper Tube/Pipe	311.44	22.05
For Up To 20, Add	37.11	
For >200, Deduct	-23.88	
For Work In Restricted Working Space, Add	21.80	
For Medical/Oxygen Service Tubing, Add	19.10	
22 11 16 00-0414 LF 8" Hard Drawn Type K Copper Tube/Pipe	527.18	24.51
For Up To 20, Add	63.90	
For >200, Deduct	-44.71	
For Work In Restricted Working Space, Add	24.02	
For Medical/Oxygen Service Tubing, Add	35.77	
22 11 16 00-0415 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0384)		
22 11 16 00-0416 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	5.82	2.61
For Up To 20, Add	0.63	
For >200, Deduct	-0.21	
For Work In Restricted Working Space, Add	1.13	
22 11 16 00-0417 LF 1/2" Hard Drawn Type M Copper Tube/Pipe	6.20	2.72
For Up To 20, Add	0.68	
For >200, Deduct	-0.23	
For Work In Restricted Working Space, Add	1.17	
22 11 16 00-0418 LF 3/4" Hard Drawn Type M Copper Tube/Pipe	7.86	2.88
For Up To 20, Add	0.88	
For >200, Deduct	-0.37	
For Work In Restricted Working Space, Add	1.24	
22 11 16 00-0419 LF 1" Hard Drawn Type M Copper Tube/Pipe	10.36	3.24
For Up To 20, Add	1.18	
For >200, Deduct	-0.58	
For Work In Restricted Working Space, Add	1.38	
22 11 16 00-0420 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe	15.49	4.83
For Up To 20, Add	1.76	
For >200, Deduct	-0.84	
For Work In Restricted Working Space, Add	2.13	
22 11 16 00-0421 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe	19.72	5.38
For Up To 20, Add	2.26	
For >200, Deduct	-1.16	
For Work In Restricted Working Space, Add	2.45	
22 11 16 00-0422 LF 2" Hard Drawn Type M Copper Tube/Pipe	28.31	6.62
For Up To 20, Add	3.29	
For >200, Deduct	-1.82	
For Work In Restricted Working Space, Add	3.04	
22 11 16 00-0423 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe	50.97	7.80
For Up To 20, Add	5.76	
For >200, Deduct	-2.64	
For Work In Restricted Working Space, Add	7.38	
22 11 16 00-0424 LF 3" Hard Drawn Type M Copper Tube/Pipe	62.71	9.19
For Up To 20, Add	7.15	
For >200, Deduct	-3.51	
For Work In Restricted Working Space, Add	8.29	
22 11 16 00-0425 LF 4" Hard Drawn Type M Copper Tube/Pipe	97.92	10.38
For Up To 20, Add	11.43	
For >200, Deduct	-6.57	
For Work In Restricted Working Space, Add	9.67	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0426	LF		5" Hard Drawn Type M Copper Tube/Pipe	164.72	11.91
			<i>For Up To 20, Add</i>	19.66	
			<i>For >200, Deduct</i>	-12.75	
			<i>For Work In Restricted Working Space, Add</i>	11.16	
22 11 16 00-0427	LF		6" Hard Drawn Type M Copper Tube/Pipe	227.99	18.46
			<i>For Up To 20, Add</i>	27.06	
			<i>For >200, Deduct</i>	-17.04	
			<i>For Work In Restricted Working Space, Add</i>	17.29	
22 11 16 00-0428	LF		8" Hard Drawn Type M Copper Tube/Pipe	386.24	20.52
			<i>For Up To 20, Add</i>	46.69	
			<i>For >200, Deduct</i>	-32.28	
			<i>For Work In Restricted Working Space, Add</i>	19.02	
22 11 16 00-0429			Soft Drawn Type L Copper Tube (22 11 16 00-0384)		
22 11 16 00-0430	LF		1/4" Soft Drawn Type L Copper Tube	6.47	2.79
			<i>For Up To 20, Add</i>	0.70	
			<i>For >200, Deduct</i>	-0.23	
			<i>For Work In Restricted Working Space, Add</i>	1.25	
22 11 16 00-0431	LF		3/8" Soft Drawn Type L Copper Tube	7.94	2.90
			<i>For Up To 20, Add</i>	0.88	
			<i>For >200, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
22 11 16 00-0432	LF		1/2" Soft Drawn Type L Copper Tube	9.36	3.02
			<i>For Up To 20, Add</i>	1.06	
			<i>For >200, Deduct</i>	-0.48	
			<i>For Work In Restricted Working Space, Add</i>	1.36	
22 11 16 00-0433	LF		5/8" Soft Drawn Type L Copper Tube	10.86	3.12
			<i>For Up To 20, Add</i>	1.24	
			<i>For >200, Deduct</i>	-0.62	
			<i>For Work In Restricted Working Space, Add</i>	1.40	
22 11 16 00-0434	LF		3/4" Soft Drawn Type L Copper Tube	12.20	3.20
			<i>For Up To 20, Add</i>	1.40	
			<i>For >200, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	1.44	
22 11 16 00-0435	LF		1" Soft Drawn Type L Copper Tube	15.64	3.59
			<i>For Up To 20, Add</i>	1.82	
			<i>For >200, Deduct</i>	-1.02	
			<i>For Work In Restricted Working Space, Add</i>	1.62	
22 11 16 00-0436	LF		1-1/4" Soft Drawn Type L Copper Tube	21.50	5.35
			<i>For Up To 20, Add</i>	2.49	
			<i>For >200, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	2.41	
22 11 16 00-0437	LF		1-1/2" Soft Drawn Type L Copper Tube	27.22	5.98
			<i>For Up To 20, Add</i>	3.18	
			<i>For >200, Deduct</i>	-1.83	
			<i>For Work In Restricted Working Space, Add</i>	2.69	
22 11 16 00-0438	LF		2" Soft Drawn Type L Copper Tube	40.10	7.37
			<i>For Up To 20, Add</i>	4.74	
			<i>For >200, Deduct</i>	-2.91	
			<i>For Work In Restricted Working Space, Add</i>	3.32	
22 11 16 00-0439			Soft Drawn Type K Copper Tube (22 11 16 00-0384)		
22 11 16 00-0440	LF		1/4" Soft Drawn Type K Copper Tube	6.71	2.79
			<i>For Up To 20, Add</i>	0.73	
			<i>For >200, Deduct</i>	-0.26	
			<i>For Work In Restricted Working Space, Add</i>	1.25	
22 11 16 00-0441	LF		3/8" Soft Drawn Type K Copper Tube	8.69	2.90
			<i>For Up To 20, Add</i>	0.98	
			<i>For >200, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
22 11 16 00-0442	LF		1/2" Soft Drawn Type K Copper Tube	9.98	3.02
			<i>For Up To 20, Add</i>	1.13	
			<i>For >200, Deduct</i>	-0.55	
			<i>For Work In Restricted Working Space, Add</i>	1.36	
22 11 16 00-0443	LF		5/8" Soft Drawn Type K Copper Tube	11.16	3.12
			<i>For Up To 20, Add</i>	1.28	
			<i>For >200, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	1.40	
22 11 16 00-0444	LF		3/4" Soft Drawn Type K Copper Tube	14.90	3.20
			<i>For Up To 20, Add</i>	1.74	
			<i>For >200, Deduct</i>	-1.01	
			<i>For Work In Restricted Working Space, Add</i>	1.44	
22 11 16 00-0445	LF		1" Soft Drawn Type K Copper Tube	18.79	3.59
			<i>For Up To 20, Add</i>	2.21	
			<i>For >200, Deduct</i>	-1.34	
			<i>For Work In Restricted Working Space, Add</i>	1.62	
22 11 16 00-0446	LF		1-1/4" Soft Drawn Type K Copper Tube	23.80	5.35
			<i>For Up To 20, Add</i>	2.77	
			<i>For >200, Deduct</i>	-1.58	
			<i>For Work In Restricted Working Space, Add</i>	2.41	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0447	LF	1-1/2"	Soft Drawn Type K Copper Tube <i>For Up To 20, Add</i> <i>For >200, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.88 3.64 -2.19 2.69	5.98
22 11 16 00-0448	LF	2"	Soft Drawn Type K Copper Tube <i>For Up To 20, Add</i> <i>For >200, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	45.14 5.37 -3.41 3.32	7.37
22 11 16 00-0449	LF	2-1/2"	Soft Drawn Type K Copper Tube <i>For Up To 20, Add</i> <i>For >200, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	64.38 7.72 -5.11 3.98	8.83
22 11 16 00-0450	LF	3"	Soft Drawn Type K Copper Tube <i>For Up To 20, Add</i> <i>For >200, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	86.77 10.46 -7.11 4.69	10.43
22 11 16 00-0451	Copper And Brass Fittings (22 11 16 00-0383) Note: All fittings are based on 95/5 solder.				
22 11 16 00-0452	90 Degree Copper Elbows (22 11 16 00-0451)				
22 11 16 00-0453	EA	1/4"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	29.53 -2.71 3.71 1.92 7.42 3.95	16.50
22 11 16 00-0454	EA	3/8"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.76 -3.22 4.45 2.03 8.90 4.71	19.78
22 11 16 00-0455	EA	1/2"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	42.45 -4.16 6.12 0.66 12.24 6.20	27.20
22 11 16 00-0456	EA	3/4"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.40 -5.26 7.61 1.48 15.21 7.79	33.89
22 11 16 00-0457	EA	1"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.65 -6.51 9.09 3.62 18.18 9.54	40.44
22 11 16 00-0458	EA	1-1/4"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	79.08 -7.23 9.83 5.42 19.66 10.51	43.77
22 11 16 00-0459	EA	1-1/2"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	92.90 -8.23 10.76 8.47 21.52 11.82	47.85
22 11 16 00-0460	EA	2"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	118.97 -9.97 12.06 15.44 24.11 13.99	53.67
22 11 16 00-0461	EA	2-1/2"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	173.04 -12.75 12.30 24.60 16.85	54.66
22 11 16 00-0462	EA	3"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	226.34 -16.21 14.69 29.39 21.11	65.37
22 11 16 00-0463	EA	4"	90 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	450.46 -29.47 20.84 41.68 36.42	92.70

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0464	EA		5" 90 Degree Copper Elbow	1,495.23	126.87
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-84.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	28.53	
			<i>For Work In Restricted Working Space, Add</i>	57.06	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	93.78	
22 11 16 00-0465	EA		8" 90 Degree Copper Elbow	2,016.45	184.61
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-114.66	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	41.51	
			<i>For Work In Restricted Working Space, Add</i>	83.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	128.50	
22 11 16 00-0466	EA		8" 90 Degree Copper Elbow	6,805.04	246.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-358.70	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	55.35	
			<i>For Work In Restricted Working Space, Add</i>	110.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	377.15	
22 11 16 00-0467			90 Degree Brass Elbows (22 11 16 00-0451)		
22 11 16 00-0468	EA		1/2" Drop Ear 90 Degree Brass Elbow.....	51.14	27.20
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.12	
			<i>For Work In Restricted Working Space, Add</i>	12.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.64	
22 11 16 00-0469	EA		3/4" Drop Ear 90 Degree Brass Elbow.....	80.84	33.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.11	
22 11 16 00-0470	EA		1/2" Flanged Sink 90 Degree Brass Elbow	59.64	27.20
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.02	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.12	
			<i>For Work In Restricted Working Space, Add</i>	12.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.06	
22 11 16 00-0471	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	45.14	19.78
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	8.90	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.23	
22 11 16 00-0472	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	51.87	27.20
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.12	
			<i>For Work In Restricted Working Space, Add</i>	12.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.67	
22 11 16 00-0473	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	70.18	33.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.58	
22 11 16 00-0474	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	122.79	40.44
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.17	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.09	
			<i>For Work In Restricted Working Space, Add</i>	18.18	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.20	
22 11 16 00-0475			Reducing 90 Degree Copper Elbows (22 11 16 00-0451)		
22 11 16 00-0476	EA		1/2" Reducing 90 Degree Copper Elbow	54.15	27.20
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.12	
			<i>For Work In Restricted Working Space, Add</i>	12.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.79	
22 11 16 00-0477	EA		3/4" Reducing 90 Degree Copper Elbow	60.17	33.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.54	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.08	
22 11 16 00-0478	EA		1" Reducing 90 Degree Copper Elbow	77.97	40.44
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.09	
			<i>For Work In Restricted Working Space, Add</i>	18.18	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.96	
22 11 16 00-0479	EA		1-1/4" Reducing 90 Degree Copper Elbow.....	109.81	43.77
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.83	
			<i>For Work In Restricted Working Space, Add</i>	19.66	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.04	
22 11 16 00-0480	EA		1-1/2" Reducing 90 Degree Copper Elbow.....	129.90	47.85
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.08	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	21.52	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.67	
22 11 16 00-0481	EA		2" Reducing 90 Degree Copper Elbow	158.67	53.67
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.95	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.06	
			<i>For Work In Restricted Working Space, Add</i>	24.11	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.97	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0482 45 Degree Copper Elbows <small>(22 11 16 00-0451)</small>		
22 11 16 00-0483 EA 1/4" 45 Degree Copper Elbow	33.69	16.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.92	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.71	
For Street Fitting, Add	3.58	
For Work In Restricted Working Space, Add	7.42	
For Silver Solder Instead Of 95/5 Solder, Add	4.16	
22 11 16 00-0484 EA 3/8" 45 Degree Copper Elbow	37.36	19.78
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.35	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.45	
For Street Fitting, Add	3.07	
For Work In Restricted Working Space, Add	8.90	
For Silver Solder Instead Of 95/5 Solder, Add	4.84	
22 11 16 00-0485 EA 1/2" 45 Degree Copper Elbow	43.82	27.20
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.12	
For Street Fitting, Add	1.21	
For Work In Restricted Working Space, Add	12.24	
For Silver Solder Instead Of 95/5 Solder, Add	6.27	
22 11 16 00-0486 EA 3/4" 45 Degree Copper Elbow	55.87	33.89
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.33	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.61	
For Street Fitting, Add	2.07	
For Work In Restricted Working Space, Add	15.21	
For Silver Solder Instead Of 95/5 Solder, Add	7.86	
22 11 16 00-0487 EA 1" 45 Degree Copper Elbow	73.49	40.44
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.09	
For Street Fitting, Add	5.16	
For Work In Restricted Working Space, Add	18.18	
For Silver Solder Instead Of 95/5 Solder, Add	9.73	
22 11 16 00-0488 EA 1-1/4" 45 Degree Copper Elbow	83.01	43.77
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.83	
For Street Fitting, Add	6.99	
For Work In Restricted Working Space, Add	19.66	
For Silver Solder Instead Of 95/5 Solder, Add	10.70	
22 11 16 00-0489 EA 1-1/2" 45 Degree Copper Elbow	93.17	47.85
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.76	
For Street Fitting, Add	8.58	
For Work In Restricted Working Space, Add	21.52	
For Silver Solder Instead Of 95/5 Solder, Add	11.83	
22 11 16 00-0490 EA 2" 45 Degree Copper Elbow	116.14	53.67
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.83	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.06	
For Work In Restricted Working Space, Add	24.11	
For Silver Solder Instead Of 95/5 Solder, Add	13.84	
22 11 16 00-0491 EA 2-1/2" 45 Degree Copper Elbow	171.94	54.66
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.30	
For Work In Restricted Working Space, Add	24.60	
For Silver Solder Instead Of 95/5 Solder, Add	16.80	
22 11 16 00-0492 EA 3" 45 Degree Copper Elbow	231.40	65.37
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.69	
For Work In Restricted Working Space, Add	29.39	
For Silver Solder Instead Of 95/5 Solder, Add	21.37	
22 11 16 00-0493 EA 4" 45 Degree Copper Elbow	423.50	92.70
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-28.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.84	
For Work In Restricted Working Space, Add	41.68	
For Silver Solder Instead Of 95/5 Solder, Add	35.07	
22 11 16 00-0494 EA 5" 45 Degree Copper Elbow	1,292.25	126.87
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-74.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	28.53	
For Work In Restricted Working Space, Add	57.06	
For Silver Solder Instead Of 95/5 Solder, Add	83.63	
22 11 16 00-0495 EA 6" 45 Degree Copper Elbow	2,013.48	184.61
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-114.51	
For Brazed Fittings Instead Of 95/5 Solder, Add	41.51	
For Work In Restricted Working Space, Add	83.02	
For Silver Solder Instead Of 95/5 Solder, Add	128.35	
22 11 16 00-0496 EA 8" 45 Degree Copper Elbow	6,270.36	246.11
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-331.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	55.35	
For Work In Restricted Working Space, Add	110.70	
For Silver Solder Instead Of 95/5 Solder, Add	350.42	

22 11 16 00-0497 Straight Copper And Brass Tees (22 11 16 00-0451)

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0498	EA		1/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.16 -4.21 5.57 11.13 6.07	24.73
22 11 16 00-0499	EA		3/8" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.62 -4.86 6.68 13.36 7.08	29.68
22 11 16 00-0500	EA		1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	64.66 -6.32 9.27 18.55 9.42	41.30
22 11 16 00-0501	EA		3/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.44 -8.01 11.50 23.00 11.84	51.19
22 11 16 00-0502	EA		1" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	111.85 -10.17 13.73 27.45 14.74	61.09
22 11 16 00-0503	EA		1-1/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	127.28 -11.31 14.84 29.68 16.26	66.03
22 11 16 00-0504	EA		1-1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	150.47 -12.90 16.14 32.27 18.28	71.72
22 11 16 00-0505	EA		2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	189.37 -15.53 18.18 36.35 21.59	80.87
22 11 16 00-0506	EA		2-1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	285.27 -20.41 18.45 36.90 26.56	82.00
22 11 16 00-0507	EA		3" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	395.98 -27.20 22.21 44.42 34.60	98.74
22 11 16 00-0508	EA		4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	807.31 -50.73 31.09 62.18 61.09	138.26
22 11 16 00-0509	EA		5" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,245.09 -126.43 42.54 85.07 140.61	189.16
22 11 16 00-0510	EA		6" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3,097.04 -175.64 62.35 124.70 196.42	277.31
22 11 16 00-0511	EA		8" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10,896.72 -572.51 83.02 166.05 600.19	369.23
22 11 16 00-0512	EA		1/2" Cast Bronze Drop Ear Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	79.25 -7.05 9.27 18.55 10.14	41.30
22 11 16 00-0513			Reducing Copper Tees (22 11 16 00-0451)		
22 11 16 00-0514	EA		3/8" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.58 -4.76 5.94 11.87 6.74	26.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0515 EA 1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.73 -6.27 8.35 16.69 9.05	37.10
22 11 16 00-0516 EA 3/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.90 -7.53 10.76 21.52 11.12	47.85
22 11 16 00-0517 EA 1" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	109.38 -9.80 12.98 25.97 14.13	57.74
22 11 16 00-0518 EA 1-1/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	128.59 -11.13 14.10 28.19 15.83	62.69
22 11 16 00-0519 EA 1-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	151.58 -12.71 15.40 30.79 17.84	68.51
22 11 16 00-0520 EA 2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	185.75 -15.04 17.25 34.50 20.79	76.67
22 11 16 00-0521 EA 2-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	296.21 -20.73 17.77 35.53 26.65	79.03
22 11 16 00-0522 EA 3" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	428.59 -28.26 20.50 41.00 35.10	91.11
22 11 16 00-0523 EA 4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	783.11 -47.58 25.28 50.57 56.01	112.41
22 11 16 00-0524 Copper Couplings (22 11 16 00-0451)		
22 11 16 00-0525 EA 1/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.69 -2.52 3.71 7.42 3.76	16.50
22 11 16 00-0526 EA 3/8" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	30.96 -3.03 4.45 8.90 4.52	19.78
22 11 16 00-0527 EA 1/2" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.85 -4.13 6.12 12.24 6.17	27.20
22 11 16 00-0528 EA 3/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.85 -5.18 7.61 15.21 7.71	33.89
22 11 16 00-0529 EA 1" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	64.84 -6.27 9.09 18.18 9.30	40.44
22 11 16 00-0530 EA 1-1/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	73.04 -6.93 9.83 19.66 10.21	43.77
22 11 16 00-0531 EA 1-1/2" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	81.64 -7.67 10.76 21.52 11.25	47.85

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0532	EA		2" Copper Coupling.....	96.88	53.17
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.06	
			<i>For Work In Restricted Working Space, Add</i>	24.11	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.88	
22 11 16 00-0533	EA		2-1/2" Copper Coupling.....	118.27	51.70
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.79	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	23.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.66	
22 11 16 00-0534	EA		3" Copper Coupling.....	148.95	62.63
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.01	
			<i>For Work In Restricted Working Space, Add</i>	28.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.79	
22 11 16 00-0535	EA		4" Copper Coupling.....	247.68	84.28
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-18.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.79	
			<i>For Work In Restricted Working Space, Add</i>	37.58	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.91	
22 11 16 00-0536	EA		5" Copper Coupling.....	425.91	153.75
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-29.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	25.62	
			<i>For Work In Restricted Working Space, Add</i>	51.25	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	38.38	
22 11 16 00-0537	EA		6" Copper Coupling.....	672.09	167.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-46.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	37.58	
			<i>For Work In Restricted Working Space, Add</i>	75.17	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	58.66	
22 11 16 00-0538	EA		8" Copper Coupling.....	1,698.97	221.51
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-101.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	49.88	
			<i>For Work In Restricted Working Space, Add</i>	99.77	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	118.20	
22 11 16 00-0539			Reducing Copper Couplings (22 11 16 00-0451)		
22 11 16 00-0540	EA		3/8" Reducing Copper Coupling.....	26.83	16.45
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.71	
			<i>For Work In Restricted Working Space, Add</i>	7.42	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.81	
22 11 16 00-0541	EA		1/2" Reducing Copper Coupling.....	37.44	23.50
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.29	
			<i>For Work In Restricted Working Space, Add</i>	10.57	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.40	
22 11 16 00-0542	EA		3/4" Reducing Copper Coupling.....	49.55	30.54
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.86	
			<i>For Work In Restricted Working Space, Add</i>	13.73	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.05	
22 11 16 00-0543	EA		1" Reducing Copper Coupling.....	62.50	37.10
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.91	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.35	
			<i>For Work In Restricted Working Space, Add</i>	16.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.69	
22 11 16 00-0544	EA		1-1/4" Reducing Copper Coupling.....	72.63	42.04
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.79	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.46	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.94	
22 11 16 00-0545	EA		1-1/2" Reducing Copper Coupling.....	84.45	45.75
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.29	
			<i>For Work In Restricted Working Space, Add</i>	20.59	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.09	
22 11 16 00-0546	EA		2" Reducing Copper Coupling.....	100.52	50.70
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.83	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.63	
22 11 16 00-0547	EA		2-1/2" Reducing Copper Coupling.....	138.57	52.05
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.83	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.70	
			<i>For Work In Restricted Working Space, Add</i>	23.40	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.73	
22 11 16 00-0548	EA		3" Reducing Copper Coupling.....	164.84	60.36
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.50	
			<i>For Work In Restricted Working Space, Add</i>	26.99	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.24	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0549	EA			4" Reducing Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	267.07 -19.28 17.77 35.53 25.20	79.03
22 11 16 00-0550	EA			5" Reducing Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	746.37 -45.58 24.77 49.54 53.83	110.13
22 11 16 00-0551	EA			6" Reducing Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,122.14 -67.21 33.31 66.62 78.32	148.05
22 11 16 00-0552	EA			8" Reducing Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,231.47 -127.75 48.51 97.03 143.92	215.74
22 11 16 00-0553 Male Copper Adapters (22 11 16 00-0451)						
22 11 16 00-0554	EA			1/4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.70 -3.32 3.71 7.42 4.56	16.07
22 11 16 00-0555	EA			3/8" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	38.14 -3.39 4.45 8.90 4.88	19.78
22 11 16 00-0556	EA			1/2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	40.53 -3.88 5.57 11.13 5.74	24.73
22 11 16 00-0557	EA			3/4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	51.56 -4.87 6.86 13.73 7.15	30.92
22 11 16 00-0558	EA			1" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	67.94 -6.06 7.98 15.95 8.71	35.85
22 11 16 00-0559	EA			1-1/4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.32 -7.26 9.27 18.55 10.35	40.80
22 11 16 00-0560	EA			1-1/2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	95.64 -8.31 10.57 21.15 11.83	46.99
22 11 16 00-0561	EA			2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	132.85 -11.16 13.54 27.08 15.67	59.98
22 11 16 00-0562	EA			2-1/2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	279.12 -19.77 17.44 34.87 25.58	77.90
22 11 16 00-0563	EA			3" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	370.52 -26.27 23.23 46.46 34.01	103.92
22 11 16 00-0564	EA			4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	563.51 -39.11 32.80 65.60 50.04	145.78
22 11 16 00-0565 Female Copper Adapters (22 11 16 00-0451)						
22 11 16 00-0566	EA			1/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.57 -3.02 3.71 7.42 4.25	16.07

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22 10 Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0567	EA		3/8" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	41.02 -3.54 4.45 8.90 5.02	19.78
22 11 16 00-0568	EA		1/2" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	42.59 -3.98 5.57 11.13 5.84	24.73
22 11 16 00-0569	EA		3/4" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	53.25 -4.95 6.86 13.73 7.24	30.92
22 11 16 00-0570	EA		1" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	70.32 -6.17 7.98 15.95 8.83	35.85
22 11 16 00-0571	EA		1-1/4" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	86.97 -7.44 9.27 18.55 10.53	40.80
22 11 16 00-0572	EA		1-1/2" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	109.87 -9.02 10.57 21.15 12.54	46.99
22 11 16 00-0573	EA		2" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	143.69 -11.70 13.54 27.08 16.21	59.98
22 11 16 00-0574	EA		2-1/2" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	336.88 -22.20 16.06 32.12 27.55	71.75
22 11 16 00-0575	EA		3" Female Copper Adapter For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	542.03 -34.85 23.23 46.46 42.59	103.92
22 11 16 00-0576	Wrot Copper, Solder Union (22 11 16 00-0451)				
22 11 16 00-0577	EA		1/4" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	42.48 -3.61 4.45 8.90 5.09	19.78
22 11 16 00-0578	EA		3/8" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	49.03 -4.24 5.38 10.76 6.04	23.87
22 11 16 00-0579	EA		1/2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.67 -4.86 6.68 13.36 7.09	29.68
22 11 16 00-0580	EA		3/4" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	60.72 -5.57 7.61 15.21 8.11	33.89
22 11 16 00-0581	EA		1" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	77.81 -6.92 9.09 18.18 9.95	40.44
22 11 16 00-0582	EA		1-1/4" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	91.71 -7.92 10.02 20.03 11.26	44.52
22 11 16 00-0583	EA		1-1/2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	109.35 -9.18 11.13 22.26 12.89	49.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0584 EA 2" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	148.97 -11.90 13.35 26.71 16.35	59.35
22 11 16 00-0585 EA 2-1/2" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	261.41 -17.97 14.69 29.39 22.87	65.37
22 11 16 00-0586 EA 3" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	561.92 -35.04 20.84 41.68 41.99	92.70
22 11 16 00-0587 Cast Bronze, Solder Union (22 11 16 00-0451)		
22 11 16 00-0588 EA 1/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.19 -3.84 4.45 8.90 5.33	19.78
22 11 16 00-0589 EA 3/8" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.49 -4.47 5.38 10.76 6.26	23.87
22 11 16 00-0590 EA 1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.91 -4.92 6.68 13.36 7.15	29.68
22 11 16 00-0591 EA 3/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.47 -5.66 7.61 15.21 8.19	33.89
22 11 16 00-0592 EA 1" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	80.85 -7.07 9.09 18.18 10.10	40.44
22 11 16 00-0593 EA 1-1/4" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	100.02 -8.34 10.02 20.03 11.68	44.52
22 11 16 00-0594 EA 1-1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	118.03 -9.61 11.13 22.26 13.32	49.47
22 11 16 00-0595 EA 2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	163.74 -12.64 13.35 26.71 17.09	59.35
22 11 16 00-0596 EA 2-1/2" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	261.40 -17.97 14.69 29.39 22.87	65.37
22 11 16 00-0597 EA 3" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	561.92 -35.04 20.84 41.68 41.99	92.70
22 11 16 00-0598 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0451)		
22 11 16 00-0599 EA 1/4" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.57 -4.16 4.45 8.90 5.65	19.78
22 11 16 00-0600 EA 3/8" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	60.57 -4.82 5.38 10.76 6.61	23.87
22 11 16 00-0601 EA 1/2" Cast Bronze, Solder X Female Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	64.15 -5.43 6.68 13.36 7.66	29.68

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0602	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	77.46	33.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.41	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.94	
22 11 16 00-0603	EA		1" Cast Bronze, Solder X Female Threaded Union.....	116.25	40.44
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.09	
			<i>For Work In Restricted Working Space, Add</i>	18.18	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.87	
22 11 16 00-0604	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	170.50	44.52
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.02	
			<i>For Work In Restricted Working Space, Add</i>	20.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.20	
22 11 16 00-0605	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	205.60	49.47
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.99	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.13	
			<i>For Work In Restricted Working Space, Add</i>	22.26	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.70	
22 11 16 00-0606	EA		2" Cast Bronze, Solder X Female Threaded Union.....	311.47	59.35
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.35	
			<i>For Work In Restricted Working Space, Add</i>	26.71	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.48	
22 11 16 00-0607	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	519.62	65.37
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-30.88	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.69	
			<i>For Work In Restricted Working Space, Add</i>	29.39	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.78	
22 11 16 00-0608			Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0451)		
22 11 16 00-0609	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	47.88	19.78
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.88	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	8.90	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.36	
22 11 16 00-0610	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	57.09	23.87
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.38	
			<i>For Work In Restricted Working Space, Add</i>	10.76	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.44	
22 11 16 00-0611	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	60.02	29.68
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.68	
			<i>For Work In Restricted Working Space, Add</i>	13.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.45	
22 11 16 00-0612	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	73.96	33.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.77	
22 11 16 00-0613	EA		1" Cast Bronze, Solder X Male Threaded Union.....	117.85	40.44
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.92	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.09	
			<i>For Work In Restricted Working Space, Add</i>	18.18	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.95	
22 11 16 00-0614	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	137.80	44.52
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.02	
			<i>For Work In Restricted Working Space, Add</i>	20.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.57	
22 11 16 00-0615	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	148.80	49.47
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.15	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.13	
			<i>For Work In Restricted Working Space, Add</i>	22.26	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.86	
22 11 16 00-0616	EA		2" Cast Bronze, Solder X Male Threaded Union.....	203.63	59.35
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.35	
			<i>For Work In Restricted Working Space, Add</i>	26.71	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.08	
22 11 16 00-0617	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	433.79	65.37
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.69	
			<i>For Work In Restricted Working Space, Add</i>	29.39	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.48	
22 11 16 00-0618			Copper Caps (22 11 16 00-0451)		
22 11 16 00-0619	EA		1/4" Copper Cap.....	9.62	5.44
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.22	
			<i>For Work In Restricted Working Space, Add</i>	2.45	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0620 EA 3/8" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.12 -1.10 1.47 2.94 1.59	6.43
22 11 16 00-0621 EA 1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.66 -1.41 2.02 4.04 2.08	8.91
22 11 16 00-0622 EA 3/4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.97 -1.79 2.51 5.02 2.62	11.01
22 11 16 00-0623 EA 1" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.25 -2.26 3.00 6.00 3.26	13.23
22 11 16 00-0624 EA 1-1/4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	28.67 -2.52 3.24 6.49 3.60	14.22
22 11 16 00-0625 EA 1-1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	33.91 -2.88 3.55 7.10 4.06	15.58
22 11 16 00-0626 EA 2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	43.36 -3.39 3.66 7.33 4.61	16.18
22 11 16 00-0627 EA 2-1/2" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	96.91 -6.28 4.31 8.61 7.72	18.90
22 11 16 00-0628 EA 3" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	134.43 -8.56 5.51 11.02 10.39	24.26
22 11 16 00-0629 EA 4" Copper Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	239.97 -14.78 8.34 16.67 17.56	36.67
22 11 16 00-0630 EA 5" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,381.71 -73.37 12.84 25.68 77.64	56.49
22 11 16 00-0631 EA 6" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,706.87 -141.57 18.68 37.36 147.80	82.23
22 11 16 00-0632 EA 8" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3,443.43 -180.47 24.91 49.82 188.78	109.56
22 11 16 00-0633 Copper Crosses (22 11 16 00-0451)		
22 11 16 00-0634 EA 1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	94.03 -8.46 11.27 22.55 12.22	50.12
22 11 16 00-0635 EA 3/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	130.06 -11.17 14.01 28.02 15.84	62.30
22 11 16 00-0636 EA 1" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	173.90 -14.28 16.74 33.48 19.86	74.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0637	EA		1-1/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	210.25 -16.55 18.11 36.22 22.58	80.52
22 11 16 00-0638	EA		1-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	259.71 -19.59 19.82 39.63 26.20	88.03
22 11 16 00-0639	EA		2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	389.12 -26.86 22.21 44.42 34.26	98.74
22 11 16 00-0640	EA		2-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	719.69 -44.18 24.60 49.20 52.38	109.33
22 11 16 00-0641			Cast Bronze Crosses (22 11 16 00-0451)		
22 11 16 00-0642	EA		3/8" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	79.81 -6.72 8.20 16.40 9.46	36.44
22 11 16 00-0643	EA		1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	97.80 -8.65 11.27 22.55 12.41	50.12
22 11 16 00-0644	EA		3/4" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	137.39 -11.54 14.01 28.02 16.21	62.30
22 11 16 00-0645	EA		1" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	186.34 -14.90 16.74 33.48 20.48	74.36
22 11 16 00-0646	EA		1-1/4" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	228.15 -17.44 18.11 36.22 23.48	80.52
22 11 16 00-0647	EA		1-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	285.23 -20.87 19.82 39.63 27.47	88.03
22 11 16 00-0648	EA		2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	495.98 -32.20 22.21 44.42 39.60	98.74
22 11 16 00-0649	EA		2-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	830.83 -49.74 24.60 49.20 57.94	109.33
22 11 16 00-0650			Flexible Corrugated Copper Supply Line (22 11 16 00-0451)		
22 11 16 00-0651	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	81.03	33.89
22 11 16 00-0652	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	84.68	33.89
22 11 16 00-0653	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	74.47	33.89
22 11 16 00-0654	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	78.60	33.89
22 11 16 00-0655	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	82.25	33.89
22 11 16 00-0656	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	84.68	33.89
22 11 16 00-0657			Crimped Copper Fittings (22 11 16 00-0383) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0658			Crimped Copper 90 Degree Elbows (22 11 16 00-0657)		
22 11 16 00-0659	EA		1/2" Crimped Copper 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	28.26 6.68	14.84
22 11 16 00-0660	EA		3/4" Crimped Copper 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	35.55 7.61	16.94
22 11 16 00-0661	EA		1" Crimped Copper 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	50.71 9.09	20.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0662 EA 1-1/4" Crimped Copper 90 Degree Elbow.....	74.63	22.25
For Work In Restricted Working Space, Add	10.02	
22 11 16 00-0663 EA 1-1/2" Crimped Copper 90 Degree Elbow.....	115.18	24.73
For Work In Restricted Working Space, Add	11.13	
22 11 16 00-0664 EA 2" Crimped Copper 90 Degree Elbow.....	153.04	29.68
For Work In Restricted Working Space, Add	13.36	
22 11 16 00-0665 EA 2-1/2" Crimped Copper 90 Degree Elbow.....	367.15	34.62
For Work In Restricted Working Space, Add	15.58	
22 11 16 00-0666 EA 3" Crimped Copper 90 Degree Elbow.....	458.39	41.18
For Work In Restricted Working Space, Add	18.55	
22 11 16 00-0667 EA 4" Crimped Copper 90 Degree Elbow.....	572.25	54.40
For Work In Restricted Working Space, Add	24.48	
22 11 16 00-0668 Crimped Copper 45 Degree Elbows (22 11 16 00-0657)		
22 11 16 00-0669 EA 1/2" Crimped Copper 45 Degree Elbow.....	29.26	14.84
For Work In Restricted Working Space, Add	6.68	
22 11 16 00-0670 EA 3/4" Crimped Copper 45 Degree Elbow.....	33.95	16.94
For Work In Restricted Working Space, Add	7.61	
22 11 16 00-0671 EA 1" Crimped Copper 45 Degree Elbow.....	57.93	20.15
For Work In Restricted Working Space, Add	9.09	
22 11 16 00-0672 EA 1-1/4" Crimped Copper 45 Degree Elbow.....	73.03	22.25
For Work In Restricted Working Space, Add	10.02	
22 11 16 00-0673 EA 1-1/2" Crimped Copper 45 Degree Elbow.....	101.37	24.73
For Work In Restricted Working Space, Add	11.13	
22 11 16 00-0674 EA 2" Crimped Copper 45 Degree Elbow.....	134.42	29.68
For Work In Restricted Working Space, Add	13.36	
22 11 16 00-0675 EA 2-1/2" Crimped Copper 45 Degree Elbow.....	260.16	34.62
For Work In Restricted Working Space, Add	15.58	
22 11 16 00-0676 EA 3" Crimped Copper 45 Degree Elbow.....	359.30	41.18
For Work In Restricted Working Space, Add	18.55	
22 11 16 00-0677 EA 4" Crimped Copper 45 Degree Elbow.....	494.75	54.40
For Work In Restricted Working Space, Add	24.48	
22 11 16 00-0678 Crimped Copper Straight Tees (22 11 16 00-0657)		
22 11 16 00-0679 EA 1/2" Crimped Copper Straight Tee.....	42.59	22.25
For Work In Restricted Working Space, Add	10.02	
22 11 16 00-0680 EA 3/4" Crimped Copper Straight Tee.....	60.11	29.30
For Work In Restricted Working Space, Add	13.17	
22 11 16 00-0681 EA 1" Crimped Copper Straight Tee.....	78.07	32.52
For Work In Restricted Working Space, Add	14.65	
22 11 16 00-0682 EA 1-1/4" Crimped Copper Straight Tee.....	99.53	33.39
For Work In Restricted Working Space, Add	15.02	
22 11 16 00-0683 EA 1-1/2" Crimped Copper Straight Tee.....	152.98	37.96
For Work In Restricted Working Space, Add	17.06	
22 11 16 00-0684 EA 2" Crimped Copper Straight Tee.....	185.49	44.52
For Work In Restricted Working Space, Add	20.03	
22 11 16 00-0685 EA 2-1/2" Crimped Copper Straight Tee.....	467.34	51.94
For Work In Restricted Working Space, Add	23.37	
22 11 16 00-0686 EA 3" Crimped Copper Straight Tee.....	579.53	61.82
For Work In Restricted Working Space, Add	27.82	
22 11 16 00-0687 EA 4" Crimped Copper Straight Tee.....	805.47	81.61
For Work In Restricted Working Space, Add	36.73	
22 11 16 00-0688 Crimped Copper Reducing Tees (22 11 16 00-0657)		
22 11 16 00-0689 EA 3/4" Crimped Copper Reducing Tee.....	56.80	21.14
For Work In Restricted Working Space, Add	9.53	
22 11 16 00-0690 EA 1" Crimped Copper Reducing Tee.....	86.12	27.82
For Work In Restricted Working Space, Add	12.50	
22 11 16 00-0691 EA 1-1/4" Crimped Copper Reducing Tee.....	91.61	30.92
For Work In Restricted Working Space, Add	13.91	
22 11 16 00-0692 EA 1-1/2" Crimped Copper Reducing Tee.....	132.91	31.78
For Work In Restricted Working Space, Add	14.28	
22 11 16 00-0693 EA 2" Crimped Copper Reducing Tee.....	161.96	35.99
For Work In Restricted Working Space, Add	16.21	
22 11 16 00-0694 EA 2-1/2" Crimped Copper Reducing Tee.....	519.30	40.80
For Work In Restricted Working Space, Add	18.55	
22 11 16 00-0695 EA 3" Crimped Copper Reducing Tee.....	634.23	49.47
For Work In Restricted Working Space, Add	22.26	
22 11 16 00-0696 EA 4" Crimped Copper Reducing Tee.....	736.09	65.90
For Work In Restricted Working Space, Add	29.68	
22 11 16 00-0697 Crimped Copper Couplings (22 11 16 00-0657)		
22 11 16 00-0698 EA 1/2" Crimped Copper Coupling.....	27.66	14.84
For Work In Restricted Working Space, Add	6.68	
22 11 16 00-0699 EA 3/4" Crimped Copper Coupling.....	33.56	16.94
For Work In Restricted Working Space, Add	7.61	
22 11 16 00-0700 EA 1" Crimped Copper Coupling.....	46.89	20.15
For Work In Restricted Working Space, Add	9.09	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0701	EA		1-1/4" Crimped Copper Coupling	54.02	22.25
			<i>For Work In Restricted Working Space, Add</i>	10.02	
22 11 16 00-0702	EA		1-1/2" Crimped Copper Coupling	75.54	24.73
			<i>For Work In Restricted Working Space, Add</i>	11.13	
22 11 16 00-0703	EA		2" Crimped Copper Coupling	93.58	29.68
			<i>For Work In Restricted Working Space, Add</i>	13.36	
22 11 16 00-0704	EA		2-1/2" Crimped Copper Coupling	208.93	34.62
			<i>For Work In Restricted Working Space, Add</i>	15.58	
22 11 16 00-0705	EA		3" Crimped Copper Coupling	261.75	41.18
			<i>For Work In Restricted Working Space, Add</i>	18.55	
22 11 16 00-0706	EA		4" Crimped Copper Coupling	359.23	54.40
			<i>For Work In Restricted Working Space, Add</i>	24.48	
22 11 16 00-0707			Crimped Copper Reducing Couplings (22 11 16 00-0657)		
22 11 16 00-0708	EA		3/4" Crimped Copper Reducing Coupling	45.77	14.10
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-0709	EA		1" Crimped Copper Reducing Coupling	52.35	16.07
			<i>For Work In Restricted Working Space, Add</i>	7.23	
22 11 16 00-0710	EA		1-1/4" Crimped Copper Reducing Coupling	69.86	19.16
			<i>For Work In Restricted Working Space, Add</i>	8.64	
22 11 16 00-0711	EA		1-1/2" Crimped Copper Reducing Coupling	92.24	21.14
			<i>For Work In Restricted Working Space, Add</i>	9.53	
22 11 16 00-0712	EA		2" Crimped Copper Reducing Coupling	103.31	23.50
			<i>For Work In Restricted Working Space, Add</i>	10.57	
22 11 16 00-0713	EA		2-1/2" Crimped Copper FTG x C Reducing Coupling	227.50	28.07
			<i>For Work In Restricted Working Space, Add</i>	12.61	
22 11 16 00-0714	EA		3" Crimped Copper FTG x C Reducing Coupling	286.02	33.02
			<i>For Work In Restricted Working Space, Add</i>	14.84	
22 11 16 00-0715	EA		4" Crimped Copper FTG x C Reducing Coupling	370.73	43.65
			<i>For Work In Restricted Working Space, Add</i>	19.66	
22 11 16 00-0716			Crimped Copper Male Adapters (22 11 16 00-0657)		
22 11 16 00-0717	EA		1/2" Crimped Copper Male Adapter	28.87	14.84
			<i>For Work In Restricted Working Space, Add</i>	6.68	
22 11 16 00-0718	EA		3/4" Crimped Copper Male Adapter	37.35	16.94
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-0719	EA		1" Crimped Copper Male Adapter	52.31	20.15
			<i>For Work In Restricted Working Space, Add</i>	9.09	
22 11 16 00-0720	EA		1-1/4" Crimped Copper Male Adapter	81.63	22.25
			<i>For Work In Restricted Working Space, Add</i>	10.02	
22 11 16 00-0721	EA		1-1/2" Crimped Copper Male Adapter	104.77	24.73
			<i>For Work In Restricted Working Space, Add</i>	11.13	
22 11 16 00-0722	EA		2" Crimped Copper Male Adapter	174.85	29.68
			<i>For Work In Restricted Working Space, Add</i>	13.36	
22 11 16 00-0723	EA		2-1/2" Crimped Copper Male Adapter	367.15	34.62
			<i>For Work In Restricted Working Space, Add</i>	15.58	
22 11 16 00-0724	EA		3" Crimped Copper Male Adapter	458.39	41.18
			<i>For Work In Restricted Working Space, Add</i>	18.55	
22 11 16 00-0725	EA		4" Crimped Copper Male Adapter	540.65	54.40
			<i>For Work In Restricted Working Space, Add</i>	24.48	
22 11 16 00-0726			Crimped Copper Female Adapters (22 11 16 00-0657)		
22 11 16 00-0727	EA		1/2" Crimped Copper Female Adapter	30.25	14.84
			<i>For Work In Restricted Working Space, Add</i>	6.68	
22 11 16 00-0728	EA		3/4" Crimped Copper Female Adapter	38.37	16.94
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-0729	EA		1" Crimped Copper Female Adapter	54.32	20.15
			<i>For Work In Restricted Working Space, Add</i>	9.09	
22 11 16 00-0730	EA		1-1/4" Crimped Copper Female Adapter	87.65	22.25
			<i>For Work In Restricted Working Space, Add</i>	10.02	
22 11 16 00-0731	EA		1-1/2" Crimped Copper Female Adapter	115.99	24.73
			<i>For Work In Restricted Working Space, Add</i>	11.13	
22 11 16 00-0732	EA		2" Crimped Copper Female Adapter	178.46	29.68
			<i>For Work In Restricted Working Space, Add</i>	13.36	
22 11 16 00-0733			Crimped Copper Caps (22 11 16 00-0657)		
22 11 16 00-0734	EA		1/2" Crimped Copper Cap	22.74	7.42
			<i>For Work In Restricted Working Space, Add</i>	3.34	
22 11 16 00-0735	EA		3/4" Crimped Copper Cap	32.59	8.65
			<i>For Work In Restricted Working Space, Add</i>	3.89	
22 11 16 00-0736	EA		1" Crimped Copper Cap	45.07	9.90
			<i>For Work In Restricted Working Space, Add</i>	4.45	
22 11 16 00-0737	EA		1-1/4" Crimped Copper Cap	50.92	11.13
			<i>For Work In Restricted Working Space, Add</i>	5.01	
22 11 16 00-0738	EA		1-1/2" Crimped Copper Cap	72.22	12.73
			<i>For Work In Restricted Working Space, Add</i>	5.75	
22 11 16 00-0739	EA		2" Crimped Copper Cap	86.71	14.84
			<i>For Work In Restricted Working Space, Add</i>	6.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0740 EA 2-1/2" Crimped Copper Cap <i>For Work In Restricted Working Space, Add</i>	232.07 7.79	17.32
22 11 16 00-0741 EA 3" Crimped Copper Cap..... <i>For Work In Restricted Working Space, Add</i>	291.77 9.28	20.65
22 11 16 00-0742 EA 4" Crimped Copper Cap..... <i>For Work In Restricted Working Space, Add</i>	388.39 12.24	27.20
22 11 16 00-0743 C x F NPT Crimped Bronze Unions (22 11 16 00-0657)		
22 11 16 00-0744 EA 1/2" C x F NPT Crimped Bronze Union..... <i>For Work In Restricted Working Space, Add</i>	64.34 9.09	20.15
22 11 16 00-0745 EA 3/4" C x F NPT Crimped Bronze Union..... <i>For Work In Restricted Working Space, Add</i>	80.86 11.17	24.86
22 11 16 00-0746 EA 1" C x F NPT Crimped Bronze Union..... <i>For Work In Restricted Working Space, Add</i>	117.13 13.39	29.80
22 11 16 00-0747 EA 1-1/4" C x F NPT Crimped Bronze Union <i>For Work In Restricted Working Space, Add</i>	143.39 15.51	34.38
22 11 16 00-0748 EA 1-1/2" C x F NPT Crimped Bronze Union <i>For Work In Restricted Working Space, Add</i>	194.61 15.14	33.63
22 11 16 00-0749 EA 2" C x F NPT Crimped Bronze Union..... <i>For Work In Restricted Working Space, Add</i>	263.94 21.89	48.72
22 11 16 00-0750 C x C Crimped Bronze Unions (22 11 16 00-0657)		
22 11 16 00-0751 EA 1/2" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	64.69 6.68	14.84
22 11 16 00-0752 EA 3/4" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	81.00 7.61	16.94
22 11 16 00-0753 EA 1" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	119.17 9.09	20.15
22 11 16 00-0754 EA 1-1/4" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	160.32 10.02	22.25
22 11 16 00-0755 EA 1-1/2" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	209.47 11.13	24.73
22 11 16 00-0756 EA 2" C x C Bronze Crimped Union <i>For Work In Restricted Working Space, Add</i>	326.01 13.36	29.68
22 11 16 00-0757 C x Flange Crimped Bronze Flange (22 11 16 00-0657)		
22 11 16 00-0758 EA 2-1/2" C x Flange Crimped Bronze Flange <i>For Work In Restricted Working Space, Add</i>	654.66 15.58	34.62
22 11 16 00-0759 EA 3" C x Flange Crimped Bronze Flange <i>For Work In Restricted Working Space, Add</i>	710.55 18.55	41.18
22 11 16 00-0760 EA 4" C x Flange Crimped Bronze Flange <i>For Work In Restricted Working Space, Add</i>	807.84 24.48	54.40
22 11 16 00-0761 Field Installed FKM Seals (22 11 16 00-0657)		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0762 EA 1/2" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	8.96 1.67	
22 11 16 00-0763 EA 3/4" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	11.69 1.95	
22 11 16 00-0764 EA 1" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	13.43 2.23	
22 11 16 00-0765 EA 1-1/4" Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	15.57 2.51	
22 11 16 00-0766 EA 1-1/2" Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	23.20 2.87	
22 11 16 00-0767 EA 2" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	25.54 3.34	
22 11 16 00-0768 EA 2-1/2" Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	40.41 3.89	
22 11 16 00-0769 EA 3" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	46.08 4.64	
22 11 16 00-0770 EA 4" Field Installed FKM Seal..... Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	63.24 6.12	
22 11 16 00-0771 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0383)		
22 11 16 00-0772 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	12.37	
22 11 16 00-0773 EA 3/4", Cut And Prepare Existing In Place Copper Pipe	13.36	
22 11 16 00-0774 EA 1", Cut And Prepare Existing In Place Copper Pipe	15.02	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-0775	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe	15.76	
22 11 16 00-0776	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe	16.69	
22 11 16 00-0777	EA	2", Cut And Prepare Existing In Place Copper Pipe.....	18.37	
22 11 16 00-0778	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe	19.79	
22 11 16 00-0779	EA	3", Cut And Prepare Existing In Place Copper Pipe.....	23.37	
22 11 16 00-0780	EA	4", Cut And Prepare Existing In Place Copper Pipe.....	31.53	
22 11 16 00-0781	EA	6", Cut And Prepare Existing In Place Copper Pipe.....	45.06	
22 11 16 00-0782	EA	8", Cut And Prepare Existing In Place Copper Pipe.....	60.10	
22 11 16 00-0783		Sweat Brass Companion Flanges (22 11 16 00-0383)		
		Note: Excludes bolt and gasket sets		
22 11 16 00-0784	EA	1" Sweat Brass Companion Flange	80.52	19.02
22 11 16 00-0785	EA	1-1/4" Sweat Brass Companion Flange	87.85	20.96
22 11 16 00-0786	EA	1-1/2" Sweat Brass Companion Flange	128.39	22.77
22 11 16 00-0787	EA	2" Sweat Brass Companion Flange	173.87	25.28
22 11 16 00-0788	EA	2-1/2" Sweat Brass Companion Flange	255.92	30.41
22 11 16 00-0789	EA	3" Sweat Brass Companion Flange	277.49	39.86
22 11 16 00-0790	EA	4" Sweat Brass Companion Flange	374.96	47.49
22 11 16 00-0791	EA	5" Sweat Brass Companion Flange	701.73	55.92
22 11 16 00-0792	EA	6" Sweat Brass Companion Flange	789.19	81.25
22 11 16 00-0793	EA	8" Copper Companion Flange.....	1,907.88	115.89
22 11 16 00-0794		Brass Compression Fittings (22 11 16 00-0383)		
22 11 16 00-0795		Brass Compression Unions (22 11 16 00-0794)		
22 11 16 00-0796	EA	1/4" Brass Compression Union	21.11	13.36
22 11 16 00-0797	EA	3/8" Brass Compression Union	21.41	13.36
22 11 16 00-0798	EA	1/2" Brass Compression Union	22.32	13.36
22 11 16 00-0799	EA	5/8" Brass Compression Union	22.75	13.36
22 11 16 00-0800	EA	3/4" Brass Compression Union	31.36	13.36
22 11 16 00-0801	EA	3/8" x 1/4" Brass Compression Union	21.62	13.36
22 11 16 00-0802	EA	1/2" x 3/8" Brass Compression Union	22.39	13.36
22 11 16 00-0803	EA	5/8" x 3/8" Brass Compression Union	22.93	13.36
22 11 16 00-0804	EA	5/8" x 1/2" Brass Compression Union	23.79	13.36
22 11 16 00-0805		Brass Compression Union Elbows (22 11 16 00-0794)		
22 11 16 00-0806	EA	1/4" Brass Compression Union Elbow	22.32	13.36
22 11 16 00-0807	EA	3/8" Brass Compression Union Elbow	22.81	13.36
22 11 16 00-0808	EA	1/2" Brass Compression Union Elbow	23.89	13.36
22 11 16 00-0809	EA	5/8" Brass Compression Union Elbow	25.56	13.36
22 11 16 00-0810	EA	3/4" Brass Compression Union Elbow	32.09	13.36
22 11 16 00-0811	EA	3/8" x 1/4" Brass Compression Union Elbow	22.81	13.36
22 11 16 00-0812	EA	1/2" x 3/8" Brass Compression Union Elbow	23.89	13.36
22 11 16 00-0813	EA	5/8" x 3/8" Brass Compression Union Elbow	24.19	13.36
22 11 16 00-0814	EA	5/8" x 1/2" Brass Compression Union Elbow	29.09	13.36
22 11 16 00-0815		Brass Compression Union Tees (22 11 16 00-0794)		
22 11 16 00-0816	EA	1/4" Brass Compression Union Tee.....	22.69	13.36
22 11 16 00-0817	EA	3/8" Brass Compression Union Tee.....	23.71	13.36
22 11 16 00-0818	EA	1/2" Brass Compression Union Tee.....	24.79	13.36
22 11 16 00-0819	EA	5/8" Brass Compression Union Tee.....	28.20	13.36
22 11 16 00-0820	EA	3/4" Brass Compression Union Tee.....	39.98	13.36
22 11 16 00-0821	EA	3/8" x 3/8" x 1/4" Brass Compression Union Tee	24.43	13.36
22 11 16 00-0822	EA	1/2" x 1/2" x 3/8" Brass Compression Union Tee	29.96	13.36
22 11 16 00-0823	EA	5/8" x 5/8" x 3/8" Brass Compression Union Tee	29.43	13.36
22 11 16 00-0824	EA	5/8" x 5/8" x 1/2" Brass Compression Union Tee	30.05	13.36
22 11 16 00-0825		Brass Compression Male Connectors (22 11 16 00-0794)		
22 11 16 00-0826	EA	1/4" Brass Compression Male Connector	20.90	13.36
22 11 16 00-0827	EA	3/8" Brass Compression Male Connector	21.29	13.36
22 11 16 00-0828	EA	1/2" Brass Compression Male Connector	21.97	13.36
22 11 16 00-0829	EA	5/8" Brass Compression Male Connector	22.99	13.36
22 11 16 00-0830	EA	3/4" Brass Compression Male Connector	27.95	13.23
22 11 16 00-0831		Brass Compression Female Connectors (22 11 16 00-0794)		
22 11 16 00-0832	EA	1/4" Brass Compression Female Connector	21.33	13.36
22 11 16 00-0833	EA	3/8" Brass Compression Female Connector	21.84	13.36
22 11 16 00-0834	EA	1/2" Brass Compression Female Connector	22.71	13.36
22 11 16 00-0835	EA	5/8" Brass Compression Female Connector	23.28	13.36
22 11 16 00-0836	EA	3/4" Brass Compression Female Connector	35.91	13.11
22 11 16 00-0837		Dielectric Fittings (22 11 16 00-0383)		
22 11 16 00-0838		Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0837)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0839	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union	52.16	29.68
	22 11 16 00-0840	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union	58.34	33.89
	22 11 16 00-0841	EA		1" Copper x Female Iron Pipe Thread Dielectric Union	69.10	37.24
	22 11 16 00-0842	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	83.30	41.00
	22 11 16 00-0843	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	100.29	45.56
	22 11 16 00-0844	EA		2" Copper x Female Iron Pipe Thread Dielectric Union	127.04	54.66
22 11 16 00-0845				Female Brass Thread x Iron Pipe Thread Dielectric Unions <small>(22 11 16 00-0837)</small>		
	22 11 16 00-0846	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	56.99	29.68
	22 11 16 00-0847	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	66.30	33.89
	22 11 16 00-0848	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union	79.59	37.24
	22 11 16 00-0849	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	97.21	41.00
	22 11 16 00-0850	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	117.50	45.56
	22 11 16 00-0851	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union	147.22	54.66
22 11 16 00-0852				Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions <small>(22 11 16 00-0837)</small>		
	22 11 16 00-0853	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	53.93	29.68
	22 11 16 00-0854	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	61.25	33.89
	22 11 16 00-0855	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	69.87	37.24
	22 11 16 00-0856	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	80.61	41.00
	22 11 16 00-0857	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	97.62	45.56
	22 11 16 00-0858	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	124.90	54.66
22 11 16 00-0859				Copper x Female Iron Pipe Thread Dielectric Flanges <small>(22 11 16 00-0837)</small>		
	22 11 16 00-0860	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange	310.07	140.53
	22 11 16 00-0861	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange	388.28	176.98
	22 11 16 00-0862	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange	546.51	240.87
22 11 16 00-0863				Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges <small>(22 11 16 00-0837)</small>		
	22 11 16 00-0864	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	312.06	140.53
	22 11 16 00-0865	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	404.12	176.98
	22 11 16 00-0866	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	729.16	240.87
22 11 16 00-0867				Brass Push-Fit Fittings <small>(22 11 16)</small>		
	22 11 16 00-0868	EA		1/4" x 1/4" Brass Push-Fit Coupling	26.71	12.37
				Note: (Sharkbite)		
	22 11 16 00-0869	EA		3/8" x 3/8" Brass Push-Fit Coupling	33.21	13.20
				Note: (Sharkbite)		
	22 11 16 00-0870	EA		1/2" x 1/2" Brass Push-Fit Coupling	34.39	14.84
				Note: (Sharkbite)		
	22 11 16 00-0871	EA		5/8" x 5/8" Brass Push-Fit Coupling	39.62	15.83
				Note: (Sharkbite)		
	22 11 16 00-0872	EA		3/4" x 3/4" Brass Push-Fit Coupling	40.37	16.90
				Note: (Sharkbite)		
	22 11 16 00-0873	EA		1" x 1" Brass Push-Fit Coupling	56.82	20.19
				Note: (Sharkbite)		
	22 11 16 00-0874	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling	33.80	14.01
				Note: (Sharkbite)		
	22 11 16 00-0875	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling	39.16	15.34
				Note: (Sharkbite)		
	22 11 16 00-0876	EA		1" x 3/4" Brass Push-Fit Reducing Coupling	58.44	18.55
				Note: (Sharkbite)		
	22 11 16 00-0877	EA		1/4" x 1/4" Brass Push-Fit Elbow	27.90	12.37
				Note: (Sharkbite)		
	22 11 16 00-0878	EA		3/8" x 3/8" Brass Push-Fit Elbow	38.24	13.20
				Note: (Sharkbite)		
	22 11 16 00-0879	EA		1/2" x 1/2" Brass Push-Fit Elbow	35.03	14.84
				Note: (Sharkbite)		
	22 11 16 00-0880	EA		5/8" x 5/8" Brass Push-Fit Elbow	42.54	15.83
				Note: (Sharkbite)		
	22 11 16 00-0881	EA		3/4" x 3/4" Brass Push-Fit Elbow	39.53	16.90
				Note: (Sharkbite)		
	22 11 16 00-0882	EA		1" x 1" Brass Push-Fit Elbow	57.47	20.19
				Note: (Sharkbite)		
	22 11 16 00-0883	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow	33.27	14.01
				Note: (Sharkbite)		
	22 11 16 00-0884	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow	37.07	15.34
				Note: (Sharkbite)		
	22 11 16 00-0885	EA		1" x 3/4" Brass Push-Fit Reducing Elbow	72.83	18.55
				Note: (Sharkbite)		
	22 11 16 00-0886	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee	42.32	18.55
				Note: (Sharkbite)		
	22 11 16 00-0887	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee	53.70	19.78
				Note: (Sharkbite)		
	22 11 16 00-0888	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee	49.07	22.25
				Note: (Sharkbite)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0889	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	62.57	23.74
22 11 16 00-0890	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	57.26	25.35
22 11 16 00-0891	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	78.39	30.29
22 11 16 00-0892	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.16	21.02
22 11 16 00-0893	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.46	21.43
22 11 16 00-0894	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.28	24.32
22 11 16 00-0895	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	76.06	28.66
22 11 16 00-0896	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	31.84	13.60
22 11 16 00-0897	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	31.44	14.01
22 11 16 00-0898	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	31.04	14.84
22 11 16 00-0899	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	35.56	16.90
22 11 16 00-0900	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	50.06	20.19
22 11 16 00-0901	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	27.80	13.60
22 11 16 00-0902	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	31.44	14.01
22 11 16 00-0903	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	31.12	14.84
22 11 16 00-0904	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	35.19	16.90
22 11 16 00-0905	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	38.30	16.36
22 11 16 00-0906	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	45.97	18.55
22 11 16 00-0907	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	50.81	20.19
22 11 16 00-0908	EA		1/2" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	45.00	14.84
22 11 16 00-0909	EA		3/4" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	52.64	16.90
22 11 16 00-0910	EA		1" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	69.59	20.19
22 11 16 00-0911	EA		1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	48.25	14.84
22 11 16 00-0912	EA		3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	58.11	16.90
22 11 16 00-0913	EA		1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	98.08	20.19
22 11 16 00-0914			Copper Pipe With Fittings And Hangers Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0915	LF		1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	25.94	3.46
			<i>For Type K Tubing Instead Of Type L, Add</i>	1.92	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.56	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.23	
			<i>For For Brazed Fittings, Add</i>	0.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.26	
			<i>For Work In Restricted Working Space, Add</i>	5.81	
22 11 16 00-0916	LF		3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	30.07	4.45
			<i>For Type K Tubing Instead Of Type L, Add</i>	2.30	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.85	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.70	
			<i>For For Brazed Fittings, Add</i>	0.88	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.58	
22 11 16 00-0917	LF		1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	33.53	5.32
			<i>For Type K Tubing Instead Of Type L, Add</i>	2.76	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-2.19	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.97	
			<i>For For Brazed Fittings, Add</i>	0.92	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.83	
			<i>For Work In Restricted Working Space, Add</i>	6.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0918 LF 1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....38.53		6.18
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	3.51	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-2.71	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.31	
<i>For For Brazed Fittings, Add</i>	0.95	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.12	
<i>For Work In Restricted Working Space, Add</i>	7.16	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-1.47	
22 11 16 00-0919 LF 1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....43.23		7.05
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	4.12	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-3.15	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.71	
<i>For For Brazed Fittings, Add</i>	1.02	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.43	
<i>For Work In Restricted Working Space, Add</i>	7.64	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-1.78	
22 11 16 00-0920 LF 2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....55.41		8.78
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	5.73	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-4.31	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.70	
<i>For For Brazed Fittings, Add</i>	1.17	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.24	
<i>For Work In Restricted Working Space, Add</i>	8.79	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-2.61	
22 11 16 00-0921 LF 2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....70.90		10.59
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	8.14	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-5.99	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.69	
<i>For For Brazed Fittings, Add</i>	1.26	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.12	
<i>For Work In Restricted Working Space, Add</i>	9.43	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-3.95	
22 11 16 00-0922 LF 3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....88.24		12.30
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	10.82	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-7.87	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.82	
<i>For For Brazed Fittings, Add</i>	1.36	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.11	
<i>For Work In Restricted Working Space, Add</i>	10.21	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-5.42	
22 11 16 00-0923 LF 4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....141.76		16.29
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	18.81	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-13.49	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.49	
<i>For For Brazed Fittings, Add</i>	1.76	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.29	
<i>For Work In Restricted Working Space, Add</i>	13.20	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-9.78	
22 11 16 00-0924 LF 5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....268.02		20.27
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	39.15	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-27.64	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.05	
<i>For For Brazed Fittings, Add</i>	2.26	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-16.23	
<i>For Work In Restricted Working Space, Add</i>	16.94	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-21.15	
22 11 16 00-0925 LF 6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....351.71		24.48
Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.		
<i>For Type K Tubing Instead Of Type L, Add</i>	51.70	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-36.47	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.76	
<i>For For Brazed Fittings, Add</i>	2.87	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-21.17	
<i>For Work In Restricted Working Space, Add</i>	21.53	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-28.00	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0926	LF		8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	825.17 131.93 -91.89 50.18 3.57 -45.72 26.75 -73.60	29.27
22 11 16 00-0927			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0928			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0927)		
22 11 16 00-0929			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0928)		
22 11 16 00-0930	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	7.40 1.37	1.82
22 11 16 00-0931	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	8.66 1.43	1.91
22 11 16 00-0932	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	10.84 1.54	2.06
22 11 16 00-0933	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	13.50 1.69	2.24
22 11 16 00-0934	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	15.74 1.86	2.49
22 11 16 00-0935	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	20.13 2.08	2.78
22 11 16 00-0936	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	28.08 2.37	3.15
22 11 16 00-0937	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	36.30 2.80	3.74
22 11 16 00-0938	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	51.03 3.44	4.59
22 11 16 00-0939	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	91.11 4.38	5.83
22 11 16 00-0940	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	132.01 5.74	7.65
22 11 16 00-0941			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0928)		
22 11 16 00-0942	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	26.08 6.49	8.66
22 11 16 00-0943	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	34.23 8.20	10.93
22 11 16 00-0944	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	45.19 10.28	13.67
22 11 16 00-0945	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	63.83 12.85	17.09
22 11 16 00-0946	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	71.10 14.21	18.90
22 11 16 00-0947	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	84.81 15.85	18.90
22 11 16 00-0948	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	143.41 18.04	24.03
22 11 16 00-0949	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	161.56 21.32	28.47
22 11 16 00-0950	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	238.39 26.24	34.96
22 11 16 00-0951	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	300.33 33.35	44.42
22 11 16 00-0952	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	608.77 43.73	58.31
22 11 16 00-0953			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0928)		
22 11 16 00-0954	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	28.29 6.49	8.66
22 11 16 00-0955	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	36.88 8.20	10.93
22 11 16 00-0956	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	49.50 10.28	13.67
22 11 16 00-0957	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	69.50 12.85	17.09
22 11 16 00-0958	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	78.00 14.21	18.90
22 11 16 00-0959	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	87.16 15.85	21.19
22 11 16 00-0960	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	144.89 18.04	24.03



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0961	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	161.37 21.32	28.47
22 11 16 00-0962	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	211.35 26.24	34.96
22 11 16 00-0963	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	351.02 33.35	44.42
22 11 16 00-0964	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	644.69 43.73	58.31
22 11 16 00-0965			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees <small>(22 11 16 00-0928)</small>		
22 11 16 00-0966	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	40.52 9.74	12.98
22 11 16 00-0967	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	53.88 12.30	16.40
22 11 16 00-0968	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	67.31 15.44	20.61
22 11 16 00-0969	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	97.62 19.27	25.73
22 11 16 00-0970	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	109.32 21.32	28.47
22 11 16 00-0971	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	136.32 23.78	31.67
22 11 16 00-0972	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	183.94 27.06	36.10
22 11 16 00-0973	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	208.60 31.98	42.60
22 11 16 00-0974	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	251.69 39.36	52.50
22 11 16 00-0975	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	402.17 50.02	66.74
22 11 16 00-0976	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	892.69 65.60	87.47
22 11 16 00-0977			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses <small>(22 11 16 00-0928)</small>		
22 11 16 00-0978	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	50.22 12.98	17.31
22 11 16 00-0979	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	65.75 16.40	21.86
22 11 16 00-0980	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	82.20 20.57	27.44
22 11 16 00-0981	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	114.40 25.69	34.28
22 11 16 00-0982	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	127.70 28.43	37.92
22 11 16 00-0983	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	154.84 31.71	42.25
22 11 16 00-0984	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	201.01 36.08	48.06
22 11 16 00-0985	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	229.98 42.64	56.83
22 11 16 00-0986	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	278.71 52.48	69.93
22 11 16 00-0987	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	425.10 66.69	88.94
22 11 16 00-0988	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	872.11 87.47	116.62
22 11 16 00-0989			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0928)</small>		
22 11 16 00-0990	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	22.70 6.02	7.97
22 11 16 00-0991	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.16 8.10	10.82
22 11 16 00-0992	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	58.95 10.59	14.13
22 11 16 00-0993	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	66.97 11.72	15.60
22 11 16 00-0994	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	80.27 13.09	17.43
22 11 16 00-0995	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	86.30 14.90	19.81
22 11 16 00-0996	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	105.59 17.60	23.46
22 11 16 00-0997	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	147.42 21.66	28.82
22 11 16 00-0998	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	251.91 27.50	36.67
22 11 16 00-0999	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	602.35 36.08	48.06



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-1000	Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0928)</small>		
22 11 16 00-1001	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	31.61	5.70
	<i>For Work In Restricted Working Space, Add</i>	4.27	
22 11 16 00-1002	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	38.78	7.97
	<i>For Work In Restricted Working Space, Add</i>	6.02	
22 11 16 00-1003	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	47.07	10.82
	<i>For Work In Restricted Working Space, Add</i>	8.10	
22 11 16 00-1004	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	57.66	14.13
	<i>For Work In Restricted Working Space, Add</i>	10.59	
22 11 16 00-1005	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	68.88	15.60
	<i>For Work In Restricted Working Space, Add</i>	11.72	
22 11 16 00-1006	EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	89.76	17.43
	<i>For Work In Restricted Working Space, Add</i>	13.09	
22 11 16 00-1007	EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	148.28	19.81
	<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1008	EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	316.26	23.46
	<i>For Work In Restricted Working Space, Add</i>	17.60	
22 11 16 00-1009	EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	478.21	28.82
	<i>For Work In Restricted Working Space, Add</i>	21.66	
22 11 16 00-1010	Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0928)</small>		
22 11 16 00-1011	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	20.89	5.70
	<i>For Work In Restricted Working Space, Add</i>	4.27	
22 11 16 00-1012	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	29.04	7.97
	<i>For Work In Restricted Working Space, Add</i>	6.02	
22 11 16 00-1013	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	42.14	10.82
	<i>For Work In Restricted Working Space, Add</i>	8.10	
22 11 16 00-1014	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	57.66	14.13
	<i>For Work In Restricted Working Space, Add</i>	10.59	
22 11 16 00-1015	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	69.31	15.60
	<i>For Work In Restricted Working Space, Add</i>	11.72	
22 11 16 00-1016	EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	84.52	17.43
	<i>For Work In Restricted Working Space, Add</i>	13.09	
22 11 16 00-1017	EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	127.09	19.81
	<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1018	EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	152.28	23.46
	<i>For Work In Restricted Working Space, Add</i>	17.60	
22 11 16 00-1019	EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	230.51	28.82
	<i>For Work In Restricted Working Space, Add</i>	21.66	
22 11 16 00-1020	Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0928)</small>		
22 11 16 00-1021	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	23.42	5.70
	<i>For Work In Restricted Working Space, Add</i>	4.27	
22 11 16 00-1022	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	29.85	7.97
	<i>For Work In Restricted Working Space, Add</i>	6.02	
22 11 16 00-1023	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	42.35	10.82
	<i>For Work In Restricted Working Space, Add</i>	8.10	
22 11 16 00-1024	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	58.40	14.13
	<i>For Work In Restricted Working Space, Add</i>	10.59	
22 11 16 00-1025	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	65.92	15.60
	<i>For Work In Restricted Working Space, Add</i>	11.72	
22 11 16 00-1026	EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	81.75	17.43
	<i>For Work In Restricted Working Space, Add</i>	13.09	
22 11 16 00-1027	EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	128.69	19.81
	<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1028	EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	180.25	23.46
	<i>For Work In Restricted Working Space, Add</i>	17.60	
22 11 16 00-1029	EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	278.07	28.82
	<i>For Work In Restricted Working Space, Add</i>	21.66	
22 11 16 00-1030	Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <small>(22 11 16 00-0928)</small>		
22 11 16 00-1031	EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	18.65	5.23
	<i>For Work In Restricted Working Space, Add</i>	3.89	
22 11 16 00-1032	EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	26.23	7.28
	<i>For Work In Restricted Working Space, Add</i>	5.47	
22 11 16 00-1033	EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	35.26	9.79
	<i>For Work In Restricted Working Space, Add</i>	7.34	
22 11 16 00-1034	EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	48.20	12.87
	<i>For Work In Restricted Working Space, Add</i>	9.64	
22 11 16 00-1035	EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	55.81	14.24
	<i>For Work In Restricted Working Space, Add</i>	10.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1036	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	63.17 11.89	15.83
22 11 16 00-1037	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	101.53 13.53	17.99
22 11 16 00-1038	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	110.28 15.99	21.30
22 11 16 00-1039	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	140.25 19.68	26.19
22 11 16 00-1040	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	230.66 25.01	33.37
22 11 16 00-1041	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	407.79 32.80	43.73
22 11 16 00-1042			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0928)		
22 11 16 00-1043	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	39.75 4.68	6.26
22 11 16 00-1044	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	47.18 6.56	8.77
22 11 16 00-1045	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	55.50 8.81	11.73
22 11 16 00-1046	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	99.92 11.55	15.38
22 11 16 00-1047	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	105.13 12.78	17.09
22 11 16 00-1048	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	151.35 14.28	19.02
22 11 16 00-1049	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	269.21 16.23	21.64
22 11 16 00-1050	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	389.08 19.20	25.62
22 11 16 00-1051	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	631.32 23.61	31.43
22 11 16 00-1052	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	846.34 30.00	39.97
22 11 16 00-1053	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,042.89 39.36	52.50
22 11 16 00-1054			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0928)		
22 11 16 00-1055	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	17.06 2.44	5.36
22 11 16 00-1056	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	22.94 3.08	6.72
22 11 16 00-1057	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	35.28 3.86	8.43
22 11 16 00-1058	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	40.64 4.82	6.38
22 11 16 00-1059	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	42.83 5.33	7.06
22 11 16 00-1060	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	60.18 5.94	7.97
22 11 16 00-1061	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	95.24 6.77	8.99
22 11 16 00-1062	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	101.00 8.00	10.71
22 11 16 00-1063	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	158.22 9.84	13.09
22 11 16 00-1064	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	353.75 12.50	16.63
22 11 16 00-1065	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	455.37 16.40	21.86
22 11 16 00-1066			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0928)		
22 11 16 00-1067	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	31.93 3.11	4.10
22 11 16 00-1068	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	37.68 4.37	5.81
22 11 16 00-1069	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	45.34 5.88	7.86
22 11 16 00-1070	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	52.22 7.72	10.25
22 11 16 00-1071	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	55.57 8.54	11.39
22 11 16 00-1072	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	67.71 9.50	12.64
22 11 16 00-1073	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	92.35 10.83	14.46
22 11 16 00-1074	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	103.95 12.78	17.09
22 11 16 00-1075	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	130.24 15.75	20.96



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1076	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	188.95 20.02	26.65
22 11 16 00-1077	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	363.19 26.24	34.96
22 11 16 00-1078			Polypropylene Random (PP-R), Heat Fusion, Domestic Water Pipe <small>(22 11 16)</small>		
22 11 16 00-1079			Polypropylene Random (PP-R), Heat Fusion, Domestic Hot Water Pipe <small>(22 11 16)</small> <small>00-1078</small> Note: Aquatherm greenpipe®		
22 11 16 00-1080	LF		1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	5.71	1.94
22 11 16 00-1081	LF		3/4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	6.81	2.02
22 11 16 00-1082	LF		1" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	9.40	2.43
22 11 16 00-1083	LF		1-1/4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	12.08	2.60
22 11 16 00-1084	LF		1-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	17.09	2.92
22 11 16 00-1085	LF		2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	23.12	2.97
22 11 16 00-1086	LF		2-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	33.09	4.04
22 11 16 00-1087	LF		3" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	44.25	4.67
22 11 16 00-1088	LF		3-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	60.10	5.22
22 11 16 00-1089	LF		4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	71.28	5.78
22 11 16 00-1090			Polypropylene Random (PP-R), Heat Fusion, Domestic Cold Water Pipe <small>(22 11)</small> <small>16 00-1078</small> Note: Aquatherm greenpipe®		
22 11 16 00-1091	LF		1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	5.13	1.94
22 11 16 00-1092	LF		3/4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	5.86	2.02
22 11 16 00-1093	LF		1" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	7.69	2.43
22 11 16 00-1094	LF		1-1/4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	9.58	2.60
22 11 16 00-1095	LF		1-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	12.72	2.92
22 11 16 00-1096	LF		2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	16.91	2.97
22 11 16 00-1097	LF		2-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	23.53	4.04
22 11 16 00-1098	LF		3" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	31.64	4.67
22 11 16 00-1099	LF		3-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	44.27	5.22
22 11 16 00-1100	LF		4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	52.52	5.78
22 11 16 00-1101			Polypropylene Random (PP-R), Heat Fusion, UV Protected, Domestic Hot Water Pipe <small>(22 11 16 00-1078)</small> Note: Aquatherm greenpipe®.		
22 11 16 00-1102	LF		1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	6.01	1.94
22 11 16 00-1103	LF		3/4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	7.22	2.02
22 11 16 00-1104	LF		1" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	9.86	2.43
22 11 16 00-1105	LF		1-1/4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	12.67	2.60
22 11 16 00-1106	LF		1-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	18.79	2.92
22 11 16 00-1107	LF		2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	24.04	2.97
22 11 16 00-1108	LF		2-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	34.40	4.04
22 11 16 00-1109	LF		3" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	47.54	4.67
22 11 16 00-1110	LF		3-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	59.93	5.22
22 11 16 00-1111	LF		4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	70.76	5.78
22 11 16 00-1112			Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe <small>(22 11)</small> <small>16 00-1078</small> Note: Aquatherm climatherm®.		
22 11 16 00-1113	LF		1/2" 7.4 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	5.10	1.94
22 11 16 00-1114	LF		3/4" 7.4 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	5.97	2.02
22 11 16 00-1115	LF		1" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	7.06	2.43
22 11 16 00-1116	LF		1-1/4" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	8.67	2.60
22 11 16 00-1117	LF		1-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	11.09	2.92
22 11 16 00-1118	LF		2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	14.45	2.98
22 11 16 00-1119	LF		2-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	20.17	4.04
22 11 16 00-1120	LF		3" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	26.95	4.67
22 11 16 00-1121	LF		3-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	36.55	5.23
22 11 16 00-1122	LF		4" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	44.30	5.78
22 11 16 00-1123	LF		6" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	53.01	7.38
22 11 16 00-1124	LF		8" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	86.02	9.70
22 11 16 00-1125			Pipe Clamp For Polypropylene Random (PP-R) Pipe <small>(22 11 16 00-1078)</small>		
22 11 16 00-1126	EA		1/2" Pipe Clamp For Polypropylene Pipe.....	14.49	4.79
22 11 16 00-1127	EA		3/4" Pipe Clamp For Polypropylene Pipe.....	15.24	4.79
22 11 16 00-1128	EA		1" Pipe Clamp For Polypropylene Pipe.....	15.74	4.79
22 11 16 00-1129	EA		1-1/4" Pipe Clamp For Polypropylene Pipe.....	15.91	4.79
22 11 16 00-1130	EA		1-1/2" Pipe Clamp For Polypropylene Pipe.....	16.49	4.79
22 11 16 00-1131	EA		2" Pipe Clamp For Polypropylene Pipe.....	18.15	4.79
22 11 16 00-1132	EA		2-1/2" Pipe Clamp For Polypropylene Pipe.....	20.57	4.79
22 11 16 00-1133	EA		3" Pipe Clamp For Polypropylene Pipe.....	21.40	4.79
22 11 16 00-1134	EA		3-1/2" Pipe Clamp For Polypropylene Pipe.....	22.57	4.79
22 11 16 00-1135	EA		4" Pipe Clamp For Polypropylene Pipe.....	24.15	4.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1136 Polypropylene Random (PP-R) Pipe, Pipe Fastening Strap (22 11 16 00-1078)		
22 11 16 00-1137 EA Up to 1" Polypropylene Pipe, Single Pipe Fastening Strap, 1-3/8" Spike	4.70	
22 11 16 00-1138 EA Up to 1" Polypropylene Pipe, Single Pipe Fastening Strap, 2-1/2" Spike	4.91	
22 11 16 00-1139 EA Up to 1" Polypropylene Pipe, Double Pipe Fastening Strap, 1-3/8" Spike	5.00	
22 11 16 00-1140 EA Up to 1" Polypropylene Pipe, Double Pipe Fastening Strap, 2-1/2" Spike	5.08	
22 11 16 00-1141 Polypropylene Random (PP-R) Pipe Plastic Pipe Clamp (22 11 16 00-1078)		
22 11 16 00-1142 EA 1/2" Polypropylene Pipe Plastic Pipe Clamp	10.84	2.49
22 11 16 00-1143 EA 3/4" Polypropylene Pipe Plastic Pipe Clamp	11.35	2.49
22 11 16 00-1144 Polypropylene Random (PP-R), Heat Fusion, Socket Coupling (22 11 16 00-1078)		
22 11 16 00-1145 EA 1/2" Polypropylene, Heat Fusion, Socket Coupling	9.84	3.87
22 11 16 00-1146 EA 3/4" Polypropylene, Heat Fusion, Socket Coupling	10.44	4.04
22 11 16 00-1147 EA 1" Polypropylene, Heat Fusion, Socket Coupling	12.81	4.84
22 11 16 00-1148 EA 1-1/4" Polypropylene, Heat Fusion, Socket Coupling	14.10	5.19
22 11 16 00-1149 EA 1-1/2" Polypropylene, Heat Fusion, Socket Coupling	19.47	5.83
22 11 16 00-1150 EA 2" Polypropylene, Heat Fusion, Socket Coupling	27.53	5.94
22 11 16 00-1151 EA 2-1/2" Polypropylene, Heat Fusion, Socket Coupling	33.66	8.08
22 11 16 00-1152 EA 3" Polypropylene, Heat Fusion, Socket Coupling	57.18	9.35
22 11 16 00-1153 EA 3-1/2" Polypropylene, Heat Fusion, Socket Coupling	83.47	10.44
22 11 16 00-1154 EA 4" Polypropylene, Heat Fusion, Socket Coupling	105.20	11.54
22 11 16 00-1155 Polypropylene Random (PP-R), Heat Fusion, Bushing (22 11 16 00-1078)		
22 11 16 00-1156 EA 1" Polypropylene, Heat Fusion, Bushing	10.88	3.87
22 11 16 00-1157 EA 1-1/4" Polypropylene, Heat Fusion, Bushing	12.92	4.04
22 11 16 00-1158 EA 1-1/2" Polypropylene, Heat Fusion, Bushing	17.71	4.84
22 11 16 00-1159 EA 2" Polypropylene, Heat Fusion, Bushing	26.40	5.19
22 11 16 00-1160 EA 2-1/2" Polypropylene, Heat Fusion, Bushing	29.58	5.83
22 11 16 00-1161 EA 3" Polypropylene, Heat Fusion, Bushing	51.82	5.94
22 11 16 00-1162 EA 3-1/2" Polypropylene, Heat Fusion, Bushing	79.99	8.08
22 11 16 00-1163 EA 4" x 2-1/2" Polypropylene, Heat Fusion, Bushing	96.59	9.35
22 11 16 00-1164 EA 4" x 3" Polypropylene, Heat Fusion, Bushing	117.76	10.44
22 11 16 00-1165 EA 4" x 3-1/2" Polypropylene, Heat Fusion, Bushing	122.84	11.54
22 11 16 00-1166 Polypropylene Random (PP-R), Heat Fusion, Reducing Coupling (22 11 16 00-1078)		
22 11 16 00-1167 EA 1-1/4" Polypropylene, Heat Fusion, Reducing Coupling	15.56	4.04
22 11 16 00-1168 EA 1-1/2" Polypropylene, Heat Fusion, Reducing Coupling	20.99	4.84
22 11 16 00-1169 EA 2" Polypropylene, Heat Fusion, Reducing Coupling	32.90	5.19
22 11 16 00-1170 EA 2-1/2" Polypropylene, Heat Fusion, Reducing Coupling	36.40	5.83
22 11 16 00-1171 EA 3" Polypropylene, Heat Fusion, Reducing Coupling	45.24	5.94
22 11 16 00-1172 EA 3-1/2" Polypropylene, Heat Fusion, Reducing Coupling	74.02	8.08
22 11 16 00-1173 EA 4" x 3" Polypropylene, Heat Fusion, Reducing Coupling	96.65	9.81
22 11 16 00-1174 EA 4" x 3-1/2" Polypropylene, Heat Fusion, Reducing Coupling	107.85	11.54
22 11 16 00-1175 Polypropylene Random (PP-R), Heat Fusion, 90 Degree Elbow (22 11 16 00-1078)		
22 11 16 00-1176 EA 1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	17.73	7.73
22 11 16 00-1177 EA 3/4" Polypropylene, Heat Fusion, 90 Degree Elbow	19.18	8.14
22 11 16 00-1178 EA 1" Polypropylene, Heat Fusion, 90 Degree Elbow	23.59	9.70
22 11 16 00-1179 EA 1-1/4" Polypropylene, Heat Fusion, 90 Degree Elbow	27.35	10.44
22 11 16 00-1180 EA 1-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	37.10	11.60
22 11 16 00-1181 EA 2" Polypropylene, Heat Fusion, 90 Degree Elbow	45.02	11.83
22 11 16 00-1182 EA 2-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	79.80	16.22
22 11 16 00-1183 EA 3" Polypropylene, Heat Fusion, 90 Degree Elbow	116.13	18.70
22 11 16 00-1184 EA 3-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	153.60	20.89
22 11 16 00-1185 EA 4" Polypropylene, Heat Fusion, 90 Degree Elbow	218.42	23.08
22 11 16 00-1186 Polypropylene Random (PP-R), Heat Fusion, 90 Degree Street Elbow (22 11 16 00-1078)		
22 11 16 00-1187 EA 1/2" Polypropylene, Heat Fusion, 90 Degree Street Elbow	17.73	7.73
22 11 16 00-1188 EA 3/4" Polypropylene, Heat Fusion, 90 Degree Street Elbow	19.18	8.14
22 11 16 00-1189 EA 1" Polypropylene, Heat Fusion, 90 Degree Street Elbow	23.59	9.70
22 11 16 00-1190 EA 1-1/4" Polypropylene, Heat Fusion, 90 Degree Street Elbow	27.35	10.44
22 11 16 00-1191 Polypropylene Random (PP-R), Heat Fusion, 45 Degree Elbow (22 11 16 00-1078)		
22 11 16 00-1192 EA 1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	17.73	7.73
22 11 16 00-1193 EA 3/4" Polypropylene, Heat Fusion, 45 Degree Elbow	19.18	8.14
22 11 16 00-1194 EA 1" Polypropylene, Heat Fusion, 45 Degree Elbow	23.59	9.70
22 11 16 00-1195 EA 1-1/4" Polypropylene, Heat Fusion, 45 Degree Elbow	27.35	10.44
22 11 16 00-1196 EA 1-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	37.10	11.60
22 11 16 00-1197 EA 2" Polypropylene, Heat Fusion, 45 Degree Elbow	44.76	11.83
22 11 16 00-1198 EA 2-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	79.23	16.22
22 11 16 00-1199 EA 3" Polypropylene, Heat Fusion, 45 Degree Elbow	123.79	18.70



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1200	EA		3-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	164.80	20.89
22 11 16 00-1201	EA		4" Polypropylene, Heat Fusion, 45 Degree Elbow	235.60	23.08
22 11 16 00-1202			Polypropylene Random (PP-R), Heat Fusion, 45 Degree Street Elbow (22 11 16 00-1078)		
22 11 16 00-1203	EA		1/2" Polypropylene, Heat Fusion, 45 Degree Street Elbow	17.70	7.73
22 11 16 00-1204	EA		3/4" Polypropylene, Heat Fusion, 45 Degree Street Elbow	19.18	8.14
22 11 16 00-1205	EA		1" Polypropylene, Heat Fusion, 45 Degree Street Elbow	23.59	9.70
22 11 16 00-1206	EA		1-1/4" Polypropylene, Heat Fusion, 45 Degree Street Elbow	27.35	10.44
22 11 16 00-1207			Polypropylene Random (PP-R), Heat Fusion, Tee (22 11 16 00-1078)		
22 11 16 00-1208	EA		1/2" Polypropylene, Heat Fusion, Tee	26.25	11.60
22 11 16 00-1209	EA		3/4" Polypropylene, Heat Fusion, Tee	28.55	12.17
22 11 16 00-1210	EA		1" Polypropylene, Heat Fusion, Tee	34.31	14.49
22 11 16 00-1211	EA		1-1/4" Polypropylene, Heat Fusion, Tee	39.42	15.64
22 11 16 00-1212	EA		1-1/2" Polypropylene, Heat Fusion, Tee	58.11	17.43
22 11 16 00-1213	EA		2" Polypropylene, Heat Fusion, Tee	68.85	17.78
22 11 16 00-1214	EA		2-1/2" Polypropylene, Heat Fusion, Tee	104.38	24.30
22 11 16 00-1215	EA		3" Polypropylene, Heat Fusion, Tee	148.20	28.05
22 11 16 00-1216	EA		3-1/2" Polypropylene, Heat Fusion, Tee	206.21	31.30
22 11 16 00-1217	EA		4" Polypropylene, Heat Fusion, Tee	260.00	34.57
22 11 16 00-1218			Polypropylene Random (PP-R), Heat Fusion, Reducing Tee (22 11 16 00-1078)		
22 11 16 00-1219	EA		1/2" Polypropylene, Heat Fusion, Reducing Tee	26.25	11.60
22 11 16 00-1220	EA		3/4" Polypropylene, Heat Fusion, Reducing Tee	28.55	12.17
22 11 16 00-1221	EA		1" Polypropylene, Heat Fusion, Reducing Tee	34.24	14.49
22 11 16 00-1222	EA		1-1/4" Polypropylene, Heat Fusion, Reducing Tee	39.42	15.64
22 11 16 00-1223	EA		1-1/2" Polypropylene, Heat Fusion, Reducing Tee	58.11	17.43
22 11 16 00-1224	EA		2" Polypropylene, Heat Fusion, Reducing Tee	66.84	17.78
22 11 16 00-1225	EA		2-1/2" Polypropylene, Heat Fusion, Reducing Tee	99.60	24.30
22 11 16 00-1226	EA		3" Polypropylene, Heat Fusion, Reducing Tee	158.37	28.05
22 11 16 00-1227	EA		3-1/2" Polypropylene, Heat Fusion, Reducing Tee	222.44	31.30
22 11 16 00-1228	EA		4" x 2-1/2" Polypropylene, Heat Fusion, Reducing Tee	254.23	34.57
22 11 16 00-1229	EA		4" x 3" Polypropylene, Heat Fusion, Reducing Tee	260.66	34.57
22 11 16 00-1230	EA		4" x 3-1/2" Polypropylene, Heat Fusion, Reducing Tee	261.38	34.57
22 11 16 00-1231			Polypropylene Random (PP-R), Heat Fusion, End Cap (22 11 16 00-1078)		
22 11 16 00-1232	EA		1/2" Polypropylene, Heat Fusion, End Cap	11.04	3.87
22 11 16 00-1233	EA		3/4" Polypropylene, Heat Fusion, End Cap	12.28	4.04
22 11 16 00-1234	EA		1" Polypropylene, Heat Fusion, End Cap	14.79	4.84
22 11 16 00-1235	EA		1-1/4" Polypropylene, Heat Fusion, End Cap	18.39	5.19
22 11 16 00-1236	EA		1-1/2" Polypropylene, Heat Fusion, End Cap	22.70	5.83
22 11 16 00-1237	EA		2" Polypropylene, Heat Fusion, End Cap	30.38	5.94
22 11 16 00-1238	EA		2-1/2" Polypropylene, Heat Fusion, End Cap	42.97	8.08
22 11 16 00-1239	EA		3" Polypropylene, Heat Fusion, End Cap	79.28	9.35
22 11 16 00-1240	EA		3-1/2" Polypropylene, Heat Fusion, End Cap	93.76	10.44
22 11 16 00-1241	EA		4" Polypropylene, Heat Fusion, End Cap	134.06	11.54
22 11 16 00-1242			Polypropylene Random (PP-R), Heat Fusion Outlet (22 11 16 00-1078)		
22 11 16 00-1243	EA		1-1/4" x 1/2" Polypropylene, Heat Fusion Outlet	14.27	
22 11 16 00-1244	EA		1-1/4" x 3/4" Polypropylene, Heat Fusion Outlet	14.62	
22 11 16 00-1245	EA		1-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	15.05	
22 11 16 00-1246	EA		1-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	15.40	
22 11 16 00-1247	EA		2" x 1/2" Polypropylene, Heat Fusion Outlet	16.35	
22 11 16 00-1248	EA		2" x 3/4" Polypropylene, Heat Fusion Outlet	16.70	
22 11 16 00-1249	EA		2" x 1" Polypropylene, Heat Fusion Outlet	18.43	
22 11 16 00-1250	EA		2-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	17.65	
22 11 16 00-1251	EA		2-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	18.00	
22 11 16 00-1252	EA		2-1/2" x 1" Polypropylene, Heat Fusion Outlet	19.73	
22 11 16 00-1253	EA		2-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	20.54	
22 11 16 00-1254	EA		3" x 1/2" Polypropylene, Heat Fusion Outlet	18.96	
22 11 16 00-1255	EA		3" x 3/4" Polypropylene, Heat Fusion Outlet	19.31	
22 11 16 00-1256	EA		3" x 1" Polypropylene, Heat Fusion Outlet	21.04	
22 11 16 00-1257	EA		3" x 1-1/4" Polypropylene, Heat Fusion Outlet	21.85	
22 11 16 00-1258	EA		3-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	18.96	
22 11 16 00-1259	EA		3-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	20.61	
22 11 16 00-1260	EA		3-1/2" x 1" Polypropylene, Heat Fusion Outlet	22.34	
22 11 16 00-1261	EA		3-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	23.15	
22 11 16 00-1262	EA		3-1/2" x 1-1/2" Polypropylene, Heat Fusion Outlet	27.65	
22 11 16 00-1263	EA		4" x 1/2" Polypropylene, Heat Fusion Outlet	21.56	
22 11 16 00-1264	EA		4" x 3/4" Polypropylene, Heat Fusion Outlet	21.91	
22 11 16 00-1265	EA		4" x 1" Polypropylene, Heat Fusion Outlet	23.64	
22 11 16 00-1266	EA		4" x 1-1/4" Polypropylene, Heat Fusion Outlet	24.45	
22 11 16 00-1267	EA		4" x 1-1/2" Polypropylene, Heat Fusion Outlet	27.65	
22 11 16 00-1268	EA		4" x 2" Polypropylene, Heat Fusion Outlet	33.40	



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1269		Polypropylene Random (PP-R), Flange Adaptor With Gaskets Included <small>(22 11 16 00-1078)</small>		
22 11 16 00-1270	EA	1" Polypropylene, Flange Adaptor With Gaskets Included.....	17.01	4.84
22 11 16 00-1271	EA	1-1/4" Polypropylene, Flange Adaptor With Gaskets Included.....	19.00	5.19
22 11 16 00-1272	EA	1-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	25.14	5.83
22 11 16 00-1273	EA	2" Polypropylene, Flange Adaptor With Gaskets Included.....	27.11	5.94
22 11 16 00-1274	EA	2-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	37.46	8.08
22 11 16 00-1275	EA	3" Polypropylene, Flange Adaptor With Gaskets Included.....	62.01	9.35
22 11 16 00-1276	EA	3-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	85.40	10.44
22 11 16 00-1277	EA	4" Polypropylene, Flange Adaptor With Gaskets Included.....	187.39	11.54
22 11 16 00-1278		Polypropylene Random (PP-R), Flange Ring With ANSI Bolt Pattern <small>(22 11 16 00-1078)</small>		
22 11 16 00-1279	EA	1" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	33.84	
22 11 16 00-1280	EA	1-1/4" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	44.91	
22 11 16 00-1281	EA	1-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	56.21	
22 11 16 00-1282	EA	2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	66.92	
22 11 16 00-1283	EA	2-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	93.83	
22 11 16 00-1284	EA	3" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	109.05	
22 11 16 00-1285	EA	3-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	135.24	
22 11 16 00-1286	EA	4" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	163.92	
22 11 16 00-1287		Polypropylene Random (PP-R), Electrofusion Coupling <small>(22 11 16 00-1078)</small>		
22 11 16 00-1288	EA	1/2" Polypropylene, Electrofusion Coupling.....	69.93	7.73
22 11 16 00-1289	EA	3/4" Polypropylene, Electrofusion Coupling.....	72.87	8.14
22 11 16 00-1290	EA	1" Polypropylene, Electrofusion Coupling.....	82.78	9.70
22 11 16 00-1291	EA	1-1/4" Polypropylene, Electrofusion Coupling.....	85.30	10.44
22 11 16 00-1292	EA	1-1/2" Polypropylene, Electrofusion Coupling.....	92.68	11.60
22 11 16 00-1293	EA	2" Polypropylene, Electrofusion Coupling.....	124.38	11.83
22 11 16 00-1294	EA	2-1/2" Polypropylene, Electrofusion Coupling.....	151.81	16.22
22 11 16 00-1295	EA	3" Polypropylene, Electrofusion Coupling.....	189.73	18.70
22 11 16 00-1296	EA	3-1/2" Polypropylene, Electrofusion Coupling.....	258.12	20.89
22 11 16 00-1297	EA	4" Polypropylene, Electrofusion Coupling.....	318.46	23.08
22 11 16 00-1298		Polypropylene Random (PP-R), Heat Fusion, FIP Rear-Mount Back Plate Elbow <small>(22 11 16 00-1078)</small>		
22 11 16 00-1299	EA	1/2" Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow.....	33.35	10.62
22 11 16 00-1300	EA	3/4" Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow.....	40.17	11.02
22 11 16 00-1301		Polypropylene Random (PP-R), Heat Fusion, FIP Side-Mount Back Plate Elbow <small>(22 11 16 00-1078)</small>		
22 11 16 00-1302	EA	1/2" Polypropylene, Heat Fusion, FIP Side-Mount Back Plate Elbow.....	36.26	10.62
22 11 16 00-1303		Polypropylene Random (PP-R), Heat Fusion, ISO Plug For Pressure Test <small>(22 11 16 00-1078)</small>		
22 11 16 00-1304	EA	1/2" Polypropylene, Heat Fusion, ISO Plug For Pressure Test.....	9.38	3.87
22 11 16 00-1305	EA	3/4" Polypropylene, Heat Fusion, ISO Plug For Pressure Test.....	10.21	4.04
22 11 16 00-1306		Polypropylene Random (PP-R), Heat Fusion, Round FIP NPT Transition Piece <small>(22 11 16 00-1078)</small>		
22 11 16 00-1307	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	25.83	7.73
22 11 16 00-1308	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	29.12	7.73
22 11 16 00-1309	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	26.64	8.14
22 11 16 00-1310	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	29.93	8.14
22 11 16 00-1311	EA	1" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	34.41	9.70
22 11 16 00-1312		Polypropylene Random (PP-R), Heat Fusion, Hex FIP NPT Transition Piece <small>(22 11 16 00-1078)</small>		
22 11 16 00-1313	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	31.73	7.73
22 11 16 00-1314	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	34.51	7.73
22 11 16 00-1315	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	32.54	8.14
22 11 16 00-1316	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	35.32	8.14
22 11 16 00-1317	EA	1" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	41.34	9.70
22 11 16 00-1318	EA	1" x 1" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	63.96	9.70
22 11 16 00-1319	EA	1-1/4" x 1" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	67.69	10.44
22 11 16 00-1320	EA	1-1/4" x 1-1/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	91.31	10.44
22 11 16 00-1321	EA	1-1/2" x 1-1/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	95.96	11.60
22 11 16 00-1322	EA	1-1/2" x 1-1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	104.87	11.60
22 11 16 00-1323	EA	2" x 1-1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	113.13	11.83
22 11 16 00-1324	EA	2" x 2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	150.12	11.83
22 11 16 00-1325	EA	2-1/2" x 2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	164.46	16.22



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-1326		Polypropylene Random (PP-R), Heat Fusion, Round MIP NPT Transition Piece <small>(22 11 16 00-1078)</small>		
22 11 16 00-1327	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	39.87	7.73
22 11 16 00-1328	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	43.36	7.73
22 11 16 00-1329	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	40.68	8.14
22 11 16 00-1330	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	44.17	8.14
22 11 16 00-1331	EA	1" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	52.35	9.70
22 11 16 00-1332		Polypropylene Random (PP-R), Heat Fusion, Hex MIP NPT Transition Piece <small>(22 11 16 00-1078)</small>		
22 11 16 00-1333	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	33.36	7.73
22 11 16 00-1334	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	35.92	7.73
22 11 16 00-1335	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	36.73	8.14
22 11 16 00-1336	EA	1" x 1" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	53.69	9.70
22 11 16 00-1337	EA	1" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	77.13	9.70
22 11 16 00-1338	EA	1-1/4" x 1" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	56.45	10.44
22 11 16 00-1339	EA	1-1/4" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	82.32	10.44
22 11 16 00-1340	EA	1-1/2" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	86.66	11.60
22 11 16 00-1341	EA	1-1/2" x 1-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	101.39	11.60
22 11 16 00-1342	EA	2" x 1-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	116.28	11.83
22 11 16 00-1343	EA	2" x 2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	131.98	11.83
22 11 16 00-1344	EA	2-1/2" x 2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	143.36	16.22
22 11 16 00-1345	EA	2-1/2" x 2-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	198.49	16.22
22 11 16 00-1346	EA	3" x 3" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	296.37	18.70
22 11 16 00-1347	EA	3-1/2" x 4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	572.71	20.89
22 11 16 00-1348		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Elbow <small>(22 11 16 00-1078)</small>		
22 11 16 00-1349	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	33.58	7.73
22 11 16 00-1350	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	27.57	7.73
22 11 16 00-1351	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	34.39	8.14
22 11 16 00-1352	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	28.38	8.14
22 11 16 00-1353	EA	1" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	39.45	9.70
22 11 16 00-1354	EA	1" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	62.79	9.70
22 11 16 00-1355		Polypropylene Random (PP-R), Heat Fusion, Transition Male/Female x FIP NPT Street Elbow <small>(22 11 16 00-1078)</small>		
22 11 16 00-1356	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition Male/Female x FIP NPT Street Elbow.....	27.57	7.73
22 11 16 00-1357		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Elbow <small>(22 11 16 00-1078)</small>		
22 11 16 00-1358	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	30.57	7.73
22 11 16 00-1359	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	32.51	7.73
22 11 16 00-1360	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	33.32	8.14
22 11 16 00-1361	EA	1" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	41.67	9.70
22 11 16 00-1362	EA	1" x 1" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	59.02	9.70
22 11 16 00-1363		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Tee <small>(22 11 16 00-1078)</small>		
22 11 16 00-1364	EA	1/2" x 1/2" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Tee	37.54	11.60
22 11 16 00-1365	EA	1/2" x 1/2" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	42.29	11.60
22 11 16 00-1366	EA	3/4" x 3/4" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Tee	38.69	12.17
22 11 16 00-1367	EA	3/4" x 3/4" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	43.44	12.17
22 11 16 00-1368	EA	1" x 1" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	51.25	14.49
22 11 16 00-1369	EA	1" x 1" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Tee	72.57	14.49
22 11 16 00-1370	EA	1-1/2" x 1-1/2" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Tee.....	83.94	17.43
22 11 16 00-1371		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Tee <small>(22 11 16 00-1078)</small>		
22 11 16 00-1372	EA	1/2" x 1/2" x 1/2" Polypropylene, Heat Fusion, Transition MIP NPT Tee	40.74	11.60
22 11 16 00-1373		Polypropylene Random (PP-R), Heat Fusion, Transition PP-R x Brass Compression Fitting <small>(22 11 16 00-1078)</small>		
22 11 16 00-1374	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition PP-R x Brass Compression Fitting.....	30.70	3.87
22 11 16 00-1375		Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x FIP NPT <small>(22 11 16 00-1078)</small>		
22 11 16 00-1376	EA	1/2" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	26.37	
22 11 16 00-1377	EA	3/4" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	34.29	
22 11 16 00-1378	EA	1" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	47.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1379 Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x MIP NPT <small>(22 11 16 00-1078)</small>		
22 11 16 00-1380 EA 1/2" Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	31.02	
22 11 16 00-1381 EA 3/4" Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	42.90	
22 11 16 00-1382 Polypropylene Random (PP-R), Heat Fusion, PEX Adaptor <small>(22 11 16 00-1078)</small>		
22 11 16 00-1383 EA 1/2" Polypropylene, Heat Fusion, PEX Adaptor	21.19	3.87
22 11 16 00-1384 EA 3/4" Polypropylene, Heat Fusion, PEX Adaptor	32.63	4.04
22 11 16 00-1385 EA 1" Polypropylene, Heat Fusion, PEX Adaptor	42.96	4.84
22 11 16 00-1386 Polypropylene Random (PP-R), Heat Fusion, FIP Stop Valve Body <small>(22 11 16 00-1078)</small>		
22 11 16 00-1387 EA 1/2" Polypropylene, Heat Fusion, FIP Stop Valve Body	27.36	8.48
22 11 16 00-1388 EA 3/4" Polypropylene, Heat Fusion, FIP Stop Valve Body	28.28	8.95
22 11 16 00-1389 EA 1" Polypropylene, Heat Fusion, FIP Stop Valve Body	41.09	10.62
22 11 16 00-1390 EA 1-1/4" Polypropylene, Heat Fusion, FIP Stop Valve Body	65.45	11.49
22 11 16 00-1391 Polypropylene Random (PP-R), Heat Fusion, Inclined Check Valve <small>(22 11 16 00-1078)</small>		
22 11 16 00-1392 EA 1/2" Polypropylene, Heat Fusion, Inclined Check Valve	87.34	8.48
22 11 16 00-1393 EA 3/4" Polypropylene, Heat Fusion, Inclined Check Valve	88.26	8.95
22 11 16 00-1394 EA 1" Polypropylene, Heat Fusion, Inclined Check Valve	105.51	10.62
22 11 16 00-1395 EA 1-1/4" Polypropylene, Heat Fusion, Inclined Check Valve	176.04	11.49
22 11 16 00-1396 Polypropylene Random (PP-R), Heat Fusion, Ball Valve <small>(22 11 16 00-1078)</small>		
22 11 16 00-1397 EA 1/2" Polypropylene, Heat Fusion, Ball Valve	80.45	8.48
22 11 16 00-1398 EA 3/4" Polypropylene, Heat Fusion, Ball Valve	89.36	8.95
22 11 16 00-1399 EA 1" Polypropylene, Heat Fusion, Ball Valve	108.50	10.62
22 11 16 00-1400 EA 1-1/4" Polypropylene, Heat Fusion, Ball Valve	154.92	11.49
22 11 16 00-1401 EA 1-1/2" Polypropylene, Heat Fusion, Ball Valve	227.20	12.76
22 11 16 00-1402 EA 2" Polypropylene, Heat Fusion, Ball Valve	348.67	13.05
22 11 16 00-1403 Extension For Ball Valve <small>(22 11 16 00-1078)</small>		
22 11 16 00-1404 EA Extension For 1/2" to 3/4" Ball Valve, 1-3/8" Length	42.02	
22 11 16 00-1405 EA Extension For 1" to 1-1/4" Ball Valve, 1-3/8" Length	42.09	
22 11 16 00-1406 EA Extension For 1-1/2" to 2" Ball Valve, 1-3/4" Length	46.18	
22 11 16 00-1407 Polypropylene Random (PP-R), Heat Fusion, Draining Branch <small>(22 11 16 00-1078)</small>		
22 11 16 00-1408 EA 1/2" Polypropylene, Heat Fusion, Draining Branch	37.19	7.73
22 11 16 00-1409 EA 3/4" Polypropylene, Heat Fusion, Draining Branch	38.00	8.14
22 11 16 00-1410 EA 1" Polypropylene, Heat Fusion, Draining Branch	43.42	9.70
22 11 16 00-1411 EA 1-1/4" Polypropylene, Heat Fusion, Draining Branch	44.92	10.44
22 11 16 00-1412 EA 1-1/2" Polypropylene, Heat Fusion, Draining Branch	49.24	11.60
22 11 16 00-1413 EA 2" Polypropylene, Heat Fusion, Draining Branch	53.18	11.83
22 11 19 Domestic Water Piping Specialties <small>(22 11)</small>		
22 11 19 00-0001 Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002 General Purpose Hose <small>(22 11 19 00-0001)</small>		
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	9.15	2.46
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	10.93	2.46
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	13.63	2.46
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	13.77	2.46
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	19.25	3.68
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	32.86	3.68
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	35.68	4.92
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	70.18	4.92
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small>		
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	94.13	4.92
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	111.26	4.92
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	156.52	6.05
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	220.43	8.17
22 11 19 00-0016 Chemical Resistant Rubber Hoses <small>(22 11 19 00-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,276.34	310.48
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,705.73	310.48
22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose	772.85	75.09
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose	821.02	75.09
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	30.49	10.32
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	32.36	11.06
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	34.64	11.80
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	39.44	13.27
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	47.14	16.22
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	55.88	19.42
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	72.04	25.56
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	90.68	31.96
22 11 19 00-0031 Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp	13.91	3.68
22 11 19 00-0033 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp	14.68	3.68
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	15.48	3.68
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp	16.45	3.68
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp	17.54	3.68
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	19.10	4.92
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp	20.55	4.92
22 11 19 00-0039 Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040 Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	329.09	18.55
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	201.65	12.37
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500)	195.22	12.37
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)	166.57	24.73
Note: Can be used for two, three or four drains.		
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)	183.88	24.73
Note: Can be used for two, three or four drains.		
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Trap Primer Manifold	263.81	33.26
22 11 19 00-0049 EA Four Outlet Trap Primer Manifold	400.44	37.83
22 11 19 00-0050 EA Six Outlet Trap Primer Manifold	534.12	40.06
22 11 19 00-0051 EA Eight Outlet Trap Primer Manifold	672.29	46.99
22 11 19 00-0052 Brass, Anti Siphon Vacuum Breakers (22 11 19)		
Note: Watts 288A		
22 11 19 00-0053 EA 1/2" Brass, Anti Siphon Vacuum Breaker	116.61	30.92
22 11 19 00-0054 EA 3/4" Brass, Anti Siphon Vacuum Breaker	134.11	34.62
22 11 19 00-0055 EA 1" Brass, Anti Siphon Vacuum Breaker	278.05	39.57
22 11 19 00-0056 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker	444.08	45.75
22 11 19 00-0057 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker	530.55	50.70
22 11 19 00-0058 EA 2" Brass, Anti Siphon Vacuum Breaker	777.91	61.82
22 11 19 00-0059 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker	2,048.72	77.28
22 11 19 00-0060 Anti Siphon Pressure Vacuum Breakers (22 11 19)		
Note: Watts 800M4QT		
22 11 19 00-0061 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker	348.69	30.92
22 11 19 00-0062 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker	304.08	34.62
22 11 19 00-0063 EA 1" Anti Siphon Pressure Type Vacuum Breaker	435.90	39.57
22 11 19 00-0064 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker	791.37	45.75
22 11 19 00-0065 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker	963.94	50.70
22 11 19 00-0066 EA 2" Anti Siphon Pressure Type Vacuum Breaker	972.05	61.82
22 11 19 00-0067 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0068 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	168.63	14.79
22 11 19 00-0069 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	319.25	17.89
22 11 19 00-0070 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	459.08	17.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0071 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,097.41	17.89
22 11 19 00-0072 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	1,230.59	17.89
22 11 19 00-0073 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	1,504.40	17.89
22 11 19 00-0074 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0075 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0074)		
22 11 19 00-0076 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A)	193.92	8.24
22 11 19 00-0077 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B)	373.90	9.51
22 11 19 00-0078 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	556.52	10.30
22 11 19 00-0079 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D)	1,371.77	13.29
22 11 19 00-0080 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E)	1,670.69	16.49
22 11 19 00-0081 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F)	1,901.30	17.89
22 11 19 00-0082 Escutcheons (22 11 19)		
22 11 19 00-0083 Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0084 Shallow Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0085 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	13.77	3.09
22 11 19 00-0086 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	14.82	3.09
22 11 19 00-0087 Deep Bell Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0088 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	16.19	3.46
22 11 19 00-0089 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	16.23	3.46
22 11 19 00-0090 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0083)		
22 11 19 00-0091 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.39	3.09
22 11 19 00-0092 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.63	3.09
22 11 19 00-0093 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.00	3.09
22 11 19 00-0094 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.31	3.09
22 11 19 00-0095 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.70	3.71
22 11 19 00-0096 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.99	3.71
22 11 19 00-0097 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.97	4.08
22 11 19 00-0098 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	29.24	4.33
22 11 19 00-0099 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	41.98	4.95
22 11 19 00-0100 Plastic Escutcheons (22 11 19 00-0082)		
22 11 19 00-0101 Split-Ring White Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0102 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	7.63	3.07
22 11 19 00-0103 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	7.63	3.07
22 11 19 00-0104 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	8.93	3.44
22 11 19 00-0105 EA 1" IPS, Split-Ring White Plastic Escutcheon	9.68	3.68
22 11 19 00-0106 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.43	4.05
22 11 19 00-0107 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.12	4.30
22 11 19 00-0108 EA 2" IPS, Split-Ring White Plastic Escutcheon	12.53	4.92
22 11 19 00-0109 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	16.24	5.28
22 11 19 00-0110 EA 3" IPS, Split-Ring White Plastic Escutcheon	19.96	5.53
22 11 19 00-0111 EA 4" IPS, Split-Ring White Plastic Escutcheon	24.29	6.15
22 11 19 00-0112 Chrome Plate Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0113 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	10.17	3.07
22 11 19 00-0114 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	11.11	3.44
22 11 19 00-0115 EA 1" IPS, Chrome Plate Plastic Escutcheon	12.49	3.68
22 11 19 00-0116 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	13.86	4.05
22 11 19 00-0117 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	14.58	4.30
22 11 19 00-0118 EA 2" IPS, Chrome Plate Plastic Escutcheon	18.42	4.92
22 11 19 00-0119 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	26.86	5.28
22 11 19 00-0120 EA 3" IPS, Chrome Plate Plastic Escutcheon	27.80	5.53
22 11 19 00-0121 EA 4" IPS, Chrome Plate Plastic Escutcheon	29.68	6.15
22 11 19 00-0122 Stainless Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0123 Shallow Stainless Steel Escutcheons (22 11 19 00-0122)		
22 11 19 00-0124 EA 3/8" IPS, Shallow Stainless Steel Escutcheon	18.98	3.09



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0125	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	18.98	3.09
22 11 19 00-0126	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	26.96	3.46
22 11 19 00-0127			Chrome Plated Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0128			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0129	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.90	3.07
22 11 19 00-0130	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.51	3.44
22 11 19 00-0131	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.28	3.68
22 11 19 00-0132	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.89	4.05
22 11 19 00-0133	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.50	4.30
22 11 19 00-0134	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.94	4.92
22 11 19 00-0135	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	16.59	5.28
22 11 19 00-0136	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	17.63	5.53
22 11 19 00-0137	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	21.75	5.90
22 11 19 00-0138	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.22	6.15
22 11 19 00-0139	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	24.84	6.76
22 11 19 00-0140	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	29.00	7.38
22 11 19 00-0141			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0142	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.12	3.07
22 11 19 00-0143	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.12	3.07
22 11 19 00-0144	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.89	3.44
22 11 19 00-0145	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.70	3.68
22 11 19 00-0146	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.22	4.05
22 11 19 00-0147	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	15.04	4.30
22 11 19 00-0148	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.84	4.92
22 11 19 00-0149	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.54	5.28
22 11 19 00-0150	EA		3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	25.14	5.53
22 11 19 00-0151	EA		3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	30.93	5.90
22 11 19 00-0152	EA		4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	31.39	6.15
22 11 19 00-0153	EA		5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	51.99	6.76
22 11 19 00-0154	EA		6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	54.27	7.38
22 11 19 00-0155			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0156	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.47	3.46
22 11 19 00-0157	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.35	3.46
22 11 19 00-0158	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.09	3.46
22 11 19 00-0159	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.99	3.71
22 11 19 00-0160	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.77	4.08
22 11 19 00-0161	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.74	4.33
22 11 19 00-0162			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0163	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.60	3.09
22 11 19 00-0164	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.60	3.09
22 11 19 00-0165	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.72	3.09
22 11 19 00-0166	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.25	3.71
22 11 19 00-0167	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.93	4.08
22 11 19 00-0168	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.89	4.33
22 11 19 00-0169	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.23	4.95
22 11 19 00-0170			Wall Hydrants (22 11 19)		
			Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171			Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0170)		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0172	EA		6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,177.77	30.92
			For Cast Bronze Box, Add	62.29	
			For 1" NPT Outlet, Add	146.82	
22 11 19 00-0173	EA		12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,235.10	37.10
			For Cast Bronze Box, Add	62.29	
			For 1" NPT Outlet, Add	146.82	
22 11 19 00-0174	EA		18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,260.42	44.64
			For Cast Bronze Box, Add	62.29	
			For 1" NPT Outlet, Add	146.82	
22 11 19 00-0175			Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0170)		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176	EA		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,142.82	51.94
			For Cast Bronze Box, Add	62.29	
			For 1" NPT Outlet, Add	146.82	



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0177		Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0170)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0178	EA	3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	598.82	38.33
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0179	EA	4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	756.54	38.33
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0180	EA	6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	756.54	38.33
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0181	EA	8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	756.54	38.33
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0182	EA	10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	793.25	77.28
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0183	EA	12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	793.25	77.28
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0184	EA	18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	903.05	77.28
		<i>For 1" NPT Outlet, Add</i>	146.82	
22 11 19 00-0185		Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0170)</small> Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0186	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	565.76	30.92
22 11 19 00-0187	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	620.78	30.92
22 11 19 00-0188	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	628.29	30.92
22 11 19 00-0189	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	710.83	30.92
22 11 19 00-0190	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	1,009.08	43.28
		Note: Includes hot and cold hose connections.		
22 11 19 00-0191	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	1,041.59	43.28
		Note: Includes hot and cold hose connections.		
22 11 19 00-0192	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	1,041.59	43.28
		Note: Includes hot and cold hose connections.		
22 11 19 00-0193	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	1,119.13	43.28
		Note: Includes hot and cold hose connections.		
22 11 19 00-0194		Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		
22 11 19 00-0195		Dryer Vent Kit <small>(22 11 19 00-0194)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0196	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps.....	85.26	16.07
22 11 19 00-0197		Washer Boxes And Dryer Vents <small>(22 11 19 00-0194)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0198	EA	2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves.....	301.30	24.73
22 11 19 00-0199		Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0200	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	160.81	24.73
22 11 19 00-0201	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount.....	163.76	24.73
22 11 19 00-0202	EA	Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	240.66	24.73
22 11 19 00-0203		Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0204		Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0205	EA	1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	577.44	29.94
22 11 19 00-0206	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	144.29	29.94
22 11 19 00-0207	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	325.82	29.94
22 11 19 00-0208	EA	3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	372.68	40.33
22 11 19 00-0209		Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0210	EA	3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	1,576.92	43.18
22 11 19 00-0211	EA	3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045).....	1,768.91	53.18
22 11 19 00-0212	EA	1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	2,127.07	61.86
22 11 19 00-0213	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	2,760.81	65.02
22 11 19 00-0214	EA	2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....	3,707.21	84.36
22 11 19 00-0215		High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0216	EA	3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045).....	4,030.12	66.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0217	EA		1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	5,247.54	77.33
22 11 19 00-0218	EA		1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	6,121.99	81.28
22 11 19 00-0219	EA		2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	6,778.70	105.44
22 11 19 00-0220			Thermostatic Mixing Valves (Leonard) (22 11 19 00-0203) Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0221	EA		3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF)..... Note: For hot water or two pipe low pressure steam.	1,142.39	43.18
22 11 19 00-0222	EA		1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF)..... Note: For hot water or two pipe low pressure steam.	1,344.46	53.18
22 11 19 00-0223	EA		1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF)..... Note: For hot water or two pipe low pressure steam.	1,653.15	61.86
22 11 19 00-0224	EA		1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF)..... Note: For hot water or two pipe low pressure steam.	2,023.60	65.04
22 11 19 00-0225	EA		2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF)..... Note: For hot water or two pipe low pressure steam.	3,009.06	84.36
22 11 19 00-0226			Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0203) Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0227	EA		3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,270.13	61.82
22 11 19 00-0228	EA		1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,464.34	77.90
22 11 19 00-0229	EA		1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,815.37	93.97
22 11 19 00-0230	EA		1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,199.54	110.05
22 11 19 00-0231	EA		2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,994.41	144.67
22 11 19 00-0232	EA		2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,897.12	165.03
22 11 19 00-0233			Thermostatic Mixing Valves (Holby) (22 11 19 00-0203)		
22 11 19 00-0234	EA		2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	5,372.55	84.38
22 11 19 00-0235			Backflow Preventer Valves (22 11 19)		
22 11 19 00-0236			Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0235)		
22 11 19 00-0237			Threaded Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0238			Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0237) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	479.08 24.86 -396.23	33.14
22 11 19 00-0240	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	564.77 35.24 -447.30	46.99
22 11 19 00-0241	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	650.94 43.03 -507.50	57.37
22 11 19 00-0242	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	912.53 50.08 -745.60	66.77
22 11 19 00-0243	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,130.58 57.13 -940.15	76.67
22 11 19 00-0244	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,301.34 74.19 -1,054.03	98.92
22 11 19 00-0245			Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0237) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	592.46 24.86 -509.61	33.14
22 11 19 00-0247	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	730.83 35.24 -613.36	46.99
22 11 19 00-0248	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	854.52 43.03 -711.08	57.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0249	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,202.60	66.77
				<i>For Work In Restricted Working Space, Add</i>	50.08	
				<i>For Owner Furnished Material, Deduct</i>	-1,035.67	
	22 11 19 00-0250	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,472.23	76.67
				<i>For Work In Restricted Working Space, Add</i>	57.13	
				<i>For Owner Furnished Material, Deduct</i>	-1,281.80	
	22 11 19 00-0251	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,773.02	98.92
				<i>For Work In Restricted Working Space, Add</i>	74.19	
				<i>For Owner Furnished Material, Deduct</i>	-1,525.71	
	22 11 19 00-0252			Flanged Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
	22 11 19 00-0253			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
	22 11 19 00-0254	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	6,496.94	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-6,132.50	
	22 11 19 00-0255	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	7,138.43	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.29	
				<i>For Owner Furnished Material, Deduct</i>	-6,734.13	
	22 11 19 00-0256			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
	22 11 19 00-0257	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	7,120.27	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-6,755.83	
	22 11 19 00-0258	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	8,177.31	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.29	
				<i>For Owner Furnished Material, Deduct</i>	-7,773.01	
	22 11 19 00-0259			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
	22 11 19 00-0260	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,541.89	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-6,177.47	
	22 11 19 00-0261	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,983.70	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.30	
				<i>For Owner Furnished Material, Deduct</i>	-4,579.38	
	22 11 19 00-0262	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	7,803.27	455.54
				<i>For Work In Restricted Working Space, Add</i>	182.12	
				<i>For Owner Furnished Material, Deduct</i>	-7,196.20	
	22 11 19 00-0263	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	11,835.95	665.06
				<i>For Work In Restricted Working Space, Add</i>	360.42	
				<i>For Owner Furnished Material, Deduct</i>	-10,634.56	
	22 11 19 00-0264	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	27,091.86	997.58
				<i>For Work In Restricted Working Space, Add</i>	540.71	
				<i>For Owner Furnished Material, Deduct</i>	-25,289.49	
	22 11 19 00-0265	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	34,806.16	1,179.94
				<i>For Work In Restricted Working Space, Add</i>	643.60	
				<i>For Owner Furnished Material, Deduct</i>	-32,660.82	
	22 11 19 00-0266			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
	22 11 19 00-0267	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	9,119.65	455.54
				<i>For Work In Restricted Working Space, Add</i>	182.11	
				<i>For Owner Furnished Material, Deduct</i>	-8,512.63	
	22 11 19 00-0268	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	15,144.12	665.06
				<i>For Work In Restricted Working Space, Add</i>	360.42	
				<i>For Owner Furnished Material, Deduct</i>	-13,942.73	
	22 11 19 00-0269	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	40,449.89	1,179.94
				<i>For Work In Restricted Working Space, Add</i>	643.60	
				<i>For Owner Furnished Material, Deduct</i>	-38,304.55	
	22 11 19 00-0270			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
	22 11 19 00-0271	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,949.69	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-6,585.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0272	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series)	7,636.16	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-7,231.86	
22 11 19 00-0273	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	8,280.79	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-7,673.77	
22 11 19 00-0274	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	13,866.45	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-12,665.06	
22 11 19 00-0275	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	28,777.87	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-26,975.78	
22 11 19 00-0276	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series)	36,981.97	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
			<i>For Owner Furnished Material, Deduct</i>	-34,836.63	
22 11 19 00-0277			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	4,132.46	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
			<i>For Owner Furnished Material, Deduct</i>	-3,768.04	
22 11 19 00-0279	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	4,549.36	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-4,145.06	
22 11 19 00-0280	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	5,129.10	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,522.08	
22 11 19 00-0281	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	8,272.30	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-7,070.91	
22 11 19 00-0282	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	15,781.87	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-13,979.78	
22 11 19 00-0283	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series)	17,104.70	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
			<i>For Owner Furnished Material, Deduct</i>	-14,959.36	
22 11 19 00-0284			N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	5,469.44	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
			<i>For Owner Furnished Material, Deduct</i>	-5,105.02	
22 11 19 00-0286	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	5,886.34	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-5,482.04	
22 11 19 00-0287	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series)	7,363.24	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,756.22	
22 11 19 00-0288	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	12,012.35	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-10,810.96	
22 11 19 00-0289	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	21,325.01	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-19,522.92	
22 11 19 00-0290	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series)	25,376.44	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
			<i>For Owner Furnished Material, Deduct</i>	-23,231.10	
22 11 19 00-0291			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves ^(22 11 19 00-0252)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS Series).		
22 11 19 00-0292	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	3,866.54	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
			<i>For Owner Furnished Material, Deduct</i>	-3,502.12	
22 11 19 00-0293	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	4,295.53	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-3,891.23	
22 11 19 00-0294	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	4,887.21	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,280.19	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0295	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,082.28 360.42 -6,880.89	665.06
22 11 19 00-0296	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	15,598.75 540.63 -13,796.66	997.58
22 11 19 00-0297	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	17,616.00 643.60 -15,470.66	1,179.94
22 11 19 00-0298			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0299	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,091.41 109.33 -4,726.99	273.33
22 11 19 00-0300	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,508.31 121.29 -5,104.01	307.49
22 11 19 00-0301	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,508.31 182.11 -6,378.66	455.54
22 11 19 00-0302	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,610.21 360.42 -10,408.82	665.06
22 11 19 00-0303	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	20,716.33 540.63 -18,914.24	997.58
22 11 19 00-0304	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	24,765.99 643.60 -22,620.65	1,179.94
22 11 19 00-0305			Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0306	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,495.45 109.33 -4,131.03	273.33
22 11 19 00-0307	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,912.35 121.29 -4,508.05	307.49
22 11 19 00-0308	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,492.09 182.11 -4,885.07	455.54
22 11 19 00-0309	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,644.44 360.42 -7,443.05	665.06
22 11 19 00-0310	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	16,154.01 540.63 -14,351.92	997.58
22 11 19 00-0311			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0312	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,832.43 109.33 -5,468.01	273.33
22 11 19 00-0313	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,249.33 121.29 -5,845.03	307.49
22 11 19 00-0314	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,726.23 182.11 -7,119.21	455.54
22 11 19 00-0315	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,384.57 360.42 -11,183.18	665.06
22 11 19 00-0316	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	16,154.01 540.63 -14,351.92	997.58
22 11 19 00-0317			Grooved Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
22 11 19 00-0318			Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0317)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0319	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,866.54 109.33 -3,502.12	145.78

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0320	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,295.53 121.29 -3,891.23	161.72
22 11 19 00-0321			N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0317)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0322	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,091.41 109.33 -4,726.99	145.78
22 11 19 00-0323	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,508.31 121.29 -5,104.01	161.72
22 11 19 00-0324			Reduced Pressure Zone Backflow Preventer Assemblies <small>(22 11 19 00-0235)</small>		
22 11 19 00-0325			Threaded Reduced Pressure Zone Assemblies <small>(22 11 19 00-0324)</small>		
22 11 19 00-0326			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0327	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	532.56 21.52 -460.84	28.69
22 11 19 00-0328	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	562.36 23.74 -483.22	31.65
22 11 19 00-0329	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	655.27 24.86 -572.42	33.14
22 11 19 00-0330	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	879.82 35.24 -762.35	46.99
22 11 19 00-0331	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,043.76 43.03 -900.32	57.37
22 11 19 00-0332	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,579.26 50.08 -1,412.33	66.77
22 11 19 00-0333	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,669.19 57.13 -1,478.76	76.67
22 11 19 00-0334	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,002.09 74.19 -1,754.78	98.92
22 11 19 00-0335			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0336	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	588.35 21.52 -516.63	28.69
22 11 19 00-0337	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	621.16 23.74 -542.02	31.65
22 11 19 00-0338	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	735.84 24.86 -652.99	46.99
22 11 19 00-0339	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,006.45 35.24 -888.98	46.99
22 11 19 00-0340	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,202.09 43.03 -1,058.65	57.37
22 11 19 00-0341	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,795.19 50.08 -1,628.26	66.77
22 11 19 00-0342	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,973.91 57.13 -1,783.48	76.67
22 11 19 00-0343	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,375.94 74.19 -2,128.63	98.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0344 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0345 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	879.82	46.99
<i>For Work In Restricted Working Space, Add</i>		
	35.24	
<i>For Owner Furnished Material, Deduct</i>		
	-762.35	
22 11 19 00-0346 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,043.76	57.37
<i>For Work In Restricted Working Space, Add</i>		
	43.03	
<i>For Owner Furnished Material, Deduct</i>		
	-900.32	
22 11 19 00-0347 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,579.26	66.77
<i>For Work In Restricted Working Space, Add</i>		
	50.08	
<i>For Owner Furnished Material, Deduct</i>		
	-1,412.33	
22 11 19 00-0348 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,669.19	76.67
<i>For Work In Restricted Working Space, Add</i>		
	57.13	
<i>For Owner Furnished Material, Deduct</i>		
	-1,478.76	
22 11 19 00-0349 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	2,002.09	98.92
<i>For Work In Restricted Working Space, Add</i>		
	74.19	
<i>For Owner Furnished Material, Deduct</i>		
	-1,754.78	
22 11 19 00-0350 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0351 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,006.45	46.99
<i>For Work In Restricted Working Space, Add</i>		
	35.24	
<i>For Owner Furnished Material, Deduct</i>		
	-888.98	
22 11 19 00-0352 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,202.09	57.37
<i>For Work In Restricted Working Space, Add</i>		
	43.03	
<i>For Owner Furnished Material, Deduct</i>		
	-1,058.65	
22 11 19 00-0353 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,795.19	66.77
<i>For Work In Restricted Working Space, Add</i>		
	50.08	
<i>For Owner Furnished Material, Deduct</i>		
	-1,628.26	
22 11 19 00-0354 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,973.91	76.67
<i>For Work In Restricted Working Space, Add</i>		
	57.13	
<i>For Owner Furnished Material, Deduct</i>		
	-1,783.48	
22 11 19 00-0355 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	2,375.94	98.92
<i>For Work In Restricted Working Space, Add</i>		
	74.19	
<i>For Owner Furnished Material, Deduct</i>		
	-2,128.63	
22 11 19 00-0356 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0357 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,820.32	46.99
<i>For Work In Restricted Working Space, Add</i>		
	35.24	
<i>For Owner Furnished Material, Deduct</i>		
	-1,702.85	
22 11 19 00-0358 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	2,154.47	57.37
<i>For Work In Restricted Working Space, Add</i>		
	43.03	
<i>For Owner Furnished Material, Deduct</i>		
	-2,011.03	
22 11 19 00-0359 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	3,317.49	66.77
<i>For Work In Restricted Working Space, Add</i>		
	50.08	
<i>For Owner Furnished Material, Deduct</i>		
	-3,150.56	
22 11 19 00-0360 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	3,586.10	76.67
<i>For Work In Restricted Working Space, Add</i>		
	57.13	
<i>For Owner Furnished Material, Deduct</i>		
	-3,395.67	
22 11 19 00-0361 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	4,158.99	98.92
<i>For Work In Restricted Working Space, Add</i>		
	74.19	
<i>For Owner Furnished Material, Deduct</i>		
	-3,911.68	
22 11 19 00-0362 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0363 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,453.30	46.99
<i>For Work In Restricted Working Space, Add</i>		
	35.24	
<i>For Owner Furnished Material, Deduct</i>		
	-2,335.83	
22 11 19 00-0364 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,916.16	57.37
<i>For Work In Restricted Working Space, Add</i>		
	43.03	
<i>For Owner Furnished Material, Deduct</i>		
	-2,772.72	
22 11 19 00-0365 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	4,448.13	66.77
<i>For Work In Restricted Working Space, Add</i>		
	50.08	
<i>For Owner Furnished Material, Deduct</i>		
	-4,281.20	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
22 11 19 00-0366	EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,858.65	76.67
	<i>For Work In Restricted Working Space, Add</i>	57.13	
	<i>For Owner Furnished Material, Deduct</i>	-4,668.22	
22 11 19 00-0367	EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,770.39	98.92
	<i>For Work In Restricted Working Space, Add</i>	74.19	
	<i>For Owner Furnished Material, Deduct</i>	-5,523.08	
22 11 19 00-0368	Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0324)</small>		
22 11 19 00-0369	Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	5,974.40	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-5,609.96	
22 11 19 00-0371	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,732.18	307.49
	<i>For Work In Restricted Working Space, Add</i>	121.29	
	<i>For Owner Furnished Material, Deduct</i>	-6,327.88	
22 11 19 00-0372	Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,124.93	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-6,760.49	
22 11 19 00-0374	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	8,068.77	307.49
	<i>For Work In Restricted Working Space, Add</i>	121.29	
	<i>For Owner Furnished Material, Deduct</i>	-7,664.47	
22 11 19 00-0375	Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,414.76	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-6,050.32	
22 11 19 00-0377	EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	7,464.05	307.49
	<i>For Work In Restricted Working Space, Add</i>	121.29	
	<i>For Owner Furnished Material, Deduct</i>	-7,059.75	
22 11 19 00-0378	Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,124.93	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-6,760.49	
22 11 19 00-0380	EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	8,068.77	307.49
	<i>For Work In Restricted Working Space, Add</i>	121.29	
	<i>For Owner Furnished Material, Deduct</i>	-7,664.47	
22 11 19 00-0381	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0382	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	7,911.06	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-7,546.62	
22 11 19 00-0383	EA 3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	9,155.72	307.49
	<i>For Work In Restricted Working Space, Add</i>	121.29	
	<i>For Owner Furnished Material, Deduct</i>	-8,751.42	
22 11 19 00-0384	Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0368)</small>		
	Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0385	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	10,271.01	273.33
	<i>For Work In Restricted Working Space, Add</i>	109.33	
	<i>For Owner Furnished Material, Deduct</i>	-9,906.59	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 11 19 00-0386 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,669.21	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.30	
				<i>For Owner Furnished Material, Deduct</i>	-11,264.89	
				22 11 19 00-0387 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	14,689.35	455.54
				<i>For Work In Restricted Working Space, Add</i>	182.12	
				<i>For Owner Furnished Material, Deduct</i>	-14,082.28	
				22 11 19 00-0388 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	22,143.15	665.06
				<i>For Work In Restricted Working Space, Add</i>	504.62	
				<i>For Owner Furnished Material, Deduct</i>	-20,461.09	
				22 11 19 00-0389 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	36,741.45	997.58
				<i>For Work In Restricted Working Space, Add</i>	756.92	
				<i>For Owner Furnished Material, Deduct</i>	-34,218.37	
				22 11 19 00-0390 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	47,466.80	1,179.94
				<i>For Work In Restricted Working Space, Add</i>	643.60	
				<i>For Owner Furnished Material, Deduct</i>	-45,321.46	
				22 11 19 00-0391 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0368)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
				22 11 19 00-0392 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	11,069.56	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-10,705.14	
				22 11 19 00-0393 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,509.60	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.29	
				<i>For Owner Furnished Material, Deduct</i>	-12,105.30	
				22 11 19 00-0394 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	15,977.82	455.54
				<i>For Work In Restricted Working Space, Add</i>	182.11	
				<i>For Owner Furnished Material, Deduct</i>	-15,370.80	
				22 11 19 00-0395 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	24,087.80	665.06
				<i>For Work In Restricted Working Space, Add</i>	360.42	
				<i>For Owner Furnished Material, Deduct</i>	-22,886.41	
				22 11 19 00-0396 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	39,014.76	997.58
				<i>For Work In Restricted Working Space, Add</i>	540.63	
				<i>For Owner Furnished Material, Deduct</i>	-37,212.67	
				22 11 19 00-0397 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	52,964.31	1,179.94
				<i>For Work In Restricted Working Space, Add</i>	643.60	
				<i>For Owner Furnished Material, Deduct</i>	-50,818.97	
				22 11 19 00-0398 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0368)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
				22 11 19 00-0399 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	10,928.45	273.33
				<i>For Work In Restricted Working Space, Add</i>	109.33	
				<i>For Owner Furnished Material, Deduct</i>	-10,564.03	
				22 11 19 00-0400 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	12,422.79	307.49
				<i>For Work In Restricted Working Space, Add</i>	121.30	
				<i>For Owner Furnished Material, Deduct</i>	-12,018.47	
				22 11 19 00-0401 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	15,625.89	455.54
				<i>For Work In Restricted Working Space, Add</i>	182.12	
				<i>For Owner Furnished Material, Deduct</i>	-15,018.82	
				22 11 19 00-0402 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	23,027.73	665.06
				<i>For Work In Restricted Working Space, Add</i>	360.42	
				<i>For Owner Furnished Material, Deduct</i>	-21,826.34	
				22 11 19 00-0403 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	38,302.74	997.58
				<i>For Work In Restricted Working Space, Add</i>	540.63	
				<i>For Owner Furnished Material, Deduct</i>	-36,500.65	
				22 11 19 00-0404 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	50,486.53	1,179.94
				<i>For Work In Restricted Working Space, Add</i>	643.60	
				<i>For Owner Furnished Material, Deduct</i>	-48,341.19	
				22 11 19 00-0405 Double Check Detector Assemblies <small>(22 11 19 00-0235)</small>		
				22 11 19 00-0406 Flanged Double Check Detector Assemblies With Meter <small>(22 11 19 00-0405)</small>		
				22 11 19 00-0407 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0406)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0408	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	8,192.89	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-7,788.59	
22 11 19 00-0409	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	8,576.33	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-7,969.31	
22 11 19 00-0410	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	11,549.82	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-10,348.43	
22 11 19 00-0411	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	20,507.47	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-18,705.38	
22 11 19 00-0412	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)	27,709.28	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
			<i>For Owner Furnished Material, Deduct</i>	-25,563.94	
22 11 19 00-0413			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0406)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0414	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	6,134.50	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
			<i>For Owner Furnished Material, Deduct</i>	-5,770.06	
22 11 19 00-0415	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	6,550.99	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-6,146.69	
22 11 19 00-0416	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	7,139.65	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,532.63	
22 11 19 00-0417	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	9,683.94	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-8,482.55	
22 11 19 00-0418	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	17,135.06	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-15,332.97	
22 11 19 00-0419	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series)	20,205.53	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
			<i>For Owner Furnished Material, Deduct</i>	-18,060.19	
22 11 19 00-0420			Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0406)</small>		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0421	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	6,497.56	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
			<i>For Owner Furnished Material, Deduct</i>	-6,133.12	
22 11 19 00-0422	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	6,914.06	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
			<i>For Owner Furnished Material, Deduct</i>	-6,509.76	
22 11 19 00-0423	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	7,502.64	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,895.62	
22 11 19 00-0424	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	10,056.07	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
			<i>For Owner Furnished Material, Deduct</i>	-8,854.68	
22 11 19 00-0425	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series)	16,688.57	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
			<i>For Owner Furnished Material, Deduct</i>	-14,886.48	
22 11 19 00-0426			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0405)</small>		
22 11 19 00-0427			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0426)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0428	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	6,019.86	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
22 11 19 00-0429	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	6,436.40	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0430	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	7,025.06	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
22 11 19 00-0431	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	9,569.35	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
22 11 19 00-0432	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	17,020.55	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
22 11 19 00-0433	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	20,090.86	1,179.94
			<i>For Work In Restricted Working Space, Add</i>	643.60	
22 11 19 00-0434			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0426)</small>		
			Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,382.90	273.33
			<i>For Work In Restricted Working Space, Add</i>	109.33	
22 11 19 00-0436	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,799.39	307.49
			<i>For Work In Restricted Working Space, Add</i>	121.29	
22 11 19 00-0437	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	7,388.05	455.54
			<i>For Work In Restricted Working Space, Add</i>	182.11	
22 11 19 00-0438	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	9,941.41	665.06
			<i>For Work In Restricted Working Space, Add</i>	360.42	
22 11 19 00-0439	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	17,392.68	997.58
			<i>For Work In Restricted Working Space, Add</i>	540.63	
22 11 19 00-0440			Backflow Preventer Accessories <small>(22 11 19 00-0235)</small>		
22 11 19 00-0441			Air Gap <small>(22 11 19 00-0440)</small>		
22 11 19 00-0442	EA		Up To 1" Diameter Air Gap For Backflow Preventer.....	136.36	15.46
22 11 19 00-0443	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer.....	167.82	18.55
22 11 19 00-0444	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer.....	315.56	24.73
22 11 19 00-0445	EA		4" To 6" Diameter Air Gap For Backflow Preventer.....	624.42	43.28
22 11 19 00-0446	EA		8" To 10" Diameter Air Gap For Backflow Preventer.....	661.52	61.82
22 11 19 00-0447			Brass Test Cocks <small>(22 11 19 00-0440)</small>		
22 11 19 00-0448	EA		1/8" Or 1/4" Brass Test Cock.....	55.51	6.18
22 11 19 00-0449			Backflow Valve Enclosures <small>(22 11 19 00-0235)</small>		
22 11 19 00-0450			Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0449)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,397.53	111.29
			<i>For Heated Enclosure, Add</i>	167.90	
22 11 19 00-0452	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,710.72	111.29
			<i>For Heated Enclosure, Add</i>	214.88	
22 11 19 00-0453	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,157.16	102.49
			<i>For Heated Enclosure, Add</i>	285.14	
22 11 19 00-0454	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,250.75	136.66
			<i>For Heated Enclosure, Add</i>	286.36	
22 11 19 00-0455	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,356.96	136.66
			<i>For Heated Enclosure, Add</i>	302.30	
22 11 19 00-0456	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,770.92	136.66
			<i>For Heated Enclosure, Add</i>	364.39	
22 11 19 00-0457	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,781.81	136.66
			<i>For Heated Enclosure, Add</i>	366.02	
22 11 19 00-0458	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	3,487.16	136.66
			<i>For Heated Enclosure, Add</i>	471.83	
22 11 19 00-0459	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	7,999.06	205.00
			<i>For Heated Enclosure, Add</i>	1,122.99	
22 11 19 00-0460	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	11,558.52	205.00
			<i>For Heated Enclosure, Add</i>	1,656.90	
22 11 19 00-0461	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	10,986.61	205.00
			<i>For Heated Enclosure, Add</i>	1,571.12	
22 11 19 00-0462	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	13,226.22	239.16
			<i>For Heated Enclosure, Add</i>	1,894.25	
22 11 19 00-0463			One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0449)</small>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	730.31	29.68
			<i>For Heated Enclosure, Add</i>	136.17	
22 11 19 00-0465	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,018.99	29.68
			<i>For Heated Enclosure, Add</i>	193.90	
22 11 19 00-0466	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,281.97	27.33
			<i>For Heated Enclosure, Add</i>	247.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0467	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,941.03	27.33
			<i>For Heated Enclosure, Add</i>	379.09	
22 11 19 00-0468	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	5,031.08	51.25
			<i>For Heated Enclosure, Add</i>	989.13	
22 11 19 00-0469	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	6,874.81	51.25
			<i>For Heated Enclosure, Add</i>	1,357.88	
22 11 19 00-0470	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,573.55	51.25
			<i>For Heated Enclosure, Add</i>	897.63	
22 11 19 00-0471	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	5,178.14	51.25
			<i>For Heated Enclosure, Add</i>	1,018.54	
22 11 19 00-0472	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	8,111.22	51.25
			<i>For Heated Enclosure, Add</i>	1,605.16	
22 11 19 00-0473 Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0449)</small>					
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
22 11 19 00-0474	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,349.34	205.00
			<i>For Heated Enclosure, Add</i>	1,475.53	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0475	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,403.29	205.00
			<i>For Heated Enclosure, Add</i>	1,633.62	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0476	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,127.06	205.00
			<i>For Heated Enclosure, Add</i>	1,142.19	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0477	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,905.95	205.00
			<i>For Heated Enclosure, Add</i>	1,259.02	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0478	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,375.83	273.33
			<i>For Heated Enclosure, Add</i>	1,453.88	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0479	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,623.14	273.33
			<i>For Heated Enclosure, Add</i>	1,640.97	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0480	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,623.14	273.33
			<i>For Heated Enclosure, Add</i>	1,640.97	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0481	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,832.32	273.33
			<i>For Heated Enclosure, Add</i>	1,822.35	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0482	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,647.70	239.16
			<i>For Heated Enclosure, Add</i>	1,357.47	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0483	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,293.61	273.33
			<i>For Heated Enclosure, Add</i>	1,591.54	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0484	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,180.91	273.33
			<i>For Heated Enclosure, Add</i>	1,874.64	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0485	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	14,465.47	290.42
			<i>For Heated Enclosure, Add</i>	2,060.92	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0486	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	14,778.66	290.42
			<i>For Heated Enclosure, Add</i>	2,107.90	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0487	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	16,379.14	307.49
			<i>For Heated Enclosure, Add</i>	2,341.56	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0488	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure.....	17,002.80	307.49
			<i>For Heated Enclosure, Add</i>	2,435.11	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0489	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,363.90	273.33
			<i>For Heated Enclosure, Add</i>	1,752.09	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	
22 11 19 00-0490	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,172.74	273.33
			<i>For Heated Enclosure, Add</i>	1,873.41	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	826.65	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,479.27	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0491	EA			72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	14,898.49 2,125.87 826.65 1,479.27	290.42
22 11 19 00-0492	EA			72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	18,040.41 2,590.75 826.65 1,479.27	307.49
22 11 19 00-0493	EA			118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	15,755.49 2,248.01 826.65 1,479.27	307.49
22 11 19 00-0494	EA			142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	18,916.47 2,715.75 826.65 1,479.27	324.58
22 11 19 00-0495	EA			118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	18,292.82 2,622.21 826.65 1,479.27	324.58
22 11 19 00-0496	EA			142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	21,176.01 3,048.28 826.65 1,479.27	341.66
22 11 19 00-0497	EA			142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	19,582.83 2,809.30 826.65 1,479.27	341.66
22 11 19 00-0498	EA			172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	22,836.41 3,290.93 826.65 1,479.27	358.75
22 11 19 00-0499	EA			142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	22,879.12 3,290.93 826.65 1,479.27	375.82
22 11 19 00-0500	EA			172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	27,102.22 3,917.99 826.65 1,479.27	392.91
22 11 19 00-0501				Faucets (Hose Bibbs) <small>(22 11 19)</small>		
22 11 19 00-0502				Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <small>(22 11 19 00-0501)</small>		
22 11 19 00-0503	EA			1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	66.74	12.37
22 11 19 00-0504	EA			3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	77.12	13.60
22 11 19 00-0505	EA			3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL)	19.85	9.27
22 11 19 00-0506				Chrome Plated Brass Hose Valves, Screwed Ends <small>(22 11 19 00-0501)</small>		
22 11 19 00-0507	EA			3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP).....	223.62	37.83
22 11 19 00-0508				Antisiphon Freezeless Wall Faucet (Woodford 19CP) <small>(22 11 19 00-0501)</small>		
22 11 19 00-0509	EA			4" Long, 1/2" Antisiphon Freezeless Wall Faucet	143.39	30.92
22 11 19 00-0510	EA			6" Long, 1/2" Antisiphon Freezeless Wall Faucet	155.59	34.25
22 11 19 00-0511	EA			8" Long, 1/2" Antisiphon Freezeless Wall Faucet	164.69	36.23
22 11 19 00-0512	EA			10" Long, 1/2" Antisiphon Freezeless Wall Faucet	173.78	38.82
22 11 19 00-0513	EA			12" Long, 1/2" Antisiphon Freezeless Wall Faucet	183.02	41.18
22 11 19 00-0514				Keyed, Recessed Valve Boxes <small>(22 11 19)</small>		
22 11 19 00-0515	EA			8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	357.64	36.87
22 11 19 00-0516	EA			8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	398.21	36.87
22 11 19 00-0517	EA			8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	459.05	36.87
22 11 19 00-0518	EA			12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	443.07	49.16
22 11 19 00-0519	EA			12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	503.91	49.16
22 11 19 00-0520	EA			12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	522.16	49.16
22 11 19 00-0521	EA			8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	422.54	36.87
22 11 19 00-0522	EA			8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	511.78	36.87
22 11 19 00-0523	EA			8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	590.88	36.87
22 11 19 00-0524	EA			12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	556.64	49.16
22 11 19 00-0525	EA			12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	635.74	49.16
22 11 19 00-0526	EA			12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	666.16	49.16
22 11 23				Domestic Water Pumps <small>(22 11)</small>		
22 11 23 13				Domestic Water Packaged Booster Pumps <small>(22 11 23)</small>		
				Note: Includes motor starter and controls.		
22 11 23 13-0001				Simplex Domestic Water Packaged Booster Pumps And Tank <small>(22 11 23 13)</small>		
22 11 23 13-0002	EA			1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	16,232.34	364.44



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	16,779.44	489.71
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	17,443.49	614.99
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	18,049.07	740.26
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	19,941.15	865.54
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	22,125.64	990.82
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	23,608.39	1,116.09
22 11 23 13-0009			Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	43,284.38	1,477.32
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	52,313.22	1,569.66
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	61,379.36	1,661.99
22 11 23 13-0013			Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	57,298.47	1,569.66
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	71,588.89	1,661.99
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	89,167.06	1,846.66
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	113,226.78	2,031.32
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	137,286.52	2,215.99
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	160,011.33	2,492.99
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	182,736.14	2,769.98
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	205,460.97	3,046.98
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	228,416.61	3,416.31
22 11 23 23			Domestic-Water In-Line Pumps (22 11 23)		
22 11 23 23-0001			Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
			Note: ODP motor.		
22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	1,149.30	205.00
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,180.34	205.00
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	1,235.77	208.98
22 11 23 23-0005	EA		1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	1,362.90	217.53
22 11 23 23-0006	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,456.45	225.67
22 11 23 23-0007	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,621.58	225.67
22 11 23 23-0008	EA		1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	3,925.39	248.46
22 11 23 23-0009	EA		1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	4,092.28	272.96
22 11 23 23-0010	EA		1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	4,956.97	300.33
22 11 23 23-0011	EA		1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	5,064.48	330.53
22 11 23 23-0012	EA		3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,538.38	363.01
22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	7,946.69	399.48
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	9,157.57	418.85
22 11 23 23-0015			Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
			Note: ODP motor.		
22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30).....	1,197.73	205.00
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	2,014.99	205.00
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	2,023.24	208.98
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	2,058.15	213.54
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	2,066.11	217.53
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,104.84	225.67
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	2,575.13	248.46
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	3,324.13	300.33
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,500.94	330.53
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	4,088.33	363.01
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,525.20	399.48
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,463.78	418.85
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	5,797.46	439.94
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	6,231.22	483.59
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	6,845.80	512.88
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,681.91	569.87
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	9,202.15	683.96
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	11,744.62	798.16
22 12			Facility Potable-Water Storage Tanks (22 10)		
22 12 19			Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001			Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	43,234.99	9,701.21
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	49,305.56	9,701.21
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	89,298.63	14,971.01
22 12 19 00-0005	EA		35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	115,248.97	19,402.40
22 12 19 00-0006			Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007	EA		5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	52,228.42	9,701.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	73,362.99	9,701.21
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	109,233.61	14,971.01
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	157,734.36	19,402.40
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,736.89	455.54
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,390.24	569.43
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	6,289.20	626.38
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	6,955.85	683.32
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	13,863.44	740.26
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	11,933.72	797.21
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	20,523.93	854.15
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	18,904.19	911.10
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	20,538.19	968.04
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	24,480.64	1,024.98
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,337.21	455.54
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,515.97	569.43
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	5,653.54	626.38
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	6,995.19	683.32
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	5,933.18	683.32
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	9,199.71	740.26
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	9,956.87	797.21
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,474.41	797.21
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	8,639.85	797.21
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	11,839.75	854.15
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	12,845.08	911.10
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	14,919.82	968.04
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	28,054.15	1,024.98
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	745.77	256.24
<i>For Saddle Assembly, Add</i>		
	833.21	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	873.62	298.95
<i>For Saddle Assembly, Add</i>		
	833.21	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,036.90	341.66
<i>For Saddle Assembly, Add</i>		
	953.74	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,264.01	384.37
<i>For Saddle Assembly, Add</i>		
	1,424.05	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,517.11	427.07
<i>For Two Tie Down Bands, Add</i>		
	478.24	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,954.52	578.05
<i>For Two Tie Down Bands, Add</i>		
	511.32	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,927.34	674.39
<i>For Three Tie Down Bands, Add</i>		
	873.34	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,229.95	770.72
<i>For Three Tie Down Bands, Add</i>		
	880.43	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,282.48	867.06
<i>For Four Tie Down Bands, Add</i>		
	1,192.81	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,189.54	963.40
<i>For Four Tie Down Bands, Add</i>		
	1,674.93	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,857.53	1,059.75
<i>For Four Tie Down Bands, Add</i>		
	2,204.32	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,262.19	1,156.09
<i>For Four Tie Down Bands, Add</i>		
	2,383.94	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	14,744.29	1,541.45
<i>For Four Tie Down Bands, Add</i>		
	2,695.90	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	19,087.91	1,541.45
<i>For Five Tie Down Bands, Add</i>		
	4,232.50	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	812.38	341.66
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	980.30	363.01

22 Plumbing
22 10 Plumbing Piping
22 12 Facility Potable-Water Storage Tanks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0019	EA		210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,077.31	384.37
22 12 23 26-0020	EA		300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,306.77	427.07
22 12 23 26-0021	EA		405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,489.20	512.49
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,759.07	597.91
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,455.07	770.72
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,179.92	963.40
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,278.19	1,156.09
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,598.60	1,348.77
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,249.59	1,541.45
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,179.45	1,734.14
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	12,674.75	1,926.82
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,966.81	2,119.50
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,095.49	2,312.18
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	18,184.00	2,504.86
22 12 23 26-0033	EA		10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	22,517.69	2,697.54
22 12 23 26-0034	EA		12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	27,096.46	3,082.91

22 13 Facility Sanitary Sewerage (22 10)

22 13 16 Sanitary Waste and Vent Piping (22 13)

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003	LF		2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	39.74	7.17
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	5.27	
22 13 16 00-0004	LF		3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	57.03	10.82
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	7.14	
22 13 16 00-0005	LF		4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	74.04	13.78
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.18	
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	87.37	16.74
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.41	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	103.04	18.23
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	10.46	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	164.89	25.98
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	14.71	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	245.56	25.98
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	16.66	

22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.

22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly.....	35.76	6.83
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.00	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly	37.81	7.28
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.44	
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly	48.63	10.59
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	7.91	
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly	58.06	13.78
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.45	
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly	75.77	16.41
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	11.14	
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly	86.31	17.91
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	12.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0017 LF 8" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	136.62 16.77	25.77
22 13 16 00-0018 LF 10" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	195.62 19.49	29.27
22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021 LF 2" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.61 7.46 0.54 3.25	7.17
22 13 16 00-0022 LF 3" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.74 10.70 0.81 4.88	10.82
22 13 16 00-0023 LF 4" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.81 13.91 1.04 6.21	13.78
22 13 16 00-0024 LF 5" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.75 19.63 1.25 7.51	16.74
22 13 16 00-0025 LF 6" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.21 23.90 1.37 8.19	18.23
22 13 16 00-0026 LF 8" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.49 37.17 1.95 11.69	25.98
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.22 61.89 2.19 13.16	29.27
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.53 89.91 2.92 17.54	39.03
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	383.03 131.40 3.51 21.05	46.82
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	114.59 22.96 2.45 14.69	32.69
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.68 46.59 3.08 18.47	41.11
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	259.37 62.10 4.10 24.58	54.66
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	404.87 104.56 5.31 31.84	70.79
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	803.37 233.21 6.85 41.12	91.45
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,099.34 325.73 8.43 50.60	112.49
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,686.39 507.84 11.77 70.62	157.01

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
22 13 16 00-0039	EA 15" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,134.12 982.22 16.39 98.33	218.63
22 13 16 00-0040	Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041	EA 2" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.27 16.90 2.45 14.69	32.69
22 13 16 00-0042	EA 3" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.61 36.42 3.08 18.47	41.11
22 13 16 00-0043	EA 4" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.68 50.66 4.10 24.58	54.66
22 13 16 00-0044	EA 5" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	340.46 87.60 4.51 27.05	60.18
22 13 16 00-0045	EA 6" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	411.10 106.74 5.31 31.84	70.79
22 13 16 00-0046	EA 8" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	678.08 189.36 6.85 41.12	91.45
22 13 16 00-0047	EA 10" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	992.44 288.32 8.43 50.60	112.49
22 13 16 00-0048	EA 12" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,646.53 493.89 11.77 70.62	157.01
22 13 16 00-0049	Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050	EA 2" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.44 13.50 2.44 14.66	32.57
22 13 16 00-0051	EA 3" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.08 26.97 2.75 16.51	36.67
22 13 16 00-0052	EA 4" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.91 40.49 3.66 21.97	48.86
22 13 16 00-0053	EA 5" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.89 54.38 4.03 24.16	53.74
22 13 16 00-0054	EA 6" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	283.72 65.51 4.83 28.97	64.36
22 13 16 00-0055	EA 8" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	590.65 162.55 6.31 37.86	84.20
22 13 16 00-0056	EA 10" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	871.77 251.50 7.66 45.96	102.19
22 13 16 00-0057	EA 12" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,149.77 339.12 9.04 54.26	120.61
22 13 16 00-0058	EA 15" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,941.88 929.86 14.26 85.55	190.23
22 13 16 00-0059	Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060	EA 2" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.77 10.78 2.45 14.69	32.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend	125.10	41.11
<i>For Extra Heavy Fittings, Add</i>	22.24	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.08	
<i>For Work In Restricted Working Space, Add</i>	18.47	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend	178.33	54.66
<i>For Extra Heavy Fittings, Add</i>	33.74	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.10	
<i>For Work In Restricted Working Space, Add</i>	24.58	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend	222.33	67.26
<i>For Extra Heavy Fittings, Add</i>	42.54	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.04	
<i>For Work In Restricted Working Space, Add</i>	30.23	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend	257.22	74.98
<i>For Extra Heavy Fittings, Add</i>	50.66	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.62	
<i>For Work In Restricted Working Space, Add</i>	33.74	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend	513.40	100.87
<i>For Extra Heavy Fittings, Add</i>	126.76	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.56	
<i>For Work In Restricted Working Space, Add</i>	45.37	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend	718.57	124.44
<i>For Extra Heavy Fittings, Add</i>	186.18	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.33	
<i>For Work In Restricted Working Space, Add</i>	55.99	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend	1,162.36	161.39
<i>For Extra Heavy Fittings, Add</i>	322.16	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.10	
<i>For Work In Restricted Working Space, Add</i>	72.57	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend	2,231.25	190.23
<i>For Extra Heavy Fittings, Add</i>	681.14	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.26	
<i>For Work In Restricted Working Space, Add</i>	85.55	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye	139.13	73.00
<i>For Extra Heavy Fittings, Add</i>	10.37	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.48	
<i>For Work In Restricted Working Space, Add</i>	32.85	
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye	175.36	79.95
<i>For Extra Heavy Fittings, Add</i>	19.42	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.99	
<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye	230.87	104.78
<i>For Extra Heavy Fittings, Add</i>	25.84	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.85	
<i>For Work In Restricted Working Space, Add</i>	47.11	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye	296.60	115.74
<i>For Extra Heavy Fittings, Add</i>	43.06	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.68	
<i>For Work In Restricted Working Space, Add</i>	52.07	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye	372.41	137.19
<i>For Extra Heavy Fittings, Add</i>	58.34	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.29	
<i>For Work In Restricted Working Space, Add</i>	61.72	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye	684.93	184.20
<i>For Extra Heavy Fittings, Add</i>	143.06	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.81	
<i>For Work In Restricted Working Space, Add</i>	82.85	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	962.04	208.98
<i>For Extra Heavy Fittings, Add</i>	227.07	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.66	
<i>For Work In Restricted Working Space, Add</i>	93.98	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,425.10	254.36
<i>For Extra Heavy Fittings, Add</i>	365.31	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.07	
<i>For Work In Restricted Working Space, Add</i>	114.41	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,215.10	285.40
<i>For Extra Heavy Fittings, Add</i>	625.53	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	21.39	
<i>For Work In Restricted Working Space, Add</i>	128.36	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	220.97	76.30
<i>For Extra Heavy Fittings, Add</i>	37.29	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.72	
<i>For Work In Restricted Working Space, Add</i>	34.33	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	268.91	94.30
<i>For Extra Heavy Fittings, Add</i>	44.61	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.07	
<i>For Work In Restricted Working Space, Add</i>	42.43	

22 Plumbing
22 10 Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye	300.22	96.69
			<i>For Extra Heavy Fittings, Add</i>	54.31	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.25	
			<i>For Work In Restricted Working Space, Add</i>	43.51	
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye	442.84	122.92
			<i>For Extra Heavy Fittings, Add</i>	90.52	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.21	
			<i>For Work In Restricted Working Space, Add</i>	55.26	
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye	454.35	125.18
			<i>For Extra Heavy Fittings, Add</i>	93.32	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.39	
			<i>For Work In Restricted Working Space, Add</i>	56.32	
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye	475.48	133.55
			<i>For Extra Heavy Fittings, Add</i>	96.34	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.01	
			<i>For Work In Restricted Working Space, Add</i>	60.07	
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye	701.75	148.13
			<i>For Extra Heavy Fittings, Add</i>	167.89	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.10	
			<i>For Work In Restricted Working Space, Add</i>	66.62	
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye	733.70	150.98
			<i>For Extra Heavy Fittings, Add</i>	177.59	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.32	
			<i>For Work In Restricted Working Space, Add</i>	67.89	
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye	751.23	158.10
			<i>For Extra Heavy Fittings, Add</i>	179.96	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.85	
			<i>For Work In Restricted Working Space, Add</i>	71.12	
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye	888.12	175.87
			<i>For Extra Heavy Fittings, Add</i>	218.54	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.19	
			<i>For Work In Restricted Working Space, Add</i>	79.12	
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,097.46	164.79
			<i>For Extra Heavy Fittings, Add</i>	297.63	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.35	
			<i>For Work In Restricted Working Space, Add</i>	74.12	
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,141.62	172.02
			<i>For Extra Heavy Fittings, Add</i>	309.27	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.90	
			<i>For Work In Restricted Working Space, Add</i>	77.39	
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,248.84	190.23
			<i>For Extra Heavy Fittings, Add</i>	337.29	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.26	
			<i>For Work In Restricted Working Space, Add</i>	85.55	
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,653.46	201.74
			<i>For Extra Heavy Fittings, Add</i>	472.85	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.12	
			<i>For Work In Restricted Working Space, Add</i>	90.74	
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,702.11	201.74
			<i>For Extra Heavy Fittings, Add</i>	489.88	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.12	
			<i>For Work In Restricted Working Space, Add</i>	90.74	
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,771.16	218.63
			<i>For Extra Heavy Fittings, Add</i>	505.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.39	
			<i>For Work In Restricted Working Space, Add</i>	98.33	
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,081.08	229.48
			<i>For Extra Heavy Fittings, Add</i>	607.99	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.20	
			<i>For Work In Restricted Working Space, Add</i>	103.19	
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye	2,531.64	236.27
			<i>For Extra Heavy Fittings, Add</i>	762.08	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.71	
			<i>For Work In Restricted Working Space, Add</i>	106.28	
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye	4,193.70	222.80
			<i>For Extra Heavy Fittings, Add</i>	1,350.89	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.70	
			<i>For Work In Restricted Working Space, Add</i>	100.21	
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye	4,376.40	241.10
			<i>For Extra Heavy Fittings, Add</i>	1,405.20	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	18.08	
			<i>For Work In Restricted Working Space, Add</i>	108.47	
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye	4,465.84	251.52
			<i>For Extra Heavy Fittings, Add</i>	1,431.06	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	18.85	
			<i>For Work In Restricted Working Space, Add</i>	113.13	
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye	4,569.71	260.07
			<i>For Extra Heavy Fittings, Add</i>	1,462.96	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.49	
			<i>For Work In Restricted Working Space, Add</i>	116.95	
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye	4,684.83	275.20
			<i>For Extra Heavy Fittings, Add</i>	1,495.29	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.63	
			<i>For Work In Restricted Working Space, Add</i>	123.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	151.81	73.00
For Extra Heavy Fittings, Add	14.81	
For Above Ground Cast Iron Pipe Installation, Add	5.48	
For Work In Restricted Working Space, Add	32.85	
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	183.18	79.95
For Extra Heavy Fittings, Add	22.16	
For Above Ground Cast Iron Pipe Installation, Add	5.99	
For Work In Restricted Working Space, Add	35.96	
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	244.48	104.78
For Extra Heavy Fittings, Add	30.60	
For Above Ground Cast Iron Pipe Installation, Add	7.85	
For Work In Restricted Working Space, Add	47.11	
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	340.43	121.43
For Extra Heavy Fittings, Add	55.45	
For Above Ground Cast Iron Pipe Installation, Add	9.10	
For Work In Restricted Working Space, Add	54.60	
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	426.37	150.60
For Extra Heavy Fittings, Add	70.22	
For Above Ground Cast Iron Pipe Installation, Add	11.29	
For Work In Restricted Working Space, Add	67.73	
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	785.71	198.34
For Extra Heavy Fittings, Add	170.93	
For Above Ground Cast Iron Pipe Installation, Add	14.87	
For Work In Restricted Working Space, Add	89.20	
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,134.92	260.07
For Extra Heavy Fittings, Add	260.78	
For Above Ground Cast Iron Pipe Installation, Add	19.49	
For Work In Restricted Working Space, Add	116.95	
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,522.27	334.30
For Extra Heavy Fittings, Add	357.37	
For Above Ground Cast Iron Pipe Installation, Add	25.06	
For Work In Restricted Working Space, Add	150.37	
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	161.92	76.30
For Extra Heavy Fittings, Add	16.62	
For Above Ground Cast Iron Pipe Installation, Add	5.72	
For Work In Restricted Working Space, Add	34.33	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	228.64	94.30
For Extra Heavy Fittings, Add	30.52	
For Above Ground Cast Iron Pipe Installation, Add	7.07	
For Work In Restricted Working Space, Add	42.43	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	247.08	96.69
For Extra Heavy Fittings, Add	35.71	
For Above Ground Cast Iron Pipe Installation, Add	7.25	
For Work In Restricted Working Space, Add	43.51	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	366.63	122.92
For Extra Heavy Fittings, Add	63.85	
For Above Ground Cast Iron Pipe Installation, Add	9.21	
For Work In Restricted Working Space, Add	55.26	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	382.00	125.18
For Extra Heavy Fittings, Add	68.00	
For Above Ground Cast Iron Pipe Installation, Add	9.39	
For Work In Restricted Working Space, Add	56.32	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	404.89	133.55
For Extra Heavy Fittings, Add	71.63	
For Above Ground Cast Iron Pipe Installation, Add	10.01	
For Work In Restricted Working Space, Add	60.07	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	560.20	148.13
For Extra Heavy Fittings, Add	118.35	
For Above Ground Cast Iron Pipe Installation, Add	11.10	
For Work In Restricted Working Space, Add	66.62	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	575.20	158.10
For Extra Heavy Fittings, Add	118.35	
For Above Ground Cast Iron Pipe Installation, Add	11.85	
For Work In Restricted Working Space, Add	71.12	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	727.92	175.87
For Extra Heavy Fittings, Add	162.47	
For Above Ground Cast Iron Pipe Installation, Add	13.19	
For Work In Restricted Working Space, Add	79.12	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye.....	247.91	87.35
For Extra Heavy Fittings, Add	40.95	
For Above Ground Cast Iron Pipe Installation, Add	6.55	
For Work In Restricted Working Space, Add	39.27	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye.....	361.49	110.13
For Extra Heavy Fittings, Add	68.75	
For Above Ground Cast Iron Pipe Installation, Add	8.25	
For Work In Restricted Working Space, Add	49.52	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye	490.91	139.28
			<i>For Extra Heavy Fittings, Add</i>	98.71	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.44	
			<i>For Work In Restricted Working Space, Add</i>	62.67	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye	941.65	210.78
			<i>For Extra Heavy Fittings, Add</i>	218.97	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.80	
			<i>For Work In Restricted Working Space, Add</i>	94.81	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye	1,896.07	248.99
			<i>For Extra Heavy Fittings, Add</i>	532.99	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	18.66	
			<i>For Work In Restricted Working Space, Add</i>	111.98	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye	2,515.63	278.60
			<i>For Extra Heavy Fittings, Add</i>	734.28	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.88	
			<i>For Work In Restricted Working Space, Add</i>	125.30	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye	1,736.28	334.30
			<i>For Extra Heavy Fittings, Add</i>	432.27	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	150.37	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye	4,929.62	350.85
			<i>For Extra Heavy Fittings, Add</i>	1,541.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	26.32	
			<i>For Work In Restricted Working Space, Add</i>	157.89	
22 13 16 00-0131			Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	223.93	103.29
			<i>For Extra Heavy Fittings, Add</i>	24.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.75	
			<i>For Work In Restricted Working Space, Add</i>	46.47	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	260.28	118.67
			<i>For Extra Heavy Fittings, Add</i>	28.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.90	
			<i>For Work In Restricted Working Space, Add</i>	53.39	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	282.08	124.48
			<i>For Extra Heavy Fittings, Add</i>	33.38	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.34	
			<i>For Work In Restricted Working Space, Add</i>	56.01	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	361.54	146.21
			<i>For Extra Heavy Fittings, Add</i>	49.83	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.96	
			<i>For Work In Restricted Working Space, Add</i>	65.75	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	383.44	151.78
			<i>For Extra Heavy Fittings, Add</i>	54.57	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.38	
			<i>For Work In Restricted Working Space, Add</i>	68.26	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	441.74	165.52
			<i>For Extra Heavy Fittings, Add</i>	67.76	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.41	
			<i>For Work In Restricted Working Space, Add</i>	74.44	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	717.45	191.88
			<i>For Extra Heavy Fittings, Add</i>	150.45	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.38	
			<i>For Work In Restricted Working Space, Add</i>	86.27	
22 13 16 00-0139	EA		8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	780.41	227.07
			<i>For Extra Heavy Fittings, Add</i>	153.97	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.03	
			<i>For Work In Restricted Working Space, Add</i>	102.15	
22 13 16 00-0140	EA		10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	764.24	205.25
			<i>For Extra Heavy Fittings, Add</i>	159.76	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.39	
			<i>For Work In Restricted Working Space, Add</i>	92.33	
22 13 16 00-0141	EA		10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	890.56	241.10
			<i>For Extra Heavy Fittings, Add</i>	185.15	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	18.08	
			<i>For Work In Restricted Working Space, Add</i>	108.47	
22 13 16 00-0142	EA		10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,099.41	262.81
			<i>For Extra Heavy Fittings, Add</i>	246.88	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.70	
			<i>For Work In Restricted Working Space, Add</i>	118.21	
22 13 16 00-0143	EA		12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,122.94	268.84
			<i>For Extra Heavy Fittings, Add</i>	251.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.16	
			<i>For Work In Restricted Working Space, Add</i>	120.93	
22 13 16 00-0144	EA		12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,438.40	292.52
			<i>For Extra Heavy Fittings, Add</i>	349.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	21.93	
			<i>For Work In Restricted Working Space, Add</i>	131.57	

22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.97 26.27 6.55 39.27	87.35
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	277.43 35.78 8.76 52.56	116.85
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.85 50.34 10.95 65.70	146.11
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	799.12 156.08 17.66 105.95	235.56
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.69 41.53 7.85 47.11	104.78
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	327.44 52.32 8.90 53.39	118.67
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	367.66 59.38 9.90 59.40	132.11
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	739.54 166.62 13.17 79.04	175.70
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees <small>(22 13 16 00-0030)</small>		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.11 20.48 5.48 32.88	73.11
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.31 25.00 5.99 35.96	79.95
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.47 56.90 7.35 44.07	97.95
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	449.99 101.29 8.03 48.17	107.05
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	539.83 121.56 9.63 57.76	128.40
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,166.76 320.05 12.62 75.70	168.30
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,756.07 506.91 15.39 92.33	205.25
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,623.91 791.83 18.08 108.47	241.10
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0030)</small>		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.51 39.22 5.72 34.33	76.30
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.23 46.98 6.70 40.20	89.40

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0167	EA		4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	281.16	89.40
			<i>For Extra Heavy Fittings, Add</i>	51.51	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.70	
			<i>For Work In Restricted Working Space, Add</i>	40.20	
22 13 16 00-0168	EA		6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	425.59	122.92
			<i>For Extra Heavy Fittings, Add</i>	84.48	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.21	
			<i>For Work In Restricted Working Space, Add</i>	55.26	
22 13 16 00-0169	EA		6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee	443.27	125.18
			<i>For Extra Heavy Fittings, Add</i>	89.44	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.39	
			<i>For Work In Restricted Working Space, Add</i>	56.32	
22 13 16 00-0170	EA		6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	481.02	133.55
			<i>For Extra Heavy Fittings, Add</i>	98.28	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.01	
			<i>For Work In Restricted Working Space, Add</i>	60.07	
22 13 16 00-0171	EA		8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee	824.51	158.10
			<i>For Extra Heavy Fittings, Add</i>	205.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.85	
			<i>For Work In Restricted Working Space, Add</i>	71.12	
22 13 16 00-0172	EA		8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee	1,036.52	175.87
			<i>For Extra Heavy Fittings, Add</i>	270.48	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.19	
			<i>For Work In Restricted Working Space, Add</i>	79.12	
22 13 16 00-0173			Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174	EA		2" Bell And Spigot Cast Iron Vent Tee	143.69	73.00
			<i>For Extra Heavy Fittings, Add</i>	11.96	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.48	
			<i>For Work In Restricted Working Space, Add</i>	32.85	
22 13 16 00-0175	EA		3" Bell And Spigot Cast Iron Vent Tee	179.36	79.95
			<i>For Extra Heavy Fittings, Add</i>	20.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0176	EA		4" Bell And Spigot Cast Iron Vent Tee	237.64	104.78
			<i>For Extra Heavy Fittings, Add</i>	28.21	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	47.11	
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee	302.25	121.43
			<i>For Extra Heavy Fittings, Add</i>	42.09	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.10	
			<i>For Work In Restricted Working Space, Add</i>	54.60	
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee	380.68	150.60
			<i>For Extra Heavy Fittings, Add</i>	54.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.29	
			<i>For Work In Restricted Working Space, Add</i>	67.73	
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee	657.88	198.34
			<i>For Extra Heavy Fittings, Add</i>	126.19	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.87	
			<i>For Work In Restricted Working Space, Add</i>	89.20	
22 13 16 00-0180			Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee	147.69	73.00
			<i>For Extra Heavy Fittings, Add</i>	13.36	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.48	
			<i>For Work In Restricted Working Space, Add</i>	32.85	
22 13 16 00-0182	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Tee	163.05	79.95
			<i>For Extra Heavy Fittings, Add</i>	15.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0183	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Tee	210.24	104.78
			<i>For Extra Heavy Fittings, Add</i>	18.62	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	47.11	
22 13 16 00-0184			Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Cross	150.21	73.00
			<i>For Extra Heavy Fittings, Add</i>	14.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.48	
			<i>For Work In Restricted Working Space, Add</i>	32.85	
22 13 16 00-0186	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Cross	167.85	79.95
			<i>For Extra Heavy Fittings, Add</i>	16.79	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0187	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Cross	222.31	104.78
			<i>For Extra Heavy Fittings, Add</i>	22.84	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	47.11	
22 13 16 00-0188			Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer.....	83.17	41.11
For Extra Heavy Fittings, Add	7.56	
For Above Ground Cast Iron Pipe Installation, Add	3.08	
For Work In Restricted Working Space, Add	18.47	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer.....	103.95	54.21
For Extra Heavy Fittings, Add	7.91	
For Above Ground Cast Iron Pipe Installation, Add	4.07	
For Work In Restricted Working Space, Add	24.41	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer.....	111.30	54.66
For Extra Heavy Fittings, Add	10.28	
For Above Ground Cast Iron Pipe Installation, Add	4.10	
For Work In Restricted Working Space, Add	24.58	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer.....	140.19	65.00
For Extra Heavy Fittings, Add	14.93	
For Above Ground Cast Iron Pipe Installation, Add	4.88	
For Work In Restricted Working Space, Add	29.26	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer.....	146.77	65.86
For Extra Heavy Fittings, Add	16.79	
For Above Ground Cast Iron Pipe Installation, Add	4.94	
For Work In Restricted Working Space, Add	29.64	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer.....	151.52	67.26
For Extra Heavy Fittings, Add	17.76	
For Above Ground Cast Iron Pipe Installation, Add	5.04	
For Work In Restricted Working Space, Add	30.23	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer.....	197.57	69.29
For Extra Heavy Fittings, Add	32.78	
For Above Ground Cast Iron Pipe Installation, Add	5.20	
For Work In Restricted Working Space, Add	31.17	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer.....	222.69	85.42
For Extra Heavy Fittings, Add	33.12	
For Above Ground Cast Iron Pipe Installation, Add	6.40	
For Work In Restricted Working Space, Add	38.42	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer.....	228.55	87.60
For Extra Heavy Fittings, Add	34.01	
For Above Ground Cast Iron Pipe Installation, Add	6.57	
For Work In Restricted Working Space, Add	39.41	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer.....	236.01	91.45
For Extra Heavy Fittings, Add	34.64	
For Above Ground Cast Iron Pipe Installation, Add	6.85	
For Work In Restricted Working Space, Add	41.12	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer.....	295.51	102.63
For Extra Heavy Fittings, Add	49.57	
For Above Ground Cast Iron Pipe Installation, Add	7.69	
For Work In Restricted Working Space, Add	46.16	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer.....	311.59	107.78
For Extra Heavy Fittings, Add	52.48	
For Above Ground Cast Iron Pipe Installation, Add	8.08	
For Work In Restricted Working Space, Add	48.50	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer.....	332.17	112.49
For Extra Heavy Fittings, Add	57.22	
For Above Ground Cast Iron Pipe Installation, Add	8.43	
For Work In Restricted Working Space, Add	50.60	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer.....	413.96	121.92
For Extra Heavy Fittings, Add	80.93	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.82	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer.....	461.22	142.64
For Extra Heavy Fittings, Add	86.55	
For Above Ground Cast Iron Pipe Installation, Add	10.70	
For Work In Restricted Working Space, Add	64.18	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer.....	498.27	162.49
For Extra Heavy Fittings, Add	89.12	
For Above Ground Cast Iron Pipe Installation, Add	12.18	
For Work In Restricted Working Space, Add	73.10	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer.....	545.25	187.16
For Extra Heavy Fittings, Add	92.63	
For Above Ground Cast Iron Pipe Installation, Add	14.03	
For Work In Restricted Working Space, Add	84.18	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer.....	716.50	187.16
For Extra Heavy Fittings, Add	152.57	
For Above Ground Cast Iron Pipe Installation, Add	14.03	
For Work In Restricted Working Space, Add	84.18	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer.....	762.19	201.74
For Extra Heavy Fittings, Add	160.91	
For Above Ground Cast Iron Pipe Installation, Add	15.12	
For Work In Restricted Working Space, Add	90.74	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer.....	793.48	212.71
For Extra Heavy Fittings, Add	166.08	
For Above Ground Cast Iron Pipe Installation, Add	15.95	
For Work In Restricted Working Space, Add	95.69	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer.....	835.89	227.07
For Extra Heavy Fittings, Add	173.39	
For Above Ground Cast Iron Pipe Installation, Add	17.03	
For Work In Restricted Working Space, Add	102.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0210			Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap.....	85.93	32.69
			<i>For Extra Heavy Fittings, Add</i>	12.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	14.69	
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap.....	115.32	41.11
			<i>For Extra Heavy Fittings, Add</i>	18.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap.....	157.24	54.66
			<i>For Extra Heavy Fittings, Add</i>	26.36	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.10	
			<i>For Work In Restricted Working Space, Add</i>	24.58	
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap.....	251.64	60.18
			<i>For Extra Heavy Fittings, Add</i>	56.51	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.51	
			<i>For Work In Restricted Working Space, Add</i>	27.05	
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap.....	338.64	70.79
			<i>For Extra Heavy Fittings, Add</i>	81.38	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.31	
			<i>For Work In Restricted Working Space, Add</i>	31.84	
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap.....	757.75	91.45
			<i>For Extra Heavy Fittings, Add</i>	217.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.85	
			<i>For Work In Restricted Working Space, Add</i>	41.12	
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap.....	839.26	112.49
			<i>For Extra Heavy Fittings, Add</i>	234.70	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.43	
			<i>For Work In Restricted Working Space, Add</i>	50.60	
22 13 16 00-0218			Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap.....	99.97	32.69
			<i>For Extra Heavy Fittings, Add</i>	17.85	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	14.69	
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap.....	142.90	41.11
			<i>For Extra Heavy Fittings, Add</i>	28.47	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	18.47	
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap.....	208.53	54.66
			<i>For Extra Heavy Fittings, Add</i>	44.31	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.10	
			<i>For Work In Restricted Working Space, Add</i>	24.58	
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap.....	343.33	67.26
			<i>For Extra Heavy Fittings, Add</i>	84.89	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.04	
			<i>For Work In Restricted Working Space, Add</i>	30.23	
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap.....	364.08	74.98
			<i>For Extra Heavy Fittings, Add</i>	88.06	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.62	
			<i>For Work In Restricted Working Space, Add</i>	33.74	
22 13 16 00-0224			Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		
22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent.....	230.24	78.92
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	307.26	103.75
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	47.11	
22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	415.79	116.81
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.83	
			<i>For Work In Restricted Working Space, Add</i>	52.98	
22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	844.09	132.37
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.01	
			<i>For Work In Restricted Working Space, Add</i>	60.07	
22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	2,793.21	156.35
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.85	
			<i>For Work In Restricted Working Space, Add</i>	71.12	
22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent.....	3,023.97	174.44
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.19	
			<i>For Work In Restricted Working Space, Add</i>	79.12	
22 13 16 00-0231			Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....	294.00	108.99
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.25	
			<i>For Work In Restricted Working Space, Add</i>	49.52	
22 13 16 00-0233	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	402.30	137.57
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.44	
			<i>For Work In Restricted Working Space, Add</i>	62.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	939.55 12.41 74.44	163.58
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,089.06 15.00 90.02	198.02
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,006.72 14.38 86.27	189.57
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,298.00 17.03 102.15	225.09
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,389.69 19.70 118.21	259.74
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,080.70 22.75 136.48	300.31
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,856.92 26.32 157.95	347.35
 22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings <small>(22 13 16 00-0030)</small>		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.74 2.44 14.66	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.00 2.74 16.47	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.13 3.68 22.06	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.11 4.27 25.63	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	432.49 5.16 30.96	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	822.95 6.52 39.12	
 22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe <small>(22 13 16 00-0019)</small>		
<small>Note: For use when connecting pipe to an existing in-place system.</small>		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.60 0.68 4.08	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.84 0.74 4.45	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.55 0.93 5.57	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.25 1.11 6.68	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.68 1.48 8.90	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.62 1.73 10.39	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.80 2.04 12.24	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.99 2.35 14.10	
 22 13 16 00-0257 Joint Material <small>(22 13 16 00-0019)</small>		
<small>Note: Labor costs are included in the installation costs for fittings.</small>		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material	7.77	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	15.65	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
22 13 16 00-0268	No Hub Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service Weight. Excludes hangers.				
22 13 16 00-0269	No Hub Cast Iron Pipe <small>(22 13 16 00-0268)</small> Note: Excludes couplings.				
22 13 16 00-0270	LF 1-1/2" No Hub Cast Iron Pipe.....	19.84		6.83	
	<i>For Below Ground Installation, Add</i>	0.51			
	<i>For Work In Restricted Working Space, Add</i>	3.08			
22 13 16 00-0271	LF 2" No Hub Cast Iron Pipe.....	21.06		7.28	
	<i>For Below Ground Installation, Add</i>	0.55			
	<i>For Work In Restricted Working Space, Add</i>	3.30			
22 13 16 00-0272	LF 3" No Hub Cast Iron Pipe.....	29.84		10.59	
	<i>For Below Ground Installation, Add</i>	0.80			
	<i>For Work In Restricted Working Space, Add</i>	4.78			
22 13 16 00-0273	LF 4" No Hub Cast Iron Pipe.....	38.73		13.78	
	<i>For Below Ground Installation, Add</i>	1.04			
	<i>For Work In Restricted Working Space, Add</i>	6.21			
22 13 16 00-0274	LF 5" No Hub Cast Iron Pipe.....	49.73		16.41	
	<i>For Below Ground Installation, Add</i>	1.23			
	<i>For Work In Restricted Working Space, Add</i>	7.39			
22 13 16 00-0275	LF 6" No Hub Cast Iron Pipe.....	57.88		17.91	
	<i>For Below Ground Installation, Add</i>	1.34			
	<i>For Work In Restricted Working Space, Add</i>	8.05			
22 13 16 00-0276	LF 8" No Hub Cast Iron Pipe.....	88.30		25.77	
	<i>For Below Ground Installation, Add</i>	1.93			
	<i>For Work In Restricted Working Space, Add</i>	11.57			
22 13 16 00-0277	LF 10" No Hub Cast Iron Pipe.....	126.33		29.27	
	<i>For Below Ground Installation, Add</i>	2.19			
	<i>For Work In Restricted Working Space, Add</i>	13.16			
22 13 16 00-0278	No Hub Cast Iron Fittings <small>(22 13 16 00-0268)</small>				
22 13 16 00-0279	No Hub Cast Iron Long Sweeps <small>(22 13 16 00-0278)</small>				
22 13 16 00-0280	EA 1-1/2" No Hub Cast Iron Long Sweep.....	72.59		30.98	
	<i>For Below Ground Installation, Add</i>	2.32			
	<i>For Work In Restricted Working Space, Add</i>	13.94			
22 13 16 00-0281	EA 2" No Hub Cast Iron Long Sweep.....	75.22		32.34	
	<i>For Below Ground Installation, Add</i>	2.42			
	<i>For Work In Restricted Working Space, Add</i>	14.54			
22 13 16 00-0282	EA 3" No Hub Cast Iron Long Sweep.....	89.08		37.01	
	<i>For Below Ground Installation, Add</i>	2.78			
	<i>For Work In Restricted Working Space, Add</i>	16.67			
22 13 16 00-0283	EA 4" No Hub Cast Iron Long Sweep.....	123.46		48.97	
	<i>For Below Ground Installation, Add</i>	3.67			
	<i>For Work In Restricted Working Space, Add</i>	22.04			
22 13 16 00-0284	EA 5" No Hub Cast Iron Long Sweep.....	173.19		54.17	
	<i>For Below Ground Installation, Add</i>	4.06			
	<i>For Work In Restricted Working Space, Add</i>	24.35			
22 13 16 00-0285	EA 6" No Hub Cast Iron Long Sweep.....	205.35		64.58	
	<i>For Below Ground Installation, Add</i>	4.84			
	<i>For Work In Restricted Working Space, Add</i>	29.07			
22 13 16 00-0286	EA 8" No Hub Cast Iron Long Sweep.....	421.85		83.54	
	<i>For Below Ground Installation, Add</i>	6.27			
	<i>For Work In Restricted Working Space, Add</i>	37.59			
22 13 16 00-0287	No Hub Cast Iron Reducing Long Sweeps <small>(22 13 16 00-0278)</small>				
22 13 16 00-0288	EA 3" x 2" No Hub Cast Iron Reducing Long Sweep.....	116.71		37.01	
	<i>For Below Ground Installation, Add</i>	2.78			
	<i>For Work In Restricted Working Space, Add</i>	16.67			
22 13 16 00-0289	EA 4" x 3" No Hub Cast Iron Reducing Long Sweep.....	176.10		48.97	
	<i>For Below Ground Installation, Add</i>	3.67			
	<i>For Work In Restricted Working Space, Add</i>	22.04			
22 13 16 00-0290	No Hub Cast Iron Short Sweeps <small>(22 13 16 00-0278)</small>				
22 13 16 00-0291	EA 2" No Hub Cast Iron Short Sweep.....	69.66		32.34	
	<i>For Below Ground Installation, Add</i>	2.42			
	<i>For Work In Restricted Working Space, Add</i>	14.54			
22 13 16 00-0292	EA 3" No Hub Cast Iron Short Sweep.....	84.68		37.01	
	<i>For Below Ground Installation, Add</i>	2.78			
	<i>For Work In Restricted Working Space, Add</i>	16.67			
22 13 16 00-0293	EA 4" No Hub Cast Iron Short Sweep.....	121.15		48.97	
	<i>For Below Ground Installation, Add</i>	3.67			
	<i>For Work In Restricted Working Space, Add</i>	22.04			
22 13 16 00-0294	EA 5" No Hub Cast Iron Short Sweep.....	174.06		54.17	
	<i>For Below Ground Installation, Add</i>	4.06			
	<i>For Work In Restricted Working Space, Add</i>	24.35			
22 13 16 00-0295	EA 6" No Hub Cast Iron Short Sweep.....	191.87		64.58	
	<i>For Below Ground Installation, Add</i>	4.84			
	<i>For Work In Restricted Working Space, Add</i>	29.07			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	381.10 6.27 37.59	83.54
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	625.36 8.77 52.63	116.98
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.93 2.32 13.95	30.98
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.84 2.42 14.54	32.34
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.48 2.78 16.67	37.01
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.45 3.67 22.04	48.97
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.04 4.06 24.35	54.17
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.98 4.84 29.07	64.58
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	349.37 6.27 37.59	83.54
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.40 2.32 13.95	30.98
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.66 2.42 14.54	32.34
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.37 2.78 16.67	37.01
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.22 3.67 22.04	48.97
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.94 5.42 32.54	72.31
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	292.65 7.12 42.71	94.99
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	458.70 8.76 52.56	116.85
22 13 16 00-0314 No Hub Cast Iron Wyes <small>(22 13 16 00-0278)</small>		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.93 3.65 21.90	48.74
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.25 4.95 29.71	66.06
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.20 5.42 32.54	72.31
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.85 7.12 42.71	94.99
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.50 7.90 47.42	105.44
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.77 9.39 56.32	125.18
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	560.86 12.53 75.18	167.20
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	950.23 13.92 83.54	185.73
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes <small>(22 13 16 00-0278)</small>		

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0324	EA		3" x 1-1/2" No Hub Cast Iron Reducing Wye	119.53	63.09
			<i>For Below Ground Installation, Add</i>	4.73	
			<i>For Work In Restricted Working Space, Add</i>	28.35	
22 13 16 00-0325	EA		3" x 2" No Hub Cast Iron Reducing Wye.....	133.49	72.31
			<i>For Below Ground Installation, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	32.54	
22 13 16 00-0326	EA		4" x 2" No Hub Cast Iron Reducing Wye.....	151.90	79.95
			<i>For Below Ground Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0327	EA		4" x 3" No Hub Cast Iron Reducing Wye.....	176.11	88.83
			<i>For Below Ground Installation, Add</i>	6.66	
			<i>For Work In Restricted Working Space, Add</i>	39.96	
22 13 16 00-0328	EA		6" x 2" No Hub Cast Iron Reducing Wye.....	230.94	106.51
			<i>For Below Ground Installation, Add</i>	7.99	
			<i>For Work In Restricted Working Space, Add</i>	47.93	
22 13 16 00-0329	EA		6" x 3" No Hub Cast Iron Reducing Wye.....	247.13	111.34
			<i>For Below Ground Installation, Add</i>	8.34	
			<i>For Work In Restricted Working Space, Add</i>	50.06	
22 13 16 00-0330	EA		6" x 4" No Hub Cast Iron Reducing Wye.....	282.94	130.12
			<i>For Below Ground Installation, Add</i>	9.75	
			<i>For Work In Restricted Working Space, Add</i>	58.51	
22 13 16 00-0331	EA		8" x 4" No Hub Cast Iron Reducing Wye.....	374.74	131.46
			<i>For Below Ground Installation, Add</i>	9.86	
			<i>For Work In Restricted Working Space, Add</i>	59.13	
22 13 16 00-0332	EA		8" x 6" No Hub Cast Iron Reducing Wye.....	435.95	144.50
			<i>For Below Ground Installation, Add</i>	10.83	
			<i>For Work In Restricted Working Space, Add</i>	64.97	
22 13 16 00-0333	EA		10" x 4" No Hub Cast Iron Reducing Wye.....	695.40	153.93
			<i>For Below Ground Installation, Add</i>	11.54	
			<i>For Work In Restricted Working Space, Add</i>	69.25	
22 13 16 00-0334	EA		10" x 6" No Hub Cast Iron Reducing Wye.....	733.15	164.79
			<i>For Below Ground Installation, Add</i>	12.35	
			<i>For Work In Restricted Working Space, Add</i>	74.12	
22 13 16 00-0335	EA		10" x 8" No Hub Cast Iron Reducing Wye.....	847.51	175.97
			<i>For Below Ground Installation, Add</i>	13.19	
			<i>For Work In Restricted Working Space, Add</i>	79.14	
22 13 16 00-0336			No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337	EA		1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	108.21	56.71
			<i>For Below Ground Installation, Add</i>	4.25	
			<i>For Work In Restricted Working Space, Add</i>	25.50	
22 13 16 00-0338	EA		2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	123.19	66.06
			<i>For Below Ground Installation, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	29.71	
22 13 16 00-0339	EA		3" No Hub Cast Iron Combination Wye And 1/8 Bend.....	147.27	72.31
			<i>For Below Ground Installation, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	32.54	
22 13 16 00-0340	EA		4" No Hub Cast Iron Combination Wye And 1/8 Bend.....	213.83	94.99
			<i>For Below Ground Installation, Add</i>	7.12	
			<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0341	EA		6" No Hub Cast Iron Combination Wye And 1/8 Bend.....	398.94	146.11
			<i>For Below Ground Installation, Add</i>	10.95	
			<i>For Work In Restricted Working Space, Add</i>	65.70	
22 13 16 00-0342	EA		8" No Hub Cast Iron Combination Wye And 1/8 Bend.....	732.51	187.46
			<i>For Below Ground Installation, Add</i>	14.05	
			<i>For Work In Restricted Working Space, Add</i>	84.32	
22 13 16 00-0343	EA		10" No Hub Cast Iron Combination Wye And 1/8 Bend.....	858.13	226.63
			<i>For Below Ground Installation, Add</i>	16.99	
			<i>For Work In Restricted Working Space, Add</i>	101.93	
22 13 16 00-0344			No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345	EA		2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	124.34	66.06
			<i>For Below Ground Installation, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	29.71	
22 13 16 00-0346	EA		3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	137.03	72.31
			<i>For Below Ground Installation, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	32.54	
22 13 16 00-0347	EA		4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	158.97	79.95
			<i>For Below Ground Installation, Add</i>	5.99	
			<i>For Work In Restricted Working Space, Add</i>	35.96	
22 13 16 00-0348	EA		4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	182.96	88.83
			<i>For Below Ground Installation, Add</i>	6.66	
			<i>For Work In Restricted Working Space, Add</i>	39.96	
22 13 16 00-0349	EA		6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	251.49	106.51
			<i>For Below Ground Installation, Add</i>	7.99	
			<i>For Work In Restricted Working Space, Add</i>	47.93	
22 13 16 00-0350	EA		6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	283.04	111.34
			<i>For Below Ground Installation, Add</i>	8.34	
			<i>For Work In Restricted Working Space, Add</i>	50.06	
22 13 16 00-0351	EA		6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	314.38	130.12
			<i>For Below Ground Installation, Add</i>	9.75	
			<i>For Work In Restricted Working Space, Add</i>	58.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	433.51 9.86 59.13	131.46
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	570.31 10.83 64.97	144.50
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.51 6.16 36.94	82.11
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.56 7.49 44.96	99.99
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	286.75 8.19 49.16	109.33
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	448.24 11.83 70.95	157.79
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	892.37 15.95 95.69	212.71
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.59 6.82 40.92	91.00
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	225.88 7.85 47.12	104.78
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.86 8.56 51.38	114.22
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	380.28 10.43 62.57	139.13
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.66 7.40 44.37	98.62
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.77 8.19 49.16	109.33
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	384.82 10.85 65.08	144.75
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	530.97 16.75 100.49	223.45
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.09 6.36 38.18	84.84
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.77 7.40 44.37	98.62
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.81 8.08 48.46	107.74
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.41 3.58 21.49	47.72
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.41 4.95 29.71	66.06
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.60 5.42 32.54	72.31
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.94 7.12 42.71	94.99



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee.....	270.73	105.44
			<i>For Below Ground Installation, Add</i>	7.90	
			<i>For Work In Restricted Working Space, Add</i>	47.42	
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee.....	318.90	125.18
			<i>For Below Ground Installation, Add</i>	9.39	
			<i>For Work In Restricted Working Space, Add</i>	56.32	
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee.....	633.77	167.20
			<i>For Below Ground Installation, Add</i>	12.53	
			<i>For Work In Restricted Working Space, Add</i>	75.18	
22 13 16 00-0382			No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0383	EA		2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	105.15	53.86
			<i>For Below Ground Installation, Add</i>	4.04	
			<i>For Work In Restricted Working Space, Add</i>	24.23	
22 13 16 00-0384	EA		3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	121.55	63.09
			<i>For Below Ground Installation, Add</i>	4.73	
			<i>For Work In Restricted Working Space, Add</i>	28.35	
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee	126.07	66.06
			<i>For Below Ground Installation, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	29.71	
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee	153.98	66.06
			<i>For Below Ground Installation, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	29.71	
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee	168.68	89.40
			<i>For Below Ground Installation, Add</i>	6.70	
			<i>For Work In Restricted Working Space, Add</i>	40.20	
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee	175.46	89.40
			<i>For Below Ground Installation, Add</i>	6.70	
			<i>For Work In Restricted Working Space, Add</i>	40.20	
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee	230.73	100.19
			<i>For Below Ground Installation, Add</i>	7.51	
			<i>For Work In Restricted Working Space, Add</i>	45.05	
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee	240.17	100.19
			<i>For Below Ground Installation, Add</i>	7.51	
			<i>For Work In Restricted Working Space, Add</i>	45.05	
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee	241.33	100.19
			<i>For Below Ground Installation, Add</i>	7.51	
			<i>For Work In Restricted Working Space, Add</i>	45.05	
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee	250.26	104.37
			<i>For Below Ground Installation, Add</i>	7.82	
			<i>For Work In Restricted Working Space, Add</i>	46.93	
22 13 16 00-0393	EA		8" x 6" No Hub Cast Iron Reducing Sanitary Tee	496.86	141.00
			<i>For Below Ground Installation, Add</i>	10.57	
			<i>For Work In Restricted Working Space, Add</i>	63.41	
22 13 16 00-0394			No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395	EA		2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	72.91	32.34
			<i>For Below Ground Installation, Add</i>	2.42	
			<i>For Work In Restricted Working Space, Add</i>	14.54	
22 13 16 00-0396	EA		3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	84.90	37.01
			<i>For Below Ground Installation, Add</i>	2.78	
			<i>For Work In Restricted Working Space, Add</i>	16.67	
22 13 16 00-0397	EA		4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	103.48	48.97
			<i>For Below Ground Installation, Add</i>	3.67	
			<i>For Work In Restricted Working Space, Add</i>	22.04	
22 13 16 00-0398			No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee	68.65	32.34
			<i>For Below Ground Installation, Add</i>	2.42	
			<i>For Work In Restricted Working Space, Add</i>	14.54	
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee	88.00	37.01
			<i>For Below Ground Installation, Add</i>	2.78	
			<i>For Work In Restricted Working Space, Add</i>	16.67	
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee	130.52	48.97
			<i>For Below Ground Installation, Add</i>	3.67	
			<i>For Work In Restricted Working Space, Add</i>	22.04	
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee	219.75	72.31
			<i>For Below Ground Installation, Add</i>	5.42	
			<i>For Work In Restricted Working Space, Add</i>	32.54	
22 13 16 00-0403			No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee	305.25	94.99
			<i>For Below Ground Installation, Add</i>	7.12	
			<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee	367.63	144.29
			<i>For Below Ground Installation, Add</i>	10.82	
			<i>For Work In Restricted Working Space, Add</i>	64.91	
22 13 16 00-0406			No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.04 2.42 14.54	32.34
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.04 2.78 16.67	37.01
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.08 3.67 22.04	48.97
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.28 5.42 32.54	72.31
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.06 7.12 42.71	94.99
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.12 4.79 28.71	63.78
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.81 4.95 29.71	66.06
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.38 5.42 32.54	72.31
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.18 7.12 42.71	94.99
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.29 6.36 38.17	84.84
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.53 6.55 39.29	87.35
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	225.47 6.83 41.01	91.23
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.36 4.95 29.71	66.06
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.81 6.70 40.20	89.40
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.39 6.70 40.20	89.40
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.79 7.51 45.05	100.19
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.61 7.51 45.05	100.19
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.13 7.51 45.05	100.19
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.53 8.34 50.06	111.34
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.11 8.34 50.06	111.34
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.84 8.34 50.06	111.34
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	297.45 11.70 70.17	156.02
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	301.84 11.70 70.17	156.02
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	308.91 11.70 70.17	156.02
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.27 11.70 70.17	156.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0435	EA		8" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	317.13 11.70 70.17	156.02
22 13 16 00-0436	EA		10" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	383.14 12.33 74.01	164.57
22 13 16 00-0437	EA		10" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	410.55 12.88 77.30	171.81
22 13 16 00-0438	EA		10" x 8" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.77 13.98 83.88	186.50
22 13 16 00-0439			No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440	EA		1-1/2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.32 1.16 6.98	15.50
22 13 16 00-0441	EA		2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.02 1.21 7.27	16.18
22 13 16 00-0442	EA		3" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.82 1.39 8.33	18.56
22 13 16 00-0443	EA		4" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.86 1.84 11.01	24.48
22 13 16 00-0444	EA		5" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.30 2.07 12.39	27.56
22 13 16 00-0445	EA		6" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.77 2.42 14.54	32.29
22 13 16 00-0446	EA		8" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.17 3.13 18.78	41.78
22 13 16 00-0447	EA		10" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.81 3.37 20.23	44.95
22 13 16 00-0448			No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449	EA		2" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.48 2.42 14.54	32.34
22 13 16 00-0450	EA		3" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.59 2.78 16.67	37.01
22 13 16 00-0451	EA		4" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.57 3.67 22.04	48.97
22 13 16 00-0452	EA		5" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	308.55 4.09 24.54	54.60
22 13 16 00-0453	EA		6" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	324.57 4.88 29.29	65.12
22 13 16 00-0454			No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455	EA		2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.27 3.08 18.47	41.11
22 13 16 00-0456	EA		3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.20 4.10 24.58	54.66
22 13 16 00-0457	EA		4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.08 5.41 32.46	72.20
22 13 16 00-0458			No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459	EA		4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.14 3.67 22.04	48.97
22 13 16 00-0460	EA		4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.38 3.67 22.04	48.97
22 13 16 00-0461			No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462	EA		4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.75 3.67 22.04	48.97



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		22 13 16 00-0463 No Hub Cast Iron Threaded Adapter <small>(22 13 16 00-0278)</small>		
		22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....	83.05	41.11
		<i>For Below Ground Installation, Add</i>	3.08	
		<i>For Work In Restricted Working Space, Add</i>	18.47	
		22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....	89.69	41.11
		<i>For Below Ground Installation, Add</i>	3.08	
		<i>For Work In Restricted Working Space, Add</i>	18.47	
		22 13 16 00-0466 No Hub Couplings <small>(22 13 16 00-0278)</small>		
		<small>Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.</small>		
		22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....	10.35	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.35	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.79	
		22 13 16 00-0468 EA 2" No Hub Coupling.....	10.35	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.35	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.79	
		22 13 16 00-0469 EA 3" No Hub Coupling.....	12.29	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.60	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	3.32	
		22 13 16 00-0470 EA 4" No Hub Coupling.....	14.59	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.90	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	3.94	
		22 13 16 00-0471 EA 5" No Hub Coupling.....	33.73	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	4.38	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	9.11	
		22 13 16 00-0472 EA 6" No Hub Coupling.....	37.07	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	4.82	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	10.01	
		22 13 16 00-0473 EA 8" No Hub Coupling.....	69.83	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	9.08	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	18.85	
		22 13 16 00-0474 EA 10" No Hub Coupling.....	96.20	
		<i>For Medium Duty (Fernco MD-2000), Add</i>	12.51	
		<i>For Heavy Duty (Fernco HD-4000), Add</i>	25.97	
		22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	12.29	
		22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling.....	19.06	
		22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling.....	26.59	
		22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling.....	22.65	
		22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>		
		<small>Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.</small>		
		22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	47.51	
		22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	49.04	
		22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	51.49	
		22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	60.07	
		22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	113.40	
		22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	155.70	
		22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	272.78	
		22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	416.84	
		22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small>		
		<small>Note: For use when connecting pipe to an existing in-place system.</small>		
		22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub.....	11.13	
		<i>For Work In Restricted Working Space, Add</i>	3.34	
		22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub.....	13.60	
		<i>For Work In Restricted Working Space, Add</i>	4.08	
		22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub.....	14.84	
		<i>For Work In Restricted Working Space, Add</i>	4.45	
		22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub.....	18.55	
		<i>For Work In Restricted Working Space, Add</i>	5.57	
		22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub.....	22.25	
		<i>For Work In Restricted Working Space, Add</i>	6.68	
		22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub.....	29.68	
		<i>For Work In Restricted Working Space, Add</i>	8.90	
		22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub.....	34.62	
		<i>For Work In Restricted Working Space, Add</i>	10.39	
		22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small>		
		<small>See CSI section 22 11 16 00-0451 for copper and brass fittings.</small>		
		22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	19.21	5.35
		22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	23.00	5.98
		22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe.....	29.68	7.37
		22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe.....	63.08	10.21
		22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe.....	89.11	11.53
		22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe.....	178.53	13.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	254.04	20.51
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small> Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small>		
22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small> Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.		
22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	14.13	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	2.67	
22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	17.07	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	3.25	
22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	28.48	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	37.01	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	5.06	
22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	66.65	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	6.51	
22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	95.92	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.70	
22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	139.79	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	11.60	
22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515 LF 1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	28.54	4.78
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 13 16 00-0516 LF 2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	32.09	5.70
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	6.10	
22 13 16 00-0517 LF 3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	46.36	8.20
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	7.58	
22 13 16 00-0518 LF 4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	58.45	8.88
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.27	
22 13 16 00-0519 LF 6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	91.48	11.39
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	10.60	
22 13 16 00-0520 LF 8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	121.89	15.15
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	12.14	
22 13 16 00-0521 LF 10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	171.52	20.27
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	15.83	
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0524 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	10.98	4.78
<i>For Work In Restricted Working Space, Add</i>	2.13	
22 13 16 00-0525 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	13.59	5.70
<i>For Work In Restricted Working Space, Add</i>	2.56	
22 13 16 00-0526 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	22.40	8.20
<i>For Work In Restricted Working Space, Add</i>	3.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0527	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	27.62 3.99	8.88
22 13 16 00-0528	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	41.60 4.82	10.73
22 13 16 00-0529	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	60.21 6.44	14.27
22 13 16 00-0530	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	87.99 8.58	19.09
22 13 16 00-0531			Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0532	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	9.82 2.73	4.78
22 13 16 00-0533	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.23 2.56	5.70
22 13 16 00-0534	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.81 3.68	8.20
22 13 16 00-0535	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	24.18 3.99	8.88
22 13 16 00-0536	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	35.19 4.82	10.73
22 13 16 00-0537	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	51.20 6.44	14.27
22 13 16 00-0538	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	78.19 8.58	19.09
22 13 16 00-0539			Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0540			Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0541	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	36.08 8.54	19.02
22 13 16 00-0542	EA		2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	46.10 10.93	24.26
22 13 16 00-0543	EA		3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	78.98 14.69	32.57
22 13 16 00-0544	EA		4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	120.64 17.09	37.92
22 13 16 00-0545	EA		6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	161.57 22.21	49.32
22 13 16 00-0546	EA		8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	263.48 29.90	66.39
22 13 16 00-0547	EA		10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	1,008.07 39.86	88.49
22 13 16 00-0548			Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0549	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	57.46 8.54	19.02
22 13 16 00-0550	EA		2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	58.40 10.93	24.26
22 13 16 00-0551	EA		3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	110.61 14.69	32.57
22 13 16 00-0552	EA		4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	178.62 17.09	37.92
22 13 16 00-0553	EA		6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	349.58 22.21	49.32
22 13 16 00-0554	EA		8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	616.30 29.90	66.39
22 13 16 00-0555	EA		10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	1,005.43 39.86	88.49
22 13 16 00-0556			Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0557	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	37.84 8.54	19.02
22 13 16 00-0558	EA		2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	45.96 10.93	24.26
22 13 16 00-0559	EA		3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	76.35 14.69	32.57
22 13 16 00-0560	EA		4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	107.75 17.09	37.92
22 13 16 00-0561	EA		6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	428.77 22.21	49.32
22 13 16 00-0562	EA		8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	687.25 29.90	66.39
22 13 16 00-0563	EA		10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	783.84 39.86	88.49
22 13 16 00-0564			Polyvinyl Chloride (PVC) DWV Sanitary Tees <small>(22 13 16 00-0539)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0565	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	56.33	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 13 16 00-0566	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	74.13	36.44
			<i>For Work In Restricted Working Space, Add</i>	16.40	
22 13 16 00-0567	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	125.29	48.97
			<i>For Work In Restricted Working Space, Add</i>	22.04	
22 13 16 00-0568	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	184.25	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 13 16 00-0569	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	685.87	73.91
			<i>For Work In Restricted Working Space, Add</i>	33.31	
22 13 16 00-0570	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	892.59	99.53
			<i>For Work In Restricted Working Space, Add</i>	44.84	
22 13 16 00-0571			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0572	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	71.29	31.09
			<i>For Work In Restricted Working Space, Add</i>	14.01	
22 13 16 00-0573	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	84.65	33.71
			<i>For Work In Restricted Working Space, Add</i>	15.20	
22 13 16 00-0574	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	70.15	33.71
			<i>For Work In Restricted Working Space, Add</i>	15.20	
22 13 16 00-0575	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	102.89	42.13
			<i>For Work In Restricted Working Space, Add</i>	18.96	
22 13 16 00-0576	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	104.96	44.76
			<i>For Work In Restricted Working Space, Add</i>	20.16	
22 13 16 00-0577	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	124.47	47.38
			<i>For Work In Restricted Working Space, Add</i>	21.35	
22 13 16 00-0578	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	209.12	50.12
			<i>For Work In Restricted Working Space, Add</i>	22.55	
22 13 16 00-0579	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	263.56	54.21
			<i>For Work In Restricted Working Space, Add</i>	24.43	
22 13 16 00-0580	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	658.40	68.22
			<i>For Work In Restricted Working Space, Add</i>	30.75	
22 13 16 00-0581	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	2,063.19	85.30
			<i>For Work In Restricted Working Space, Add</i>	38.44	
22 13 16 00-0582	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	2,134.12	91.00
			<i>For Work In Restricted Working Space, Add</i>	41.00	
22 13 16 00-0583			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0584	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	97.94	37.92
			<i>For Work In Restricted Working Space, Add</i>	17.09	
22 13 16 00-0585	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	132.92	48.52
			<i>For Work In Restricted Working Space, Add</i>	21.87	
22 13 16 00-0586	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	266.32	65.26
			<i>For Work In Restricted Working Space, Add</i>	29.39	
22 13 16 00-0587	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	384.60	75.85
			<i>For Work In Restricted Working Space, Add</i>	34.17	
22 13 16 00-0588			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0589	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee.....	119.18	43.27
			<i>For Work In Restricted Working Space, Add</i>	19.48	
22 13 16 00-0590	EA		3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee.....	204.89	51.59
			<i>For Work In Restricted Working Space, Add</i>	23.24	
22 13 16 00-0591	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee.....	236.43	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 13 16 00-0592	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee.....	425.94	62.18
			<i>For Work In Restricted Working Space, Add</i>	28.02	
22 13 16 00-0593	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee.....	447.60	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.78	
22 13 16 00-0594			Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0539)		
22 13 16 00-0595	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers.....	47.68	21.64
			<i>For Work In Restricted Working Space, Add</i>	9.74	
22 13 16 00-0596	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers.....	87.33	25.73
			<i>For Work In Restricted Working Space, Add</i>	11.62	
22 13 16 00-0597	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	83.41	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 13 16 00-0598	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	127.21	31.09
			<i>For Work In Restricted Working Space, Add</i>	14.01	
22 13 16 00-0599	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	137.13	35.30
			<i>For Work In Restricted Working Space, Add</i>	15.89	
22 13 16 00-0600	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	486.81	41.00
			<i>For Work In Restricted Working Space, Add</i>	18.45	
22 13 16 00-0601	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	407.05	43.62
			<i>For Work In Restricted Working Space, Add</i>	19.64	
22 13 16 00-0602	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	1,015.54	52.16
			<i>For Work In Restricted Working Space, Add</i>	23.49	
22 13 16 00-0603	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....	857.98	57.85
			<i>For Work In Restricted Working Space, Add</i>	26.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0604	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	1,153.03 31.03	68.90
22 13 16 00-0605	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	903.66 34.88	77.45
22 13 16 00-0606			Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)		
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	69.36 12.81	28.47
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	90.97 16.40	36.44
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	254.27 22.04	48.97
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	516.00 25.63	56.95
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	872.36 33.31	73.91
22 13 16 00-0612			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)		
22 13 16 00-0613	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	108.05 17.09	37.92
22 13 16 00-0614	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	88.67 15.89	35.30
22 13 16 00-0615			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)		
22 13 16 00-0616	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	69.94 12.81	28.47
22 13 16 00-0617	EA		2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	82.04 16.40	36.44
22 13 16 00-0618	EA		3" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	135.39 22.04	48.97
22 13 16 00-0619	EA		4" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	200.79 25.63	56.95
22 13 16 00-0620	EA		6" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	623.79 33.31	73.91
22 13 16 00-0621	EA		8" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	774.67 44.84	99.53
22 13 16 00-0622	EA		10" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,019.66 59.79	132.67
22 13 16 00-0623			Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)		
22 13 16 00-0624	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	95.30 14.01	31.09
22 13 16 00-0625	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	98.85 15.20	33.71
22 13 16 00-0626	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	138.88 18.96	42.13
22 13 16 00-0627	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	115.07 20.16	44.76
22 13 16 00-0628	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	191.32 21.35	47.38
22 13 16 00-0629	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	167.84 22.55	50.12
22 13 16 00-0630	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	189.62 24.43	54.21
22 13 16 00-0631	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	563.65 29.55	65.59
22 13 16 00-0632	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	697.40 30.75	68.22
22 13 16 00-0633	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	663.96 38.44	85.30
22 13 16 00-0634	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	837.77 41.00	91.00
22 13 16 00-0635	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	765.03 48.40	107.39
22 13 16 00-0636	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	953.13 50.96	113.09
22 13 16 00-0637	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,109.32 54.81	121.63
22 13 16 00-0638			Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)		
22 13 16 00-0639	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	114.93 17.09	37.92
22 13 16 00-0640	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	147.41 21.87	48.52
22 13 16 00-0641	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	290.48 29.39	65.26
22 13 16 00-0642	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	504.21 34.17	75.85



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22 13 16 00-0643	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,032.03 44.42	98.62
22 13 16 00-0644	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,196.95 59.79	132.80
22 13 16 00-0645	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,855.45 79.72	176.98
22 13 16 00-0646			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes <small>(22 13 16 00-0539)</small>		
22 13 16 00-0647	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	133.00 19.48	43.27
22 13 16 00-0648	EA		3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	246.38 23.24	51.59
22 13 16 00-0649	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	228.75 25.63	56.95
22 13 16 00-0650	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	327.37 28.02	62.18
22 13 16 00-0651	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	414.99 31.78	70.49
22 13 16 00-0652	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	638.59 39.29	87.24
22 13 16 00-0653	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	747.68 46.98	104.32
22 13 16 00-0654	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	950.79 52.10	115.71
22 13 16 00-0655	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,004.75 56.94	126.41
22 13 16 00-0656	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,303.28 62.07	137.81
22 13 16 00-0657	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,575.49 69.75	154.88
22 13 16 00-0658			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0659	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	86.93 12.81	28.47
22 13 16 00-0660	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	108.54 16.40	36.44
22 13 16 00-0661	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	215.03 22.04	48.97
22 13 16 00-0662	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	379.40 25.63	56.95
22 13 16 00-0663			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0664	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	162.24 15.20	33.71
22 13 16 00-0665	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	257.03 18.96	42.13
22 13 16 00-0666	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	188.33 20.16	44.76
22 13 16 00-0667	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	344.65 22.55	50.12
22 13 16 00-0668	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	373.32 24.43	54.21
22 13 16 00-0669			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0670	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	128.10 17.09	37.92
22 13 16 00-0671	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	148.88 21.87	48.52
22 13 16 00-0672	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	230.01 29.39	65.26
22 13 16 00-0673	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	809.62 34.17	75.85
22 13 16 00-0674	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	2,673.90 44.42	98.62
22 13 16 00-0675			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0676	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	297.74 19.48	43.27
22 13 16 00-0677	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	479.87 25.63	56.95
22 13 16 00-0678	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	828.52 28.02	62.18
22 13 16 00-0679	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	749.28 31.78	70.49



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22 13 16 00-0680	EA			6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,781.11 39.29	87.24
22 13 16 00-0681				Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0539)</small>		
22 13 16 00-0682	EA			2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	184.26 16.40	36.44
22 13 16 00-0683	EA			3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	321.05 22.04	48.97
22 13 16 00-0684	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	516.08 25.63	56.95
22 13 16 00-0685	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,362.42 33.31	73.91
22 13 16 00-0686	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,707.52 44.84	99.53
22 13 16 00-0687	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	2,265.89 59.79	132.67
22 13 16 00-0688				Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0539)</small>		
22 13 16 00-0689	EA			1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	50.87 8.54	19.02
22 13 16 00-0690	EA			2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	72.60 10.93	24.26
22 13 16 00-0691	EA			3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	104.61 14.69	32.57
22 13 16 00-0692	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	187.69 17.09	37.92
22 13 16 00-0693	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	432.88 22.21	49.32
22 13 16 00-0694	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	974.67 29.90	66.39
22 13 16 00-0695	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	1,797.37 39.84	88.49
22 13 16 00-0696				Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0539)</small>		
22 13 16 00-0697	EA			1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	35.11 8.54	19.02
22 13 16 00-0698	EA			2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	43.91 10.93	24.26
22 13 16 00-0699	EA			3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	68.05 14.69	32.57
22 13 16 00-0700	EA			4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	88.31 17.09	37.92
22 13 16 00-0701	EA			6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	247.11 22.21	49.32
22 13 16 00-0702	EA			8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	599.64 29.90	66.39
22 13 16 00-0703	EA			10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	907.67 39.86	88.49
22 13 16 00-0704				Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0539)</small>		
22 13 16 00-0705	EA			1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	20.96 4.27	9.46
22 13 16 00-0706	EA			2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	34.75 5.47	12.19
22 13 16 00-0707	EA			3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	70.31 7.34	16.29
22 13 16 00-0708	EA			4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	133.51 8.54	19.02
22 13 16 00-0709				Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>		
				Note: In place piping.		
22 13 16 00-0710	EA			1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	8.35	
22 13 16 00-0711	EA			2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	9.18	
22 13 16 00-0712	EA			3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	11.68	
22 13 16 00-0713	EA			4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	15.76	
22 13 16 00-0714	EA			6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	22.54	
22 13 16 00-0715	EA			8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	30.05	
22 13 16 00-0716	EA			10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	36.73	
22 13 16 00-0717				Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
				Note: Aboveground installation.		
22 13 16 00-0718				Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0717)</small>		
				Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0719	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.95 6.55	4.78
22 13 16 00-0720	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.30 7.25	5.70
22 13 16 00-0721	LF		3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	46.57 9.01	8.20
22 13 16 00-0722	LF		4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	54.10 10.01	8.88
22 13 16 00-0723	LF		6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	94.37 13.32	11.39
22 13 16 00-0724			Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0717)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0725	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.53 2.13	4.78
22 13 16 00-0726	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	13.13 2.56	5.70
22 13 16 00-0727	LF		3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	21.74 3.68	8.20
22 13 16 00-0728	LF		4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	26.87 3.99	8.88
22 13 16 00-0729	LF		6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	43.73 4.82	10.73
22 13 16 00-0730			Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0717)</small>		
22 13 16 00-0731			Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0732	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	43.01 8.54	19.02
22 13 16 00-0733	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	57.18 10.93	24.26
22 13 16 00-0734	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	112.98 14.69	32.57
22 13 16 00-0735	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	182.37 17.09	37.92
22 13 16 00-0736	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	542.14 22.21	49.32
22 13 16 00-0737			Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0738	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	63.12 8.54	19.02
22 13 16 00-0739	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	76.84 10.93	24.26
22 13 16 00-0740	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	161.78 14.69	32.57
22 13 16 00-0741	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	279.46 17.09	37.92
22 13 16 00-0742			Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0743	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	45.74 8.54	19.02
22 13 16 00-0744	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	55.28 10.93	24.26
22 13 16 00-0745	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	102.97 14.69	32.57
22 13 16 00-0746	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	163.90 17.09	37.92
22 13 16 00-0747	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	561.63 22.21	49.32
22 13 16 00-0748			Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0730)</small>		
22 13 16 00-0749	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	67.47 12.81	28.47
22 13 16 00-0750	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	91.88 16.40	36.44



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0751	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	168.31 22.04	48.97
	22 13 16 00-0752	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	267.66 25.63	56.95
	22 13 16 00-0753	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,098.88 33.31	73.91
22 13 16 00-0754				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0755	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	86.18 14.01	31.09
	22 13 16 00-0756	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	106.13 15.20	33.71
	22 13 16 00-0757	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	86.36 15.20	33.71
	22 13 16 00-0758	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	135.66 18.96	42.13
	22 13 16 00-0759	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	140.30 20.16	44.76
	22 13 16 00-0760	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	333.85 21.35	47.38
	22 13 16 00-0761	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	320.35 22.55	50.12
	22 13 16 00-0762	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	368.95 24.43	54.21
	22 13 16 00-0763	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,206.95 30.75	68.22
22 13 16 00-0764				Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0765	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	132.18 17.09	37.92
	22 13 16 00-0766	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	182.65 21.87	48.52
	22 13 16 00-0767	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	406.27 29.39	65.26
	22 13 16 00-0768	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	608.05 34.17	75.85
22 13 16 00-0769				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0770	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	150.25 19.48	43.27
	22 13 16 00-0771	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	234.59 23.24	51.59
	22 13 16 00-0772	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	271.35 25.63	56.95
	22 13 16 00-0773	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	497.46 26.39	58.57
	22 13 16 00-0774	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	520.57 29.93	66.40
22 13 16 00-0775				Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0776	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	92.57 12.81	28.47
	22 13 16 00-0777	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	105.85 16.40	36.44
	22 13 16 00-0778	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	186.76 22.04	48.97
	22 13 16 00-0779	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	296.50 25.63	56.95
	22 13 16 00-0780	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	885.59 33.31	73.91
22 13 16 00-0781				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0730)</small>		
	22 13 16 00-0782	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	135.65 14.01	31.09
	22 13 16 00-0783	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	138.73 15.20	33.71
	22 13 16 00-0784	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	155.24 20.16	44.76
	22 13 16 00-0785	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	244.76 22.55	50.12
	22 13 16 00-0786	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	279.57 24.43	54.21
	22 13 16 00-0787	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	742.42 30.75	68.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0788			Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0789	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	162.99 17.09	37.92
22 13 16 00-0790	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	209.29 21.87	48.52
22 13 16 00-0791	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	450.57 29.39	65.26
22 13 16 00-0792	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	828.20 34.17	75.85
22 13 16 00-0793			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0794	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	189.50 19.48	43.27
22 13 16 00-0795	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	326.18 23.24	51.59
22 13 16 00-0796	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	347.21 25.63	56.95
22 13 16 00-0797	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	521.66 28.02	62.18
22 13 16 00-0798	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	671.62 31.78	70.49
22 13 16 00-0799			Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0800	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	122.35 12.81	28.47
22 13 16 00-0801	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	158.16 16.40	36.44
22 13 16 00-0802	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	244.00 22.04	48.97
22 13 16 00-0803	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	415.23 24.14	53.63
22 13 16 00-0804			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	134.50 15.20	33.71
22 13 16 00-0806	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	261.68 18.96	42.13
22 13 16 00-0807	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	191.22 20.16	44.76
22 13 16 00-0808	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	351.43 22.55	50.12
22 13 16 00-0809	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	380.59 24.43	54.21
22 13 16 00-0810			Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0811	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	260.27 21.87	48.52
22 13 16 00-0812	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	530.12 29.39	65.26
22 13 16 00-0813			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0814	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	215.71 19.48	43.27
22 13 16 00-0815	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	510.22 25.63	56.95
22 13 16 00-0816			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0817	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	136.38 12.81	28.47
22 13 16 00-0818	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	172.19 16.40	36.44
22 13 16 00-0819	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	275.35 22.04	48.97
22 13 16 00-0820	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	462.81 25.63	56.95
22 13 16 00-0821			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0730)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0822 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	60.58	19.02
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 13 16 00-0823 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	88.27	24.26
<i>For Work In Restricted Working Space, Add</i>	10.93	
22 13 16 00-0824 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	128.61	32.57
<i>For Work In Restricted Working Space, Add</i>	14.69	
22 13 16 00-0825 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	244.45	37.92
<i>For Work In Restricted Working Space, Add</i>	17.09	
22 13 16 00-0826 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	588.78	49.32
<i>For Work In Restricted Working Space, Add</i>	22.21	
22 13 16 00-0827 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0730)		
22 13 16 00-0828 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	39.54	19.02
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 13 16 00-0829 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	48.11	24.26
<i>For Work In Restricted Working Space, Add</i>	10.93	
22 13 16 00-0830 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	80.72	32.57
<i>For Work In Restricted Working Space, Add</i>	14.69	
22 13 16 00-0831 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	109.29	37.92
<i>For Work In Restricted Working Space, Add</i>	17.09	
22 13 16 00-0832 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	332.74	49.32
<i>For Work In Restricted Working Space, Add</i>	22.21	
22 13 16 00-0833 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0730)		
22 13 16 00-0834 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	60.51	21.64
<i>For Work In Restricted Working Space, Add</i>	9.74	
22 13 16 00-0835 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	127.68	25.73
<i>For Work In Restricted Working Space, Add</i>	11.62	
22 13 16 00-0836 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	117.30	28.47
<i>For Work In Restricted Working Space, Add</i>	12.81	
22 13 16 00-0837 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	193.82	31.09
<i>For Work In Restricted Working Space, Add</i>	14.01	
22 13 16 00-0838 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	206.89	35.30
<i>For Work In Restricted Working Space, Add</i>	15.89	
22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	97.11	28.47
<i>For Work In Restricted Working Space, Add</i>	12.81	
22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	142.71	36.44
<i>For Work In Restricted Working Space, Add</i>	16.40	
22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	476.76	48.97
<i>For Work In Restricted Working Space, Add</i>	22.04	
22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	911.67	56.95
<i>For Work In Restricted Working Space, Add</i>	25.63	
22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	132.90	37.92
<i>For Work In Restricted Working Space, Add</i>	17.09	
22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	124.19	35.30
<i>For Work In Restricted Working Space, Add</i>	15.89	
22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	28.36	9.46
<i>For Work In Restricted Working Space, Add</i>	4.27	
22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	43.26	12.19
<i>For Work In Restricted Working Space, Add</i>	5.47	
22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	97.41	16.29
<i>For Work In Restricted Working Space, Add</i>	7.34	
22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	189.81	19.02
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	44.12	21.64
<i>For Work In Restricted Working Space, Add</i>	9.74	
22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	101.67	25.73
<i>For Work In Restricted Working Space, Add</i>	11.62	
22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	82.71	28.47
<i>For Work In Restricted Working Space, Add</i>	12.81	
22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	191.80	31.09
<i>For Work In Restricted Working Space, Add</i>	14.01	
22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	137.04	35.30
<i>For Work In Restricted Working Space, Add</i>	15.89	
22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	391.40	41.08
<i>For Work In Restricted Working Space, Add</i>	18.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0859			Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings <small>(22 13 16 00-0730)</small>		
22 13 16 00-0860	EA		1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling 138.28	138.28	19.02
			<i>For Work In Restricted Working Space, Add</i> 8.54		
22 13 16 00-0861	EA		2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling 153.57	153.57	24.26
			<i>For Work In Restricted Working Space, Add</i> 10.93		
22 13 16 00-0862	EA		3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling 173.42	173.42	32.57
			<i>For Work In Restricted Working Space, Add</i> 14.69		
22 13 16 00-0863	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling 188.72	188.72	37.92
			<i>For Work In Restricted Working Space, Add</i> 17.09		
22 13 16 00-0864			Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe <small>(22 13 16 00-0717)</small>		
			Note: In place piping.		
22 13 16 00-0865	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe 8.35	8.35	
22 13 16 00-0866	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe 9.18	9.18	
22 13 16 00-0867	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe 11.68	11.68	
22 13 16 00-0868	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe 15.76	15.76	
22 13 16 00-0869	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe 22.54	22.54	
22 13 16 00-0870			Elastomeric Flexible Pipe Couplings <small>(22 13 16)</small>		
22 13 16 00-0871			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0870)</small>		
			Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) 14.10	14.10	4.95
			<i>For Work In Restricted Working Space, Add</i> 2.97		
22 13 16 00-0873	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) 15.17	15.17	5.25
			<i>For Work In Restricted Working Space, Add</i> 3.15		
22 13 16 00-0874	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22) 15.96	15.96	5.56
			<i>For Work In Restricted Working Space, Add</i> 3.34		
22 13 16 00-0875	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33) 18.27	18.27	5.88
			<i>For Work In Restricted Working Space, Add</i> 3.52		
22 13 16 00-0876	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44) 20.54	20.54	6.18
			<i>For Work In Restricted Working Space, Add</i> 3.71		
22 13 16 00-0877	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) 25.79	25.79	6.49
			<i>For Work In Restricted Working Space, Add</i> 3.89		
22 13 16 00-0878	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) 31.08	31.08	6.81
			<i>For Work In Restricted Working Space, Add</i> 4.08		
22 13 16 00-0879	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) 41.73	41.73	7.42
			<i>For Work In Restricted Working Space, Add</i> 4.45		
22 13 16 00-0880	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) 54.70	54.70	8.65
			<i>For Work In Restricted Working Space, Add</i> 5.20		
22 13 16 00-0881			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0870)</small>		
			Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0882	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) 15.00	15.00	5.25
			<i>For Work In Restricted Working Space, Add</i> 3.15		
22 13 16 00-0883	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) 16.24	16.24	5.56
			<i>For Work In Restricted Working Space, Add</i> 3.34		
22 13 16 00-0884	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) 19.62	19.62	5.88
			<i>For Work In Restricted Working Space, Add</i> 3.52		
22 13 16 00-0885	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) 17.78	17.78	5.88
			<i>For Work In Restricted Working Space, Add</i> 3.52		
22 13 16 00-0886	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) 23.86	23.86	6.18
			<i>For Work In Restricted Working Space, Add</i> 3.71		
22 13 16 00-0887	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) 22.92	22.92	6.18
			<i>For Work In Restricted Working Space, Add</i> 3.71		
22 13 16 00-0888	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) 21.17	21.17	6.18
			<i>For Work In Restricted Working Space, Add</i> 3.71		
22 13 16 00-0889	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) 29.89	29.89	6.49
			<i>For Work In Restricted Working Space, Add</i> 3.89		
22 13 16 00-0890	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) 27.22	27.22	6.49
			<i>For Work In Restricted Working Space, Add</i> 3.89		
22 13 16 00-0891	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) 36.60	36.60	6.81
			<i>For Work In Restricted Working Space, Add</i> 4.08		
22 13 16 00-0892	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) 32.60	32.60	6.81
			<i>For Work In Restricted Working Space, Add</i> 4.08		
22 13 16 00-0893	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) 33.72	33.72	6.81
			<i>For Work In Restricted Working Space, Add</i> 4.08		
22 13 16 00-0894	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) 65.88	65.88	12.37
			<i>For Work In Restricted Working Space, Add</i> 7.42		
22 13 16 00-0895	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) 54.79	54.79	12.37
			<i>For Work In Restricted Working Space, Add</i> 7.42		
22 13 16 00-0896	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) 68.76	68.76	13.91
			<i>For Work In Restricted Working Space, Add</i> 8.35		



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 13 16 00-0897	Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small>		
	Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898	EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	53.93	33.99
22 13 16 00-0899	EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	57.77	35.49
22 13 16 00-0900	EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	66.82	40.68
22 13 16 00-0901	EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	88.21	53.79
22 13 16 00-0902	EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	105.68	64.30
22 13 16 00-0903	EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	122.03	74.19
22 13 16 00-0904	EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	162.67	93.97
22 13 16 00-0905	EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	198.14	105.11
22 13 16 00-0906	EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	247.70	116.85

22 13 16 00-0907	Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) <small>(22 13 16)</small>		
22 13 16 00-0908	EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	101.07	25.62
22 13 16 00-0909	EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	106.77	28.47
22 13 16 00-0910	EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	159.44	37.01
22 13 16 00-0911	EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	186.85	42.71
22 13 16 00-0912	EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	217.80	48.40
22 13 16 00-0913	EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	364.41	54.10

22 13 16 00-0914	Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) <small>(22 13 16)</small>		
22 13 16 00-0915	EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	206.76	25.62
22 13 16 00-0916	EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	212.46	28.47
22 13 16 00-0917	EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	252.79	37.01
22 13 16 00-0918	EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	316.00	42.71
22 13 16 00-0919	EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	431.07	48.40
22 13 16 00-0920	EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	442.45	54.10

22 13 16 00-0921	Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) <small>(22 13 16)</small>		
	Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0922	EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	392.63	25.62
22 13 16 00-0923	EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	398.33	28.47
22 13 16 00-0924	EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	458.07	37.01
22 13 16 00-0925	EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	515.70	42.71
22 13 16 00-0926	EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	601.78	48.40
22 13 16 00-0927	EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	657.61	54.10

22 13 19 Sanitary Waste Piping Specialties (22 13)

22 13 19 13 Sanitary Drains (22 13 19)

22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)

22 13 19 13-0002	EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet	818.30	122.43
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0003	EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	899.17	137.23
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0004	EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	877.18	151.81
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0005	EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	908.44	167.53
	For Vandal Proof Screws, Add	11.00	
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
22 13 19 13-0006	EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet	821.47	137.23
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	48.00	
	For Cast Iron Dome Grate, Add	17.00	
	For Nikaloy Dome Grate, Add	178.50	
	For Bronze Dome Grate, Add	143.00	
	For Cast Iron Extension Collar, Each 3", Add	57.50	
	For Galvanized Extension Collar, Each 3", Add	117.50	
	For Galvanized Cast Iron Parts, Add	87.50	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0007	EA		Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	850.75	151.81
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	882.01	167.53
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,365.88	137.23
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,395.16	151.81
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,426.42	167.53
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0012	EA		Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,286.59	137.23
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0013	EA		Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,315.71	151.81
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0014	EA		Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,347.13	167.53
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0015	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,413.32	137.12
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,442.57	151.81
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,473.99	167.53
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,227.28	137.12
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,256.53	151.81
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,287.95	167.53
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,118.93	137.12
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,148.18	151.81
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,179.60	167.53
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0024 Square Or Rectangular Top Drains (22 13 19 13)		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	971.98	137.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,001.55	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,032.65	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,051.26	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,080.83	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,111.93	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,400.10	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,429.67	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,460.77	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	913.84	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	943.41	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	974.51	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,014.26	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,043.83	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,074.93	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,297.03	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,326.60	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,357.70	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....	3,366.81	151.92
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....	3,397.91	167.53
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....	4,228.34	151.92
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....	4,259.44	167.53
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top	4,125.28	151.92
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top	4,156.38	167.53
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,421.24	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,450.81	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,481.91	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,830.87	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,860.44	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,891.54	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,926.01	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,955.58	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,986.68	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,663.34	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,692.91	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,724.01	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,336.68	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,366.25	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,397.35	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,685.52	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,715.09	151.92
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,746.19	167.53
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,780.66	137.12
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
<i>For Sediment Bucket, Add</i>	22.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,810.23	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,841.33	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	2,380.56	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,410.13	151.92
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,441.23	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0073 Funnel Type Floor Drains <small>(22 13 19 13)</small>					
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,341.66	122.43
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,371.03	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	1,400.28	151.81
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	1,431.70	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	1,965.65	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	1,994.90	151.81
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	2,026.32	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....	1,862.58	137.12
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....	1,891.83	151.81
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....	1,923.25	167.53
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,853.21	122.43
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,882.68	137.12
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,911.93	151.81
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
			<i>For Primer Tap, Add</i>	33.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0088 EA 12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,943.35 30.50 247.00 33.50	167.53
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,975.77 30.50 247.00 33.50	183.70
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,083.53 29.50 31.00 77.50 273.75	137.12
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,113.10 29.50 31.00 77.50 273.75	151.92
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,144.20 29.50 31.00 77.50 273.75	167.53
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,176.62 29.50 31.00 77.50 273.75	183.70
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,891.65 29.50 31.00 77.50 273.75	137.12
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,921.22 29.50 31.00 77.50 273.75	151.92
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,952.32 29.50 31.00 77.50 273.75	167.53
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,984.74 29.50 31.00 77.50 273.75	183.70
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,877.40 29.50 31.00 77.50 273.75	137.12
22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,906.97 29.50 31.00 77.50 273.75	151.92
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,938.07 29.50 31.00 77.50 273.75	167.53
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,970.49 29.50 31.00 77.50 273.75	183.70
22 13 19 13-0102 Other Drains <small>(22 13 19 13)</small>		
22 13 19 13-0103 Shower Drains <small>(22 13 19 13-0102)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer..... Note: Includes two 2-5/8" screws.	52.58	12.37
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer Note: Includes two 2-5/8" screws.	58.53	12.37
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	121.04	24.73
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket..... Note: For 2" pipe. Kohler K-9132.	155.23	24.73
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	1,352.13 30.50 87.50 33.50	122.43
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	1,381.60 30.50 87.50 33.50	137.12
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	1,410.85 30.50 87.50 33.50	151.81
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		1-1/2" Drain, 3" Sink Opening Lever Drain.....	280.43	82.57
22 13 19 13-0114	EA		2" Drain, 3" Sink Opening Lever Drain.....	297.50	91.11
22 13 19 13-0115	EA		1-1/2" Drain, 3-1/2" Sink Opening Lever Drain	280.43	82.57
22 13 19 13-0116	EA		2" Drain, 3-1/2" Sink Opening Lever Drain.....	297.50	91.11
22 13 19 13-0117	EA		1-1/2" Drain, 3" Sink Opening Twist Drain	280.43	82.57
22 13 19 13-0118	EA		2" Drain, 3" Sink Opening Twist Drain	297.50	91.11
22 13 19 13-0119	EA		1-1/2" Drain, 3-1/2" Sink Opening Twist Drain	280.43	82.57
22 13 19 13-0120	EA		2" Drain, 3-1/2" Sink Opening Twist Drain	297.50	91.11
22 13 19 13-0121	EA		1-1/2" To 2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	386.45	91.11
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122) Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,659.28 58.50 97.00 38.00 36.00 33.50 47.00 62.50	137.23
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,688.99 58.50 97.00 38.00 36.00 33.50 47.00 62.50	152.04
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,719.76 58.50 97.00 38.00 36.00 33.50 47.00 62.50	167.53
22 13 19 13-0127			Square Top Floor Receptors (22 13 19 13-0122) Note: With acid resistant coating.		
22 13 19 13-0128	EA		8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,957.42 37.50 69.00 39.50 36.00 15.50 88.00 97.00	122.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top	1,986.92	137.23
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top	2,016.04	151.81
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top	2,047.46	167.53
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	112.91	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	91.80	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	100.24	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	121.35	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	108.69	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	155.37	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	172.36	14.24
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	214.52	14.24
Note: Prevents emission of sewer gases.		
22 13 19 26 Grease Removal Devices (22 13 19)		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,315.32	85.42
Note: Josam 60102H.		
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,329.23	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,534.16	192.19
Note: Josam 60103H.		
<i>For Flange And Clamp Device, Add</i>	388.28	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,405.62	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,176.80	213.54
Note: Josam 60104H.		
<i>For Flange And Clamp Device, Add</i>	402.52	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,535.46	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,629.06	234.89
Note: Josam 60105H.		
<i>For Flange And Clamp Device, Add</i>	416.76	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,659.85	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,943.46	256.24
Note: Josam 60106H.		
<i>For Flange And Clamp Device, Add</i>	461.39	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,729.53	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,614.57	298.95
Note: Josam 60107H.		
<i>For Flange And Clamp Device, Add</i>	501.07	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,904.72	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	4,714.55	341.66
Note: Josam 60108H.		
<i>For Flange And Clamp Device, Add</i>	570.49	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,032.86	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	9,265.39	384.37
Note: Josam 60109H.		
<i>For Flange And Clamp Device, Add</i>	800.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0011	EA		100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H.	10,483.34	477.24
			<i>For Flange And Clamp Device, Add</i>	926.17	
22 13 19 26-0012	EA		150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A.	12,935.92	763.59
			<i>For Flange And Clamp Device, Add</i>	1,277.06	
22 13 19 26-0013	EA		200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A.	18,561.80	954.48
			<i>For Flange And Clamp Device, Add</i>	1,533.60	
22 13 19 26-0014	EA		250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	21,653.00	1,145.38
			<i>For Flange And Clamp Device, Add</i>	1,973.83	
22 13 19 26-0015	EA		350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.	28,133.75	1,336.28
			<i>For Flange And Clamp Device, Add</i>	2,338.85	
22 13 19 26-0016	EA		500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	36,396.45	1,527.17
			<i>For Flange And Clamp Device, Add</i>	2,739.40	
22 13 19 26-0017			Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA		20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	3,784.44	234.89
22 13 19 26-0019	EA		35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	4,868.42	298.95
22 13 19 26-0020	EA		50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	8,028.98	341.66
22 13 19 26-0021			Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022			Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA		7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	3,325.57	85.42
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,329.23	
22 13 19 26-0024	EA		10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,910.57	192.19
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,405.62	
22 13 19 26-0025	EA		15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	4,178.30	213.54
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,535.46	
22 13 19 26-0026	EA		20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	5,098.84	234.89
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,659.85	
22 13 19 26-0027	EA		25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	6,146.29	256.24
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,729.53	
22 13 19 26-0028	EA		35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	6,355.69	298.95
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,904.72	
22 13 19 26-0029	EA		50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	7,255.08	341.66
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,032.86	
22 13 19 26-0030			Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA		35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60115A-SA.	8,538.07	298.95
22 13 19 26-0032			Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26) Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		
22 13 19 26-0033	EA		20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	7,277.34	234.89
22 13 19 26-0034	EA		25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	8,463.33	256.24
22 13 19 26-0035	EA		35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,253.73	298.95
22 13 19 26-0036			Precast Concrete Grease Interceptor (22 13 19 26) Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037	EA		1,000 Gallon Pre-Cast Grease Interceptor.....	5,140.87	429.90
22 13 19 26-0038	EA		1,250 Gallon Pre-Cast Grease Interceptor.....	5,873.48	429.90
22 13 19 26-0039	EA		1,500 Gallon Pre-Cast Grease Interceptor.....	6,666.74	491.47
22 13 19 26-0040	EA		2,000 Gallon Pre-Cast Grease Interceptor.....	7,604.80	694.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	8,583.06	933.83
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	12,850.43	1,228.61
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	16,556.94	2,014.73
22 13 19 26-0044 Coated Steel Manual Oil Interceptor (22 13 19 26)		
Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,813.26	325.21
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	14,715.17	386.41
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	17,800.81	475.45
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	19,331.42	515.02
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	23,375.11	562.00
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	31,163.12	618.27
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	53,254.09	711.80
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	57,947.34	875.79
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	71,504.81	949.25
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	100,621.17	1,138.87
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	116,327.01	1,224.29
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	146,829.42	1,460.03
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	178,914.03	1,196.38
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	211,924.90	1,423.58
22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	590.04	32.69
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	602.57	41.11
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	870.69	54.66
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	2,366.47	74.98
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	2,891.27	98.69
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	8,427.80	121.75
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	9,539.69	157.90
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,452.53	77.90
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,223.38	94.52
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,748.13	121.86
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,869.03	136.23
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	5,376.49	161.44
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,997.31	123.34
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	4,058.35	164.00
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,916.62	201.77
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,951.71	224.94
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	144.19	41.11
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	173.02	54.66
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	500.59	74.98
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	339.15	82.23
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	451.59	109.33
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	775.54	149.96
Note: Includes valve body, flapper assembly and collar.		
22 13 19 36 Air-Admittance Valves (22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent	273.66	15.94
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent	327.85	15.94
22 13 23 Sanitary Waste Interceptors (22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0002	EA		1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1180).....	1,292.85	161.27
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003	EA		1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1184).....	1,294.46	161.27
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004	EA		1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,817.62	161.27
			Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005	EA		1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,817.62	161.27
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006	EA		1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,936.05	161.27
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007			Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008	EA		1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	332.84	55.15
			For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009	EA		2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	339.90	58.73
			For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010			Sediment Strainers (22 13 23)		
22 13 23 00-0011	EA		2" Strainer, Pump Suction Side.....	186.45	75.09
22 13 29			Sanitary Sewerage Pumps (22 13)		
			Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13			Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001			Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DEMING Series 4500) (22 13 29 13)		
			Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002			1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0003	EA		1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,077.01	1,366.18
22 13 29 13-0004	EA		3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,405.53	1,366.18
22 13 29 13-0005	EA		1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,734.03	1,366.18
22 13 29 13-0006	EA		1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	9,047.38	1,366.18
22 13 29 13-0007			2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008	EA		3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	8,986.73	1,366.18
22 13 29 13-0009	EA		1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,113.09	1,366.18
22 13 29 13-0010	EA		2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,201.53	1,366.18
22 13 29 13-0011	EA		3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,808.01	1,366.18
22 13 29 13-0012	EA		5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	10,401.85	1,366.18
22 13 29 13-0013	EA		7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	11,311.57	1,366.18
22 13 29 13-0014	EA		10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	12,221.29	1,366.18
22 13 29 13-0015	EA		15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	14,034.83	1,818.09
22 13 29 13-0016			3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017	EA		2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,619.83	1,366.18
22 13 29 13-0018	EA		3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,619.83	1,366.18
22 13 29 13-0019	EA		5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,838.74	1,366.18
22 13 29 13-0020	EA		7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	11,537.28	1,366.18
22 13 29 13-0021	EA		10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	11,835.24	1,366.18
22 13 29 13-0022	EA		15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	14,139.65	1,818.09
22 13 29 13-0023	EA		20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	14,897.75	1,818.09
22 13 29 13-0024			Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025	EA		2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026	EA		3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027	EA		4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028	EA		5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029	EA		6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030			Float Switches (22 13 29 13-0001)		
			Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031	EA		Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0032	EA			Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033	EA			Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034				Square Or Round Steel Sump Covers <small>(22 13 29 13-0001)</small>		
22 13 29 13-0035	EA			24" Steel Sump Covers, Square Or Round.....	970.38	45.56
22 13 29 13-0036	EA			30" Steel Sump Covers, Square Or Round.....	1,074.12	51.25
22 13 29 13-0037	EA			36" Steel Sump Covers, Square Or Round.....	1,491.60	68.33
22 13 29 13-0038	EA			40" Steel Sump Covers, Square Or Round.....	2,172.61	79.72
22 13 29 13-0039	EA			42" Steel Sump Covers, Square Or Round.....	2,330.44	82.57
22 13 29 13-0040	EA			48" Steel Sump Covers, Square Or Round.....	2,492.96	85.42
22 13 29 13-0041	EA			54" Steel Sump Covers, Square Or Round.....	3,178.28	102.49
22 13 29 13-0042	EA			60" Steel Sump Covers, Square Or Round.....	4,315.83	113.89
22 13 29 13-0043	EA			72" Steel Sump Covers, Square Or Round.....	5,473.16	142.36
22 13 29 13-0044	EA			84" Steel Sump Covers, Square Or Round.....	6,967.41	156.59
22 13 29 16				Submersible Sewerage Pumps <small>(22 13 29)</small>		
22 13 29 16-0001				Submersible Sewage Pumps With Vortex Impeller <small>(22 13 29 16)</small>		
22 13 29 16-0002				Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller <small>(22 13 29 16-0001)</small>		
				Note: Includes 25' cord.		
22 13 29 16-0003	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,551.31	82.85
22 13 29 16-0004	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,654.15	82.85
22 13 29 16-0005	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,622.51	82.85
22 13 29 16-0006	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,774.13	82.85
22 13 29 16-0007	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,774.13	82.85
22 13 29 16-0008	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,875.51	103.56
22 13 29 16-0009	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,009.99	103.56
22 13 29 16-0010	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,027.14	103.56
22 13 29 16-0011				Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller <small>(22 13 29 16-0001)</small>		
				Note: Includes 20' cord.		
22 13 29 16-0012	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,580.31	82.85
22 13 29 16-0013	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,727.99	82.85
22 13 29 16-0014	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,658.11	82.85
22 13 29 16-0015	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,800.50	82.85
22 13 29 16-0016	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,928.40	82.85
22 13 29 16-0017	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,793.76	103.56
22 13 29 16-0018	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,946.71	103.56
22 13 29 16-0019	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,945.39	103.56
22 13 29 16-0020	EA			1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,225.80	166.93
22 13 29 16-0021	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,355.01	166.93
22 13 29 16-0022	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,377.43	166.93
22 13 29 16-0023	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,379.79	204.03
22 13 29 16-0024	EA			2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,527.46	204.03
22 13 29 16-0025	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,531.41	204.03
22 13 29 16-0026				Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller <small>(22 13 29 16-0001)</small>		
				Note: Includes 20' cord.		
22 13 29 16-0027	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,875.66	82.85
22 13 29 16-0028	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,126.17	82.85
22 13 29 16-0029	EA			1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	2,074.60	103.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0030 EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,226.23	103.56
22 13 29 16-0031 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,527.74	166.93
22 13 29 16-0032 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,679.36	166.93
22 13 29 16-0033 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,683.04	204.03
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,834.67	204.03
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)		
Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,578.90	103.56
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,883.85	168.14
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,228.23	205.51
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,466.27	249.11
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,133.20	292.69
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,850.32	336.29
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16)		
Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,226.35	371.17
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,666.98	371.17
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,666.98	371.17
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,581.00	494.89
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,021.63	494.89
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,021.63	494.89
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,051.03	618.62
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,491.66	618.62
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,491.66	618.62
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,412.69	742.34
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,853.32	742.34
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,853.32	742.34
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,295.24	866.07
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,735.87	866.07
22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,735.87	866.07
22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,631.26	989.78
22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,631.26	989.78
22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)		
22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	754.32	91.83
Note: Includes alarm horn, warning light and alarm float switch.		
22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	779.52	91.83
Note: Includes alarm horn, warning light, and alarm float switch.		
22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,544.93	122.44
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.		
22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	2,189.92	122.44
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,521.34	122.44
Note: Includes alarm horn and warning light. Control float switches not included.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	4,730.32	122.44
22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	7,559.87	153.05
22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	6,370.98	153.05
22 13 29 16-0069 EA Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,710.72	153.05
22 13 29 16-0070 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,887.08	153.05
22 13 29 16-0071 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,810.24	153.05
22 13 29 16-0072 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,969.18	153.05
22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn and warning light. Float switches not included..	3,388.82	153.05
22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure Note: Includes alarm horn, warning light and 15' tethered float.	627.60	61.22
22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord Note: Not for use with Intrinsically Safe Control Systems.	116.65	30.61
22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only	131.51	30.61
22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord Note: Not for use with Intrinsically Safe Control Systems.	150.51	30.61
22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	147.46	30.61
22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats Note: Not for use with Intrinsically Safe Control Systems.	458.32	30.61
22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	467.80	30.61
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords Note: Not for use with Intrinsically Safe Control Systems.	510.74	30.61
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	532.66	30.61
22 13 29 16-0083 EA Float Switch Tree Note: Tree only.	242.28	30.61
22 13 29 16-0084 EA Adjustable Weight For Float Switch	63.82	15.31
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge Note: Lifting equipment not included.	1,289.44	91.83
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge Note: Lifting equipment not included.	2,024.64	122.44
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge Note: Lifting equipment not included.	2,645.46	153.05
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge	2,588.37	91.83
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge	3,656.36	91.83
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	366.20	61.22
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems.....	649.76	76.53
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems.....	648.91	91.83
22 13 29 16-0093 EA 12" Stainless Steel Lifting Cable	180.48	30.61
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge Note: Used for shallow systems where guide rails are not necessary.	361.35	30.61

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	157.57	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	204.31	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	468.64	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	659.08	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	849.50	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	988.62	
22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	399.34	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	814.89	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,465.46	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,973.71	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,274.60	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,402.28	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,822.70	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	3,278.11	

22 60 Gas and Vacuum Systems for Laboratory and Healthcare

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 13 Facility Sanitary Sewerage**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**Facilities** ⁽²²⁾**22 66 Chemical-Waste Systems for Laboratory and Healthcare****Facilities** ^(22 60)**22 66 53 Laboratory Chemical-Waste and Vent Piping** ^(22 66)

22 66 53 00-0001	Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings ^(22 66 53)		
22 66 53 00-0002	Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings ^(22 66 53 00-0001)		
22 66 53 00-0003	Schedule 40 Polypropylene Acid Resistant DWV Pipe ^(22 66 53 00-0002)		
22 66 53 00-0004	LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	14.65	6.49
	<i>For Schedule 80, Add</i>	2.53	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	2.17	
	<i>For Work In Restricted Working Space, Add</i>	2.93	
22 66 53 00-0005	LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	17.59	7.28
	<i>For Schedule 80, Add</i>	3.43	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	2.93	
	<i>For Work In Restricted Working Space, Add</i>	3.30	
22 66 53 00-0006	LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	27.81	10.59
	<i>For Schedule 80, Add</i>	6.18	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	5.29	
	<i>For Work In Restricted Working Space, Add</i>	4.78	
22 66 53 00-0007	LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	37.58	13.78
	<i>For Schedule 80, Add</i>	8.78	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	7.51	
	<i>For Work In Restricted Working Space, Add</i>	6.21	
22 66 53 00-0008	LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	60.81	20.27
	<i>For Schedule 80, Add</i>	15.83	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	13.55	
	<i>For Work In Restricted Working Space, Add</i>	9.11	
22 66 53 00-0009	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends ^(22 66 53 00-0002)		
22 66 53 00-0010	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	56.39	24.48
	<i>For Work In Restricted Working Space, Add</i>	11.02	
22 66 53 00-0011	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	72.86	32.34
	<i>For Work In Restricted Working Space, Add</i>	14.54	
22 66 53 00-0012	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	96.97	37.01
	<i>For Work In Restricted Working Space, Add</i>	16.67	
22 66 53 00-0013	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	139.42	48.97
	<i>For Work In Restricted Working Space, Add</i>	22.04	
22 66 53 00-0014	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	270.53	72.31
	<i>For Work In Restricted Working Space, Add</i>	32.54	
22 66 53 00-0015	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends ^(22 66 53 00-0002)		
22 66 53 00-0016	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	56.05	24.48
	<i>For Work In Restricted Working Space, Add</i>	11.02	
22 66 53 00-0017	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	71.97	32.34
	<i>For Work In Restricted Working Space, Add</i>	14.54	
22 66 53 00-0018	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	98.67	37.01
	<i>For Work In Restricted Working Space, Add</i>	16.67	
22 66 53 00-0019	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	122.38	48.97
	<i>For Work In Restricted Working Space, Add</i>	22.04	
22 66 53 00-0020	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	244.12	72.31
	<i>For Work In Restricted Working Space, Add</i>	32.54	
22 66 53 00-0021	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees ^(22 66 53 00-0002)		
22 66 53 00-0022	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	102.95	52.39
	<i>For Work In Restricted Working Space, Add</i>	23.57	
22 66 53 00-0023	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	128.26	66.06
	<i>For Work In Restricted Working Space, Add</i>	29.71	
22 66 53 00-0024	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	166.95	72.31
	<i>For Work In Restricted Working Space, Add</i>	32.54	
22 66 53 00-0025	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	229.94	94.99
	<i>For Work In Restricted Working Space, Add</i>	42.71	
22 66 53 00-0026	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	401.94	151.92
	<i>For Work In Restricted Working Space, Add</i>	68.33	
22 66 53 00-0027	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees ^(22 66 53 00-0002)		
22 66 53 00-0028	EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	128.22	66.06
	<i>For Work In Restricted Working Space, Add</i>	29.71	
22 66 53 00-0029	EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	162.87	72.31
	<i>For Work In Restricted Working Space, Add</i>	32.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	159.24 32.54	72.31
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	220.63 42.71	94.99
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	224.14 42.71	94.99
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	376.02 68.33	151.92
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small>		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	114.86 23.57	52.39
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	131.14 29.71	66.06
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	175.77 32.54	72.31
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	234.00 42.71	94.99
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	351.68 68.33	151.92
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	109.64 23.57	52.39
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	134.46 29.71	66.06
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	170.64 32.54	72.31
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	233.00 42.71	94.99
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	457.86 68.33	151.92
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	142.64 29.71	66.06
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	166.44 32.54	72.31
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	166.44 32.54	72.31
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	229.37 42.71	94.99
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	229.37 42.71	94.99
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	409.69 68.33	151.92
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	412.51 68.33	151.92
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	377.21 68.33	151.92
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross <i>For Work In Restricted Working Space, Add</i>	136.43 29.45	65.48
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	169.61 37.14	82.57
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	227.26 40.67	90.43
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	315.24 53.39	118.67
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	557.75 85.42	189.85
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends <small>(22 66 53 00-0002)</small>		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	100.77 23.57	52.39
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	131.49 29.71	66.06
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	150.01 32.54	72.31
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	206.96 42.71	94.99
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	121.83 29.71	66.06

22 Plumbing

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0067	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	146.12 32.54	72.31
22 66 53 00-0068	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	147.68 32.54	72.31
22 66 53 00-0069	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	201.18 42.71	94.99
22 66 53 00-0070	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	202.17 42.71	94.99
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)					
22 66 53 00-0072	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	118.98 27.33	60.82
22 66 53 00-0073	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	158.22 35.96	79.95
22 66 53 00-0074	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	238.12 48.81	108.54
22 66 53 00-0075	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	333.82 62.12	138.14
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)					
22 66 53 00-0077	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	55.46 11.02	24.48
22 66 53 00-0078	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	67.97 14.54	32.34
22 66 53 00-0079	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	79.69 16.67	37.01
22 66 53 00-0080	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	108.27 22.04	48.97
22 66 53 00-0081	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	160.58 32.54	72.31
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)					
22 66 53 00-0083	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	53.11 11.02	24.48
22 66 53 00-0084	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	69.74 14.54	32.34
22 66 53 00-0085	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	82.95 16.67	37.01
22 66 53 00-0086	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	111.47 22.04	48.97
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)					
22 66 53 00-0088	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	50.19 11.02	24.48
22 66 53 00-0089	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	64.50 14.54	32.34
22 66 53 00-0090	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	75.02 16.67	37.01
22 66 53 00-0091	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	99.22 22.04	48.97
22 66 53 00-0092	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	145.89 32.54	72.31
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.					
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)					
22 66 53 00-0095	LF		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	135.16	10.13
22 66 53 00-0096	LF		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	190.78	12.64
22 66 53 00-0097	LF		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	260.49	14.58
22 66 53 00-0098	LF		6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	428.63	20.38
22 66 53 00-0099	LF		8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	759.37	27.30
22 66 53 00-0100	LF		10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	1,347.89	34.43
22 66 53 00-0101	LF		12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	2,408.80	46.38
22 66 53 00-0102	LF		15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	4,300.85	53.18
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)					
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)					
22 66 53 00-0105	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	524.28	86.33
22 66 53 00-0106	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	691.53	94.99
22 66 53 00-0107	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,137.21	113.66



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,704.11	134.62
				22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	3,947.55	219.40
22 66 53 00-0110				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)		
				22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	292.81	86.33
				22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	387.44	94.99
				22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	488.19	113.66
				22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,345.56	134.62
				22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,083.85	219.40
				22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	4,704.97	273.34
				22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	6,935.45	328.70
22 66 53 00-0118				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)		
				22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	292.81	86.33
				22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	387.44	94.99
				22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	488.19	113.66
				22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	973.40	134.62
				22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,602.76	219.40
				22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,820.63	273.34
				22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	5,438.39	328.70
22 66 53 00-0126				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)		
				22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	292.81	86.33
				22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	387.44	94.99
				22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	487.91	113.55
22 66 53 00-0130				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)		
				22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	410.81	86.33
				22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	745.99	94.99
				22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	833.12	113.66
22 66 53 00-0134				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)		
				22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	411.53	129.15
				22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	523.26	143.15
				22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	737.40	170.95
				22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,256.40	202.31
				22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,947.70	329.36
				22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	5,624.76	411.26
22 66 53 00-0141				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)		
				22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	385.34	123.79
				22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	453.46	132.91
				22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	510.34	137.57
				22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	586.32	151.92
				22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	629.90	156.71
				22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	695.72	161.38
				22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	875.93	175.06
				22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	977.26	179.56
				22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	1,098.55	187.83
22 66 53 00-0151				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)		
				22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	475.01	129.15
				22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	577.16	142.82
				22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	796.36	170.95
22 66 53 00-0155				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)		
				22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	448.85	123.79
				22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	565.77	138.26
				22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	685.01	157.17
				22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	737.29	161.83
22 66 53 00-0160				Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)		
				22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	407.23	129.38
				22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	573.19	143.15
				22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	737.20	170.83
				22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,264.32	201.56

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	4,972.92	329.03
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	421.62	123.79
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	453.40	132.91
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	479.78	138.37
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	536.39	151.92
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	557.54	156.93
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	678.28	161.83
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	925.43	175.27
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,108.88	179.56
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,157.55	187.83
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,898.77	265.44
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,134.29	274.22
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,849.65	288.25
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	493.10	129.15
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	590.77	142.82
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	887.13	170.95
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	1,382.71	201.77
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	403.46	123.79
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	471.56	132.91
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	524.92	138.26
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	568.16	151.92
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	662.32	157.17
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	755.38	161.72
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	984.36	175.27
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,240.59	179.67
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,362.24	188.15
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	248.96	81.32
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	273.92	85.87
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	308.00	90.43
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	508.88	100.22
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	533.88	104.89
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	576.90	112.31
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	757.68	120.89
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,104.45	164.57
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,175.30	178.50
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	675.04	189.85
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	911.04	189.85
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	932.22	189.85
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	1,033.52	250.46
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	792.05	86.33
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	959.30	94.99
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	1,168.98	113.66
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	3,510.47	134.62
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	379.04	86.33
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	482.75	94.99
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	669.73	113.66
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	863.72	134.62
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	1,706.76	187.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0220	Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0093)</small>	
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0221 LB	Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	7.77
22 66 53 00-0222 LB	Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	83.21
22 66 53 00-0223	Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>	
Note: ASTM A518.		
22 66 53 00-0224	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0223)</small>	
22 66 53 00-0225 LF	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	107.38
22 66 53 00-0226 LF	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	122.26
22 66 53 00-0227 LF	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	168.98
22 66 53 00-0228 LF	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	213.53
22 66 53 00-0229	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0223)</small>	
22 66 53 00-0230	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0229)</small>	
22 66 53 00-0231 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	385.71
22 66 53 00-0232 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	415.65
22 66 53 00-0233 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	575.92
22 66 53 00-0234 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	694.91
22 66 53 00-0235	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0236 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	208.70
22 66 53 00-0237 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	251.20
22 66 53 00-0238 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	326.69
22 66 53 00-0239 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	430.65
22 66 53 00-0240 EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	245.56
22 66 53 00-0241	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0242 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	208.70
22 66 53 00-0243 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	251.20
22 66 53 00-0244 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	326.69
22 66 53 00-0245 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	430.65
22 66 53 00-0246	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0247 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	249.55
22 66 53 00-0248 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	314.74
22 66 53 00-0249 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	494.62
22 66 53 00-0250 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	553.19
22 66 53 00-0251	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0252 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	240.47
22 66 53 00-0253 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	287.51
22 66 53 00-0254 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	453.77
22 66 53 00-0255 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	512.34
22 66 53 00-0256	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0257 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	363.36
22 66 53 00-0258	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0229)</small>	
22 66 53 00-0259 EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	290.74
22 66 53 00-0260 EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	362.44
22 66 53 00-0261 EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	484.42
22 66 53 00-0262 EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	745.09
22 66 53 00-0263	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0229)</small>	
22 66 53 00-0264 EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	338.51
22 66 53 00-0265 EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	418.12

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	446.45	110.13
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	477.13	121.52
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	527.74	124.93
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	574.26	128.69
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	291.20	91.34
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye	344.29	102.49
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	466.27	114.22
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	745.09	136.78
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	325.66	99.20
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	404.47	106.25
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	424.25	110.47
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	477.69	121.86
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	528.77	125.62
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	561.13	129.04
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	441.05	121.63
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	568.25	136.89
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	735.36	151.47
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	962.89	182.10
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	488.19	128.80
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	549.47	136.43
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	660.69	143.95
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	729.15	159.44
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	886.49	167.53
22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0229)</small>		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	495.44	121.63
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	586.13	136.66
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	854.67	152.27
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,203.73	182.33
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	533.50	128.80
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	708.27	136.43
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	746.84	143.95
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	797.17	159.33
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,026.31	166.85
22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	326.60	90.65
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	380.60	102.49
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	466.27	114.22
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	795.02	136.78
22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	361.29	98.74
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	404.91	106.60
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	442.40	110.47
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	609.31	121.86
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	624.08	125.62
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	701.82	129.04
22 66 53 00-0314 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0315 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	526.96	121.41
22 66 53 00-0316 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	667.73	136.55
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	976.39	151.81
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,172.54	182.68



		MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0319		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>			
22 66 53 00-0320	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend		574.35	128.80
22 66 53 00-0321	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend		694.63	136.32
22 66 53 00-0322	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend		724.15	143.95
22 66 53 00-0323	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend		806.24	159.33
22 66 53 00-0324	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend		1,026.31	166.85
22 66 53 00-0325		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0229)</small>			
22 66 53 00-0326	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		246.52	64.57
22 66 53 00-0327	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		279.45	68.33
22 66 53 00-0328	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		328.29	79.72
22 66 53 00-0329	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		394.94	75.74
22 66 53 00-0330	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		418.78	79.50
22 66 53 00-0331	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser		442.60	83.26
22 66 53 00-0332		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees <small>(22 66 53 00-0229)</small>			
22 66 53 00-0333	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee		229.49	53.19
22 66 53 00-0334	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee		267.18	60.13
22 66 53 00-0335	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee		315.35	68.10
22 66 53 00-0336	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee		587.28	82.91
22 66 53 00-0337		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs <small>(22 66 53 00-0229)</small>			
22 66 53 00-0338	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug		99.81	30.29
22 66 53 00-0339	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug		118.80	33.83
22 66 53 00-0340	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug		129.31	37.81
22 66 53 00-0341	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug		167.68	45.21
22 66 53 00-0342		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0229)</small>			
22 66 53 00-0343	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap		430.56	60.13
22 66 53 00-0344	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap		441.82	67.65
22 66 53 00-0345	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap		549.08	75.62
22 66 53 00-0346	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap		702.96	90.43
22 66 53 00-0347	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap		605.23	64.68
22 66 53 00-0348	EA	2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap		839.01	72.20
22 66 53 00-0349	EA	3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap		1,018.13	79.72
22 66 53 00-0350	EA	4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap		1,267.90	94.99
22 66 53 00-0351		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps <small>(22 66 53 00-0229)</small>			
22 66 53 00-0352	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap		815.47	68.68
22 66 53 00-0353	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap		1,298.46	75.96
22 66 53 00-0354	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap		851.37	68.33
22 66 53 00-0355	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap		1,298.46	75.96
22 66 53 00-0356		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps <small>(22 66 53 00-0229)</small>			
22 66 53 00-0357	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap		756.06	68.33
22 66 53 00-0358	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap		889.99	75.96
22 66 53 00-0359	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap		878.60	68.33
22 66 53 00-0360	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap		1,956.56	75.96
22 66 53 00-0361	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap		1,153.23	75.96
22 66 53 00-0362		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends <small>(22 66 53 00-0229)</small>			
22 66 53 00-0363	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend		304.42	60.82
22 66 53 00-0364	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend		402.04	68.33
22 66 53 00-0365		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters <small>(22 66 53 00-0229)</small>			
22 66 53 00-0366	EA	1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter		150.03	45.56
22 66 53 00-0367	EA	1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter		287.33	49.43

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0368	EA		2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	203.42	56.95
22 66 53 00-0369			Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter <small>(22 66 53 00-0229)</small>		
22 66 53 00-0370	EA		1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	287.83	64.81
22 66 53 00-0371	EA		1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	315.75	68.33
22 66 53 00-0372	EA		1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	353.22	72.09
22 66 53 00-0373	EA		1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	377.93	79.50
22 66 53 00-0374	EA		2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	353.27	72.20
22 66 53 00-0375	EA		2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	372.53	75.96
22 66 53 00-0376	EA		2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	401.75	83.26
22 66 53 00-0377	EA		3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	459.97	79.72
22 66 53 00-0378	EA		4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	568.99	94.99
22 66 53 00-0379			Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0380	EA		1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	108.93	
22 66 53 00-0381	EA		2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	127.08	
22 66 53 00-0382	EA		3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	136.16	
22 66 53 00-0383	EA		4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	149.77	
22 66 53 00-0384			Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0385	EA		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	794.43	30.41
22 66 53 00-0386	EA		Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	299.62	15.15
22 66 53 00-0387	EA		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow	562.86	15.15
22 66 53 00-0388			Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates <small>(22 66 53 00-0229)</small>		
22 66 53 00-0389	EA		Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer	2,832.92	151.92
22 66 53 00-0390	EA		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer	3,506.94	159.56
22 66 53 00-0391	EA		Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	2,391.90	15.15
22 66 53 00-0392			Chlorinated Polyvinyl Chloride (CPVC) Drain-Waste-Vent (DWV) Pipe And Fittings (ASTM F2618) <small>(22 66 53)</small>		
22 66 53 00-0393			Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe <small>(22 66 53 00-0392)</small>		
			Note: Excludes fittings or hangers.		
22 66 53 00-0394	LF		1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	18.62	4.78
22 66 53 00-0395	LF		2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	24.08	5.70
22 66 53 00-0396	LF		3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	40.33	8.20
22 66 53 00-0397	LF		4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	53.12	8.88
22 66 53 00-0398	LF		6" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	87.98	10.73
22 66 53 00-0399	LF		8" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	204.30	14.27
22 66 53 00-0400			Chlorinated Polyvinyl Chloride (CPVC) DWV Fittings <small>(22 66 53 00-0392)</small>		
22 66 53 00-0401			Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends <small>(22 66 53 00-0400)</small>		
22 66 53 00-0402	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	72.53	19.02
			Note: 0.125		
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 66 53 00-0403	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	91.17	24.26
			Note: 0.16		
			<i>For Work In Restricted Working Space, Add</i>	10.93	
22 66 53 00-0404	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	141.92	32.57
			Note: 0.215		
			<i>For Work In Restricted Working Space, Add</i>	14.69	
22 66 53 00-0405	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	204.82	37.92
			Note: 0.25		
			<i>For Work In Restricted Working Space, Add</i>	17.09	
22 66 53 00-0406	EA		6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	456.70	49.32
			Note: 0.325		
			<i>For Work In Restricted Working Space, Add</i>	22.21	
22 66 53 00-0407	EA		8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	633.03	66.39
			Note: 0.438		
			<i>For Work In Restricted Working Space, Add</i>	29.90	
22 66 53 00-0408			Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <small>(22 66 53 00-0400)</small>		
22 66 53 00-0409	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	74.05	19.02
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 66 53 00-0410	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	98.57	24.26
			<i>For Work In Restricted Working Space, Add</i>	10.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0411 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	155.28 14.69	32.57
22 66 53 00-0412 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	209.72 17.09	37.92
22 66 53 00-0413 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0414 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.76 8.54	19.02
22 66 53 00-0415 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	89.17 10.93	24.26
22 66 53 00-0416 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	145.75 14.69	32.57
22 66 53 00-0417 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	166.63 17.09	37.92
22 66 53 00-0418 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	394.37 22.21	49.32
22 66 53 00-0419 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	561.55 29.90	66.39
22 66 53 00-0420 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends (22 66 53 00-0400)		
22 66 53 00-0421 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	72.62 8.54	19.02
22 66 53 00-0422 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	89.10 10.93	24.26
22 66 53 00-0423 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	144.16 14.69	32.57
22 66 53 00-0424 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	179.07 17.09	37.92
22 66 53 00-0425 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	318.21 22.21	49.32
22 66 53 00-0426 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	351.43 29.90	66.39
22 66 53 00-0427 Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0428 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	434.66 22.04	48.97
22 66 53 00-0429 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	337.19 16.40	36.44
22 66 53 00-0430 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	204.36 12.81	28.47
22 66 53 00-0431 Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0432 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	97.44 12.81	28.47
22 66 53 00-0433 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	120.22 16.40	36.44
22 66 53 00-0434 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	204.66 22.04	48.97
22 66 53 00-0435 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	281.94 25.63	56.95
22 66 53 00-0436 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	766.08 33.31	73.91
22 66 53 00-0437 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,062.26 44.84	99.53
22 66 53 00-0438 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0439 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	112.12 14.01	31.09
22 66 53 00-0440 EA 2" x 1-1/2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	119.08 15.20	33.71
22 66 53 00-0441 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	116.11 15.20	33.71
22 66 53 00-0442 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	177.09 18.96	42.13
22 66 53 00-0443 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	189.62 20.16	44.76
22 66 53 00-0444 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	250.75 22.55	50.12
22 66 53 00-0445 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	264.88 24.43	54.21
22 66 53 00-0446 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	561.18 30.75	68.22
22 66 53 00-0447 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,324.27 38.44	85.30

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0448			Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees <small>(22 66 53 00-0400)</small>		
22 66 53 00-0449	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	139.41	37.92
			<i>For Work In Restricted Working Space, Add</i>	17.09	
22 66 53 00-0450	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	170.13	48.52
			<i>For Work In Restricted Working Space, Add</i>	21.87	
22 66 53 00-0451	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	227.99	65.26
			<i>For Work In Restricted Working Space, Add</i>	29.39	
22 66 53 00-0452	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	287.44	75.85
			<i>For Work In Restricted Working Space, Add</i>	34.17	
22 66 53 00-0453			Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Sanitary Tees <small>(22 66 53 00-0400)</small>		
22 66 53 00-0454	EA		2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee	173.54	43.27
			<i>For Work In Restricted Working Space, Add</i>	19.48	
22 66 53 00-0455	EA		3" x 3" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee	207.28	51.59
			<i>For Work In Restricted Working Space, Add</i>	23.24	
22 66 53 00-0456	EA		3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	268.18	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 66 53 00-0457	EA		4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	234.43	62.18
			<i>For Work In Restricted Working Space, Add</i>	28.02	
22 66 53 00-0458	EA		4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	261.64	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.78	
22 66 53 00-0459			Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers <small>(22 66 53 00-0400)</small>		
22 66 53 00-0460	EA		2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	99.80	21.64
			<i>For Work In Restricted Working Space, Add</i>	9.74	
22 66 53 00-0461	EA		3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	109.82	25.73
			<i>For Work In Restricted Working Space, Add</i>	11.62	
22 66 53 00-0462	EA		3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	184.93	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 66 53 00-0463	EA		4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	202.97	31.09
			<i>For Work In Restricted Working Space, Add</i>	14.01	
22 66 53 00-0464	EA		4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	223.47	35.30
			<i>For Work In Restricted Working Space, Add</i>	15.89	
22 66 53 00-0465	EA		6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	306.02	41.00
			<i>For Work In Restricted Working Space, Add</i>	18.45	
22 66 53 00-0466	EA		6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	353.83	43.62
			<i>For Work In Restricted Working Space, Add</i>	19.64	
22 66 53 00-0467			Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushings <small>(22 66 53 00-0400)</small>		
22 66 53 00-0468	EA		2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing	69.15	21.64
			<i>For Work In Restricted Working Space, Add</i>	9.74	
22 66 53 00-0469	EA		3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing	77.50	25.73
			<i>For Work In Restricted Working Space, Add</i>	11.62	
22 66 53 00-0470	EA		3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	85.00	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 66 53 00-0471	EA		4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	140.54	31.09
			<i>For Work In Restricted Working Space, Add</i>	14.01	
22 66 53 00-0472	EA		4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	148.98	35.30
			<i>For Work In Restricted Working Space, Add</i>	15.89	
22 66 53 00-0473	EA		6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	237.66	41.00
			<i>For Work In Restricted Working Space, Add</i>	18.45	
22 66 53 00-0474	EA		6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	233.48	43.62
			<i>For Work In Restricted Working Space, Add</i>	19.64	
22 66 53 00-0475	EA		8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	688.97	52.16
			<i>For Work In Restricted Working Space, Add</i>	23.51	
22 66 53 00-0476	EA		8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	723.92	57.85
			<i>For Work In Restricted Working Space, Add</i>	26.07	
22 66 53 00-0477			Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps <small>(22 66 53 00-0400)</small>		
22 66 53 00-0478	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	128.63	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 66 53 00-0479	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	174.54	36.44
			<i>For Work In Restricted Working Space, Add</i>	16.40	
22 66 53 00-0480	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	291.07	48.97
			<i>For Work In Restricted Working Space, Add</i>	22.04	
22 66 53 00-0481	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	472.21	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 66 53 00-0482			Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <small>(22 66 53 00-0400)</small>		
22 66 53 00-0483	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	98.50	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 66 53 00-0484	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	132.92	36.44
			<i>For Work In Restricted Working Space, Add</i>	16.40	
22 66 53 00-0485	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	212.96	48.97
			<i>For Work In Restricted Working Space, Add</i>	22.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0486 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	288.74 25.63	56.95
22 66 53 00-0487 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	627.19 33.31	73.91
22 66 53 00-0488 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	711.30 44.84	99.53
22 66 53 00-0489 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <small>(22 66 53 00-0400)</small>		
22 66 53 00-0490 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	107.68 14.01	31.09
22 66 53 00-0491 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	128.94 15.20	33.71
22 66 53 00-0492 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	183.32 18.96	42.13
22 66 53 00-0493 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	197.21 20.16	44.76
22 66 53 00-0494 EA 4" x 4" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	200.25 21.35	47.38
22 66 53 00-0495 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	262.30 22.55	50.12
22 66 53 00-0496 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	276.60 24.43	54.21
22 66 53 00-0497 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	437.67 30.75	68.22
22 66 53 00-0498 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	518.57 38.44	85.30
22 66 53 00-0499 EA 8" x 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	571.19 41.00	91.00
22 66 53 00-0500 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <small>(22 66 53 00-0400)</small>		
22 66 53 00-0501 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	161.63 17.09	37.92
22 66 53 00-0502 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	183.56 21.87	48.52
22 66 53 00-0503 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	298.01 29.39	65.26
22 66 53 00-0504 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	570.27 34.17	75.85
22 66 53 00-0505 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	941.70 44.42	98.62
22 66 53 00-0506 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Wyes <small>(22 66 53 00-0400)</small>		
22 66 53 00-0507 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	230.98 19.48	43.27
22 66 53 00-0508 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	289.75 25.63	56.95
22 66 53 00-0509 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	510.20 31.78	70.49
22 66 53 00-0510 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	762.72 39.29	87.24
22 66 53 00-0511 Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0400)</small>		
22 66 53 00-0512 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.55 12.81	28.47
22 66 53 00-0513 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	151.85 16.40	36.44
22 66 53 00-0514 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	228.62 22.04	48.97
22 66 53 00-0515 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	305.80 25.63	56.95
22 66 53 00-0516 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	706.70 33.31	73.91
22 66 53 00-0517 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,245.48 44.84	99.53
22 66 53 00-0518 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0400)</small>		
22 66 53 00-0519 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	107.28 14.01	31.09
22 66 53 00-0520 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	138.19 15.20	33.71
22 66 53 00-0521 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	192.28 18.96	42.13
22 66 53 00-0522 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	207.00 20.16	44.76

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0523	EA		4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends.....	268.76	50.12
			<i>For Work In Restricted Working Space, Add</i>	22.55	
22 66 53 00-0524	EA		4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends.....	284.55	54.21
			<i>For Work In Restricted Working Space, Add</i>	24.43	
22 66 53 00-0525	EA		6" x 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends.....	549.38	65.59
			<i>For Work In Restricted Working Space, Add</i>	29.55	
22 66 53 00-0526	EA		6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends.....	570.72	68.22
			<i>For Work In Restricted Working Space, Add</i>	30.75	
22 66 53 00-0527			Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0528	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	175.22	37.92
			<i>For Work In Restricted Working Space, Add</i>	17.09	
22 66 53 00-0529	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	265.03	48.52
			<i>For Work In Restricted Working Space, Add</i>	21.87	
22 66 53 00-0530	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	428.18	65.26
			<i>For Work In Restricted Working Space, Add</i>	29.39	
22 66 53 00-0531	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	739.66	75.85
			<i>For Work In Restricted Working Space, Add</i>	34.17	
22 66 53 00-0532	EA		6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	1,020.01	98.62
			<i>For Work In Restricted Working Space, Add</i>	44.42	
22 66 53 00-0533			Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0534	EA		2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	231.00	43.27
			<i>For Work In Restricted Working Space, Add</i>	19.48	
22 66 53 00-0535	EA		3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	362.26	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 66 53 00-0536	EA		4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	440.07	62.18
			<i>For Work In Restricted Working Space, Add</i>	28.02	
22 66 53 00-0537	EA		4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	452.60	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.78	
22 66 53 00-0538	EA		6" x 6" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	575.78	81.88
			<i>For Work In Restricted Working Space, Add</i>	36.90	
22 66 53 00-0539	EA		6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends.....	647.68	87.24
			<i>For Work In Restricted Working Space, Add</i>	39.29	
22 66 53 00-0540			Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees With Plug (22 66 53 00-0400)		
22 66 53 00-0541	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....	107.89	28.47
			<i>For Work In Restricted Working Space, Add</i>	12.81	
22 66 53 00-0542	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....	126.66	36.44
			<i>For Work In Restricted Working Space, Add</i>	16.40	
22 66 53 00-0543	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....	224.43	48.97
			<i>For Work In Restricted Working Space, Add</i>	22.04	
22 66 53 00-0544	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....	291.02	56.95
			<i>For Work In Restricted Working Space, Add</i>	25.63	
22 66 53 00-0545	EA		6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....	666.30	73.91
			<i>For Work In Restricted Working Space, Add</i>	33.31	
22 66 53 00-0546	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....	24.09	9.46
			<i>For Work In Restricted Working Space, Add</i>	4.27	
22 66 53 00-0547	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....	29.00	12.07
			<i>For Work In Restricted Working Space, Add</i>	5.47	
22 66 53 00-0548	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....	43.31	16.29
			<i>For Work In Restricted Working Space, Add</i>	7.34	
22 66 53 00-0549	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....	49.58	18.90
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 66 53 00-0550	EA		6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....	86.26	24.60
			<i>For Work In Restricted Working Space, Add</i>	11.10	
22 66 53 00-0551			Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug (22 66 53 00-0400)		
22 66 53 00-0552	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	56.97	19.02
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 66 53 00-0553	EA		2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	70.04	24.26
			<i>For Work In Restricted Working Space, Add</i>	10.93	
22 66 53 00-0554	EA		3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	110.97	32.57
			<i>For Work In Restricted Working Space, Add</i>	14.69	
22 66 53 00-0555	EA		4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	163.60	37.92
			<i>For Work In Restricted Working Space, Add</i>	17.09	
22 66 53 00-0556	EA		6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	258.52	49.32
			<i>For Work In Restricted Working Space, Add</i>	22.21	
22 66 53 00-0557	EA		8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug.....	466.92	66.39
			<i>For Work In Restricted Working Space, Add</i>	29.93	
22 66 53 00-0558			Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 66 53 00-0400)		
22 66 53 00-0559	EA		1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	62.89	19.02
			<i>For Work In Restricted Working Space, Add</i>	8.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0560 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	79.40 10.93	24.26
22 66 53 00-0561 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	103.94 14.69	32.57
22 66 53 00-0562 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	135.16 17.09	37.92
22 66 53 00-0563 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	198.00 22.21	49.32
22 66 53 00-0564 EA 8" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	434.09 29.93	66.39
22 66 53 00-0565 Chlorinated Polyvinyl Chloride (CPVC) Female Adapters <small>(22 66 53 00-0400)</small>		
22 66 53 00-0566 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	41.32	9.46
22 66 53 00-0567 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	55.10	12.19
22 66 53 00-0568 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	85.34	16.29
22 66 53 00-0569 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	145.46	19.02
22 66 53 00-0570 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	232.99	24.60
22 66 53 00-0571 Chlorinated Polyvinyl Chloride (CPVC) Male Adapters <small>(22 66 53 00-0400)</small>		
22 66 53 00-0572 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	46.66	9.46
22 66 53 00-0573 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	66.88	12.19
22 66 53 00-0574 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	77.76	16.29
22 66 53 00-0575 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	139.56	19.02
22 66 53 00-0576 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	186.96	24.60
22 66 53 00-0577 Chlorinated Polyvinyl Chloride (CPVC) Caps <small>(22 66 53 00-0400)</small>		
22 66 53 00-0578 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	41.00	9.46
22 66 53 00-0579 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	50.25	12.19
22 66 53 00-0580 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	79.83	16.29
22 66 53 00-0581 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	141.30	19.02
22 66 53 00-0582 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	180.00	24.60
22 66 53 00-0583 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	285.67	33.25

END OF SECTION 22

22 Plumbing

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 05 Common Work Results for HVAC ⁽²³⁾

23 05 23 General-Duty Valves For HVAC Piping ^(23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves.

23 05 23 00-0001	Gate Valves ^(23 05 23)		
23 05 23 00-0002	Class 125 Threaded, Bronze Gate Valves ^(23 05 23 00-0001)		
	Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0003	EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	67.99	12.37
	For 150 LB Rating, Add	3.20	
	For 200 LB Rating, Add	4.80	
	For 250 LB Rating, Add	8.00	
	For 300 LB Rating, Add	11.19	
	For Work In Restricted Working Space, Add	10.80	
23 05 23 00-0004	EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve	69.88	12.37
	For 150 LB Rating, Add	3.20	
	For 200 LB Rating, Add	4.80	
	For 250 LB Rating, Add	8.00	
	For 300 LB Rating, Add	11.19	
	For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0005	EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	71.86	12.37
	For 150 LB Rating, Add	3.20	
	For 200 LB Rating, Add	4.80	
	For 250 LB Rating, Add	8.00	
	For 300 LB Rating, Add	11.19	
	For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0006	EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve	91.93	13.60
	For 150 LB Rating, Add	3.82	
	For 200 LB Rating, Add	5.72	
	For 250 LB Rating, Add	9.54	
	For 300 LB Rating, Add	13.36	
	For Work In Restricted Working Space, Add	16.13	
23 05 23 00-0007	EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve	122.74	15.46
	For 150 LB Rating, Add	5.77	
	For 200 LB Rating, Add	8.65	
	For 250 LB Rating, Add	14.41	
	For 300 LB Rating, Add	20.18	
	For Work In Restricted Working Space, Add	19.53	
23 05 23 00-0008	EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	160.16	16.45
	For 150 LB Rating, Add	7.77	
	For 200 LB Rating, Add	11.66	
	For 250 LB Rating, Add	19.43	
	For 300 LB Rating, Add	27.21	
	For Work In Restricted Working Space, Add	24.73	
23 05 23 00-0009	EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	193.06	19.04
	For 150 LB Rating, Add	9.80	
	For 200 LB Rating, Add	14.69	
	For 250 LB Rating, Add	24.49	
	For 300 LB Rating, Add	34.28	
	For Work In Restricted Working Space, Add	28.53	
23 05 23 00-0010	EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve	246.24	22.51
	For 150 LB Rating, Add	13.38	
	For 200 LB Rating, Add	20.07	
	For 250 LB Rating, Add	33.46	
	For 300 LB Rating, Add	46.84	
	For Work In Restricted Working Space, Add	33.72	
23 05 23 00-0011	EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	533.53	30.41
	For Chain Operated Type, Add	171.76	
	For 150 LB Rating, Add	38.17	
	For 200 LB Rating, Add	57.25	
	For 250 LB Rating, Add	95.42	
	For 300 LB Rating, Add	133.59	
	For Work In Restricted Working Space, Add	45.56	
23 05 23 00-0012	EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	631.46	35.30
	For Chain Operated Type, Add	205.31	
	For 150 LB Rating, Add	45.63	
	For 200 LB Rating, Add	68.44	
	For 250 LB Rating, Add	114.06	
	For 300 LB Rating, Add	159.69	
	For Work In Restricted Working Space, Add	52.56	
23 05 23 00-0013	EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve	1,286.21	39.86
	For Chain Operated Type, Add	489.11	
	For 150 LB Rating, Add	108.69	
	For 200 LB Rating, Add	163.04	
	For 250 LB Rating, Add	271.73	
	For 300 LB Rating, Add	380.42	
	For Work In Restricted Working Space, Add	59.79	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 23 00-0014			Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small> Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0015	EA		1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	284.02	19.04
			For 150 LB Rating, Add	37.78	
			For 250 LB Rating, Add	66.12	
			For Chain Operated Type, Add	66.12	
			For Work In Restricted Working Space, Add	28.53	
23 05 23 00-0016	EA		2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	431.63	22.51
			For 150 LB Rating, Add	63.84	
			For 250 LB Rating, Add	111.73	
			For Chain Operated Type, Add	111.73	
			For Work In Restricted Working Space, Add	33.72	
23 05 23 00-0017	EA		2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	631.95	30.41
			For 150 LB Rating, Add	96.02	
			For 250 LB Rating, Add	168.04	
			For Chain Operated Type, Add	168.04	
			For Work In Restricted Working Space, Add	45.56	
23 05 23 00-0018	EA		3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	805.13	35.30
			For 150 LB Rating, Add	125.98	
			For 250 LB Rating, Add	220.47	
			For Chain Operated Type, Add	220.47	
			For Work In Restricted Working Space, Add	52.56	
23 05 23 00-0019	EA		4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,894.98	39.86
			For 150 LB Rating, Add	339.14	
			For 250 LB Rating, Add	593.49	
			For Chain Operated Type, Add	593.49	
			For Work In Restricted Working Space, Add	59.79	

23 05 23 00-0020			Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small> Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0021	EA		1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	618.86	129.84
			For 150 LB Rating, Add	132.29	
			For 250 LB Rating, Add	228.08	
			For 300 LB Rating, ASTM A182, Add	537.51	
			For Chain Operated Type, Add	228.08	
			For Work In Restricted Working Space, Add	48.81	
23 05 23 00-0022	EA		2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	683.17	164.83
			For 150 LB Rating, Add	138.35	
			For 250 LB Rating, Add	238.54	
			For 300 LB Rating, ASTM A182, Add	580.13	
			For Chain Operated Type, Add	238.54	
			For Work In Restricted Working Space, Add	61.83	
23 05 23 00-0023	EA		2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	779.47	165.14
			For 150 LB Rating, Add	166.00	
			For 250 LB Rating, Add	286.20	
			For 300 LB Rating, ASTM A182, Add	675.94	
			For Chain Operated Type, Add	286.20	
			For Work In Restricted Working Space, Add	62.12	
23 05 23 00-0024	EA		3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	957.77	193.61
			For 150 LB Rating, Add	207.48	
			For 250 LB Rating, Add	357.73	
			For 300 LB Rating, ASTM A182, Add	836.62	
			For Chain Operated Type, Add	357.73	
			For Work In Restricted Working Space, Add	72.69	
23 05 23 00-0025	EA		4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,360.74	324.58
			For 150 LB Rating, Add	276.66	
			For 250 LB Rating, Add	477.00	
			For 300 LB Rating, ASTM A182, Add	1,157.37	
			For Chain Operated Type, Add	477.00	
			For Work In Restricted Working Space, Add	122.02	
23 05 23 00-0026	EA		5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,673.86	347.54
			For 150 LB Rating, Add	359.63	
			For 250 LB Rating, Add	620.05	
			For 300 LB Rating, ASTM A182, Add	1,456.98	
			For Chain Operated Type, Add	620.05	
			For Work In Restricted Working Space, Add	130.13	
23 05 23 00-0027	EA		6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,010.53	386.16
			For 150 LB Rating, Add	442.57	
			For 250 LB Rating, Add	763.05	
			For 300 LB Rating, ASTM A182, Add	1,768.32	
			For Chain Operated Type, Add	763.05	
			For Work In Restricted Working Space, Add	145.33	
23 05 23 00-0028	EA		8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,140.94	493.43
			For 150 LB Rating, Add	733.12	
			For 250 LB Rating, Add	1,264.00	
			For 300 LB Rating, ASTM A182, Add	2,834.47	
			For Chain Operated Type, Add	1,264.00	
			For Work In Restricted Working Space, Add	183.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0029 EA 10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	4,089.48	600.70
For 150 LB Rating, Add	968.20	
For 250 LB Rating, Add	1,669.31	
For 300 LB Rating, ASTM A182, Add	3,714.05	
For Chain Operated Type, Add	1,669.31	
For Work In Restricted Working Space, Add	225.26	
23 05 23 00-0030 EA 12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	5,679.86	729.41
For 150 LB Rating, Add	1,383.22	
For 250 LB Rating, Add	2,384.86	
For 300 LB Rating, ASTM A182, Add	5,224.79	
For Chain Operated Type, Add	2,384.86	
For Work In Restricted Working Space, Add	273.05	
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	558.19	19.04
For 175 LB Rating, Add	231.54	
For 250 LB Rating, Add	347.31	
For Work In Restricted Working Space, Add	28.53	
23 05 23 00-0033 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	711.05	22.51
For 175 LB Rating, Add	299.32	
For 250 LB Rating, Add	448.98	
For Work In Restricted Working Space, Add	33.72	
23 05 23 00-0034 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	826.89	30.41
For 175 LB Rating, Add	337.52	
For 250 LB Rating, Add	506.28	
For Work In Restricted Working Space, Add	45.56	
23 05 23 00-0035 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	920.05	35.30
For 175 LB Rating, Add	372.42	
For 250 LB Rating, Add	558.63	
For Work In Restricted Working Space, Add	52.56	
23 05 23 00-0036 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,227.82	39.86
For 175 LB Rating, Add	514.26	
For 250 LB Rating, Add	771.39	
For Work In Restricted Working Space, Add	59.79	
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	820.29	129.84
For 150 LB Rating, Add	98.64	
For 175 LB Rating, Add	203.65	
For 250 LB Rating, Add	427.43	
For Chain Operated Type, Add	328.80	
For Work In Restricted Working Space, Add	48.81	
23 05 23 00-0039 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	883.22	164.83
For 150 LB Rating, Add	101.57	
For 175 LB Rating, Add	209.91	
For 250 LB Rating, Add	440.13	
For Chain Operated Type, Add	338.57	
For Work In Restricted Working Space, Add	61.83	
23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	906.30	165.14
For 150 LB Rating, Add	104.88	
For 175 LB Rating, Add	216.76	
For 250 LB Rating, Add	454.50	
For Chain Operated Type, Add	349.62	
For Work In Restricted Working Space, Add	62.12	
23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,011.65	193.61
For 150 LB Rating, Add	115.40	
For 175 LB Rating, Add	238.50	
For 250 LB Rating, Add	500.07	
For Chain Operated Type, Add	384.67	
For Work In Restricted Working Space, Add	72.69	
23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,339.75	324.58
For 150 LB Rating, Add	139.95	
For 175 LB Rating, Add	289.23	
For 250 LB Rating, Add	606.46	
For Chain Operated Type, Add	466.51	
For Work In Restricted Working Space, Add	122.02	
23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,735.52	347.54
For 150 LB Rating, Add	195.26	
For 175 LB Rating, Add	403.54	
For 250 LB Rating, Add	846.14	
For Chain Operated Type, Add	650.88	
For Work In Restricted Working Space, Add	130.13	
23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,971.08	386.16
For 150 LB Rating, Add	223.00	
For 175 LB Rating, Add	460.86	
For 250 LB Rating, Add	966.32	
For Chain Operated Type, Add	743.33	
For Work In Restricted Working Space, Add	145.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045	EA		8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....3,127.28	3,127.28	493.43
			<i>For 150 LB Rating, Add</i>	377.15	
			<i>For 175 LB Rating, Add</i>	779.44	
			<i>For 250 LB Rating, Add</i>	1,634.31	
			<i>For Chain Operated Type, Add</i>	1,257.17	
			<i>For Work In Restricted Working Space, Add</i>	183.89	
23 05 23 00-0046	EA		10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....4,620.40	4,620.40	600.70
			<i>For 150 LB Rating, Add</i>	580.43	
			<i>For 175 LB Rating, Add</i>	1,199.56	
			<i>For 250 LB Rating, Add</i>	2,515.20	
			<i>For Chain Operated Type, Add</i>	1,934.77	
			<i>For Work In Restricted Working Space, Add</i>	225.26	
23 05 23 00-0047	EA		12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....5,814.47	5,814.47	729.41
			<i>For 150 LB Rating, Add</i>	735.65	
			<i>For 175 LB Rating, Add</i>	1,520.34	
			<i>For 250 LB Rating, Add</i>	3,187.81	
			<i>For Chain Operated Type, Add</i>	2,452.16	
			<i>For Work In Restricted Working Space, Add</i>	273.05	

23 05 23 00-0048 Ball Valves (23 05 23)

23 05 23 00-0049 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0048)

Note: 125 LB WSP.

23 05 23 00-0050	EA		1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....54.22	54.22	12.37
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	6.45	
			<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0051	EA		3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....75.83	75.83	13.60
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	9.93	
			<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0052	EA		1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....94.87	94.87	15.46
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	19.53	
23 05 23 00-0053	EA		1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....132.43	132.43	16.45
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	22.50	
			<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0054	EA		1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....158.97	158.97	19.04
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	28.74	
			<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0055	EA		2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....192.40	192.40	22.51
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	36.00	
			<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0056	EA		2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....529.34	529.34	30.41
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	169.87	
			<i>For Work In Restricted Working Space, Add</i>	45.56	
23 05 23 00-0057	EA		3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....610.76	610.76	35.30
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	196.00	
			<i>For Work In Restricted Working Space, Add</i>	52.56	
23 05 23 00-0058	EA		4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....793.11	793.11	39.86
			<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
			<i>For Full Port, Add</i>	267.21	
			<i>For Work In Restricted Working Space, Add</i>	59.79	

23 05 23 00-0059 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)

23 05 23 00-0060	EA		1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....63.46	63.46	12.37
			<i>For Work In Restricted Working Space, Add</i>	10.80	
23 05 23 00-0061	EA		1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....69.68	69.68	12.37
			<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0062	EA		3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....96.87	96.87	13.60
			<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0063	EA		1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....123.04	123.04	15.46
			<i>For Work In Restricted Working Space, Add</i>	19.53	
23 05 23 00-0064	EA		1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....181.48	181.48	16.45
			<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0065	EA		1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....220.59	220.59	19.04
			<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0066	EA		2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....285.18	285.18	22.51
			<i>For Work In Restricted Working Space, Add</i>	33.72	

23 05 23 00-0067 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0068 EA 1-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	505.20	129.84
<i>For 150 LB Rating, Add</i>	99.33	
<i>For 250 LB Rating, Add</i>	171.25	
<i>For 300 LB Rating, ASTM A182, Add</i>	423.85	
<i>For Chain Operated Type, Add</i>	171.25	
<i>For Work In Restricted Working Space, Add</i>	48.81	
<i>For Work In Restricted Working Space, Add</i>	48.81	
23 05 23 00-0069 EA 2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	630.99	164.83
<i>For 150 LB Rating, Add</i>	123.22	
<i>For 250 LB Rating, Add</i>	212.45	
<i>For 300 LB Rating, ASTM A182, Add</i>	527.95	
<i>For Chain Operated Type, Add</i>	212.45	
<i>For Work In Restricted Working Space, Add</i>	61.83	
<i>For Work In Restricted Working Space, Add</i>	61.83	
23 05 23 00-0070 EA 2-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	983.25	165.14
<i>For 150 LB Rating, Add</i>	225.09	
<i>For 250 LB Rating, Add</i>	388.09	
<i>For 300 LB Rating, ASTM A182, Add</i>	879.72	
<i>For Chain Operated Type, Add</i>	388.09	
<i>For Work In Restricted Working Space, Add</i>	62.12	
<i>For Work In Restricted Working Space, Add</i>	62.12	
23 05 23 00-0071 EA 3" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	1,081.52	193.61
<i>For 150 LB Rating, Add</i>	243.37	
<i>For 250 LB Rating, Add</i>	419.61	
<i>For 300 LB Rating, ASTM A182, Add</i>	960.37	
<i>For Chain Operated Type, Add</i>	419.61	
<i>For Work In Restricted Working Space, Add</i>	72.69	
<i>For Work In Restricted Working Space, Add</i>	72.69	
23 05 23 00-0072 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	1,585.49	324.58
<i>For Work In Restricted Working Space, Add</i>	122.02	
23 05 23 00-0073 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	3,680.43	386.16
<i>For Work In Restricted Working Space, Add</i>	145.33	
23 05 23 00-0074 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	6,283.57	493.43
<i>For Work In Restricted Working Space, Add</i>	183.89	
23 05 23 00-0075 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves <small>(23 05 23 00-0048)</small>		
23 05 23 00-0076 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	51.27	12.37
<i>For True Union Socket Or Thread Type, Add</i>	6.65	
<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0077 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	66.88	13.60
<i>For True Union Socket Or Thread Type, Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0078 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	83.35	15.46
<i>For True Union Socket Or Thread Type, Add</i>	10.72	
<i>For Work In Restricted Working Space, Add</i>	19.53	
23 05 23 00-0079 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	106.41	16.45
<i>For True Union Socket Or Thread Type, Add</i>	13.92	
<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0080 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	136.84	19.04
<i>For True Union Socket Or Thread Type, Add</i>	21.69	
<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0081 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	165.59	22.51
<i>For True Union Socket Or Thread Type, Add</i>	27.17	
<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0082 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	266.27	30.41
<i>For True Union Socket Or Thread Type, Add</i>	53.74	
<i>For Work In Restricted Working Space, Add</i>	45.56	
23 05 23 00-0083 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	369.77	35.30
<i>For True Union Socket Or Thread Type, Add</i>	87.02	
<i>For Work In Restricted Working Space, Add</i>	52.56	
23 05 23 00-0084 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	571.30	39.86
<i>For True Union Socket Or Thread Type, Add</i>	159.26	
<i>For Work In Restricted Working Space, Add</i>	59.79	
23 05 23 00-0085 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0048)</small>		
23 05 23 00-0086 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	97.15	18.55
<i>For Full Port, Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	16.20	
23 05 23 00-0087 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	100.00	18.55
<i>For Full Port, Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	17.06	
23 05 23 00-0088 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	102.98	18.55
<i>For Full Port, Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	17.95	
23 05 23 00-0089 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	126.38	20.41
<i>For Full Port, Add</i>	20.58	
<i>For Work In Restricted Working Space, Add</i>	24.19	
23 05 23 00-0090 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	165.39	23.18
<i>For Full Port, Add</i>	30.49	
<i>For Work In Restricted Working Space, Add</i>	29.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0091	EA		1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	216.40	24.67
			<i>For Full Port, Add</i>	41.73	
			<i>For Work In Restricted Working Space, Add</i>	37.10	
23 05 23 00-0092	EA		1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	265.98	28.56
			<i>For Full Port, Add</i>	55.49	
			<i>For Work In Restricted Working Space, Add</i>	42.80	
23 05 23 00-0093	EA		2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	369.28	33.75
			<i>For Full Port, Add</i>	90.30	
			<i>For Work In Restricted Working Space, Add</i>	50.58	
23 05 23 00-0094	EA		2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	714.75	45.61
			<i>For Full Port, Add</i>	219.14	
			<i>For Work In Restricted Working Space, Add</i>	68.33	
23 05 23 00-0095	EA		3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	1,036.11	52.95
			<i>For Full Port, Add</i>	347.98	
			<i>For Work In Restricted Working Space, Add</i>	78.85	
23 05 23 00-0096			Wye Strainer, Union With Two Pressure Ports, Ball Valves <small>(23 05 23 00-0048)</small>		
23 05 23 00-0097	EA		1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	175.60	12.37
23 05 23 00-0098	EA		3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	225.41	16.07
23 05 23 00-0099	EA		1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	290.30	19.78
23 05 23 00-0100	EA		1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	395.87	27.20
23 05 23 00-0101	EA		1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	494.73	31.65
23 05 23 00-0102	EA		2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	652.32	37.10
23 05 23 00-0103			Plastic Ball Valves <small>(23 05 23 00-0048)</small>		
			Note: Threaded or socket.		
23 05 23 00-0104			Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves <small>(23 05 23 00-0103)</small>		
23 05 23 00-0105	EA		3/8" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	75.22	12.37
23 05 23 00-0106	EA		1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	78.55	12.37
23 05 23 00-0107	EA		3/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	99.62	13.60
23 05 23 00-0108	EA		1" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	129.38	15.46
23 05 23 00-0109	EA		1-1/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	154.17	16.45
23 05 23 00-0110	EA		1-1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	186.47	19.04
23 05 23 00-0111	EA		2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	226.95	22.51
23 05 23 00-0112			Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves <small>(23 05 23 00-0103)</small>		
23 05 23 00-0113	EA		3/8" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	111.72	12.37
23 05 23 00-0114	EA		1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	113.39	12.37
23 05 23 00-0115	EA		3/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	142.75	13.60
23 05 23 00-0116	EA		1" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	176.23	15.46
23 05 23 00-0117	EA		1-1/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	264.90	16.45
23 05 23 00-0118	EA		1-1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	294.17	19.04
23 05 23 00-0119	EA		2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	352.94	22.51
23 05 23 00-0120			Viton Liner And Seals, Polypropylene (PP) Ball Valves <small>(23 05 23 00-0103)</small>		
23 05 23 00-0121	EA		3/8" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	124.16	12.37
23 05 23 00-0122	EA		1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	134.12	12.37
23 05 23 00-0123	EA		3/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	154.36	13.60
23 05 23 00-0124	EA		1" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	189.50	15.46
23 05 23 00-0125	EA		1-1/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	238.36	16.45
23 05 23 00-0126	EA		1-1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	285.87	19.04
23 05 23 00-0127	EA		2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	369.52	22.51
23 05 23 00-0128			Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves <small>(23 05 23 00-0103)</small>		
23 05 23 00-0129	EA		3/8" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	246.91	12.37
23 05 23 00-0130	EA		1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	263.51	12.37
23 05 23 00-0131	EA		3/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	313.60	13.60
23 05 23 00-0132	EA		1" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	366.99	15.46
23 05 23 00-0133	EA		1-1/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	447.37	16.45
23 05 23 00-0134	EA		1-1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	493.22	19.04
23 05 23 00-0135	EA		2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	568.58	22.51
23 05 23 00-0136			Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves <small>(23 05 23 00-0103)</small>		
23 05 23 00-0137	EA		1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	52.26	12.37



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0138 EA	3/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	70.01	13.60
23 05 23 00-0139 EA	1" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	85.00	15.46
23 05 23 00-0140 EA	1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	117.60	16.45
23 05 23 00-0141 EA	1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	130.28	19.04
23 05 23 00-0142 EA	2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	158.77	22.51
23 05 23 00-0143	Plastic, True Union, Ball Valves <small>(23 05 23 00-0048)</small>		
23 05 23 00-0144	Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves <small>(23 05 23 00-0143)</small>		
	Note: Socket or NPT connectors.		
23 05 23 00-0145 EA	3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	120.84	12.37
23 05 23 00-0146 EA	1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	125.83	12.37
23 05 23 00-0147 EA	3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	152.70	13.60
23 05 23 00-0148 EA	1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	187.84	15.46
23 05 23 00-0149 EA	1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	226.75	16.45
23 05 23 00-0150 EA	1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	260.99	19.04
23 05 23 00-0151 EA	2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	319.76	22.51
23 05 23 00-0152	Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves <small>(23 05 23 00-0143)</small>		
	Note: Socket or NPT connectors.		
23 05 23 00-0153 EA	3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	122.50	12.37
23 05 23 00-0154 EA	1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	142.42	12.37
23 05 23 00-0155 EA	3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	154.36	13.60
23 05 23 00-0156 EA	1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	187.84	15.46
23 05 23 00-0157 EA	1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	223.43	16.45
23 05 23 00-0158 EA	1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	259.33	19.04
23 05 23 00-0159 EA	2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	319.76	22.51
23 05 23 00-0160	Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves <small>(23 05 23 00-0143)</small>		
	Note: Socket or NPT connectors.		
23 05 23 00-0161 EA	1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	67.77	12.37
23 05 23 00-0162 EA	3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	87.18	13.60
23 05 23 00-0163 EA	1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	104.90	15.46
23 05 23 00-0164 EA	1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	138.00	16.45
23 05 23 00-0165 EA	1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	161.46	19.04
23 05 23 00-0166 EA	2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	220.23	22.51
23 05 23 00-0167 EA	2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	307.78	30.41
23 05 23 00-0168 EA	3" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	387.54	35.30
23 05 23 00-0169 EA	4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	547.65	39.86
23 05 23 00-0170	Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves <small>(23 05 23 00-0143)</small>		
	Note: Socket or NPT connectors.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0171	EA		1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	79.38	12.37
23 05 23 00-0172	EA		3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	103.76	13.60
23 05 23 00-0173	EA		1" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	128.12	15.46
23 05 23 00-0174	EA		1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	178.64	16.45
23 05 23 00-0175	EA		1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	196.30	19.04
23 05 23 00-0176	EA		2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	251.75	22.51
23 05 23 00-0177	EA		2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	433.85	30.41
23 05 23 00-0178	EA		3" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	506.97	35.30
23 05 23 00-0179	EA		4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	779.88	39.86
23 05 23 00-0180			Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0143)		
23 05 23 00-0181			Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)		
23 05 23 00-0182	EA		1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	65.45	12.37
23 05 23 00-0183	EA		3/8" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	67.34	12.37
23 05 23 00-0184	EA		1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	69.01	12.37
23 05 23 00-0185	EA		3/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	88.17	13.60
23 05 23 00-0186	EA		1" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	108.01	15.46
23 05 23 00-0187	EA		1-1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	131.40	16.45
23 05 23 00-0188	EA		1-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	158.05	19.04
23 05 23 00-0189	EA		2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	201.99	22.51
23 05 23 00-0190	EA		2-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	373.30	30.41
23 05 23 00-0191	EA		3" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	415.74	35.30
23 05 23 00-0192	EA		4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	573.36	39.86
23 05 23 00-0193			Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)		
23 05 23 00-0194	EA		1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	65.45	12.37
23 05 23 00-0195	EA		3/8" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	67.34	12.37
23 05 23 00-0196	EA		1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	69.01	12.37
23 05 23 00-0197	EA		3/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	88.17	13.60
23 05 23 00-0198	EA		1" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	108.01	15.46
23 05 23 00-0199	EA		1-1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	131.40	16.45
23 05 23 00-0200	EA		1-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	158.05	19.04
23 05 23 00-0201	EA		2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	201.99	22.51
23 05 23 00-0202	EA		2-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	373.30	30.41
23 05 23 00-0203	EA		3" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	415.74	35.30
23 05 23 00-0204	EA		4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	573.36	39.86
23 05 23 00-0205			Three Piece Ball Valves (23 05 23 00-0048)		
23 05 23 00-0206			Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0207	EA		1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	102.10	12.37
			<i>For Work In Restricted Working Space, Add</i>	10.80	
23 05 23 00-0208	EA		3/8" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	103.99	12.37
			<i>For Work In Restricted Working Space, Add</i>	11.37	
23 05 23 00-0209	EA		1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	116.50	12.37
			<i>For Work In Restricted Working Space, Add</i>	11.97	
23 05 23 00-0210	EA		3/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	147.78	13.60
			<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0211	EA		1" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	188.55	15.46
			<i>For Work In Restricted Working Space, Add</i>	19.52	
23 05 23 00-0212	EA		1-1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	259.92	16.45
			<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0213	EA		1-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	324.88	19.04
			<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0214	EA		2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	528.72	22.51
			<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0215	EA		2-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	1,132.77	32.27
			<i>For Work In Restricted Working Space, Add</i>	49.45	
23 05 23 00-0216			Threaded, Carbon Steel Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0217	EA		1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve.....	118.05	12.37
			<i>For Work In Restricted Working Space, Add</i>	10.80	
23 05 23 00-0218	EA		3/8" Threaded, Carbon Steel Body, Three Piece Ball Valve.....	129.18	12.37
			<i>For Work In Restricted Working Space, Add</i>	11.37	
23 05 23 00-0219	EA		1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve.....	137.06	12.37
			<i>For Work In Restricted Working Space, Add</i>	11.97	
23 05 23 00-0220	EA		3/4" Threaded, Carbon Steel Body, Three Piece Ball Valve.....	218.07	13.60
			<i>For Work In Restricted Working Space, Add</i>	16.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0221 EA 1" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	278.38 19.52	15.46
23 05 23 00-0222 EA 1-1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	420.48 24.73	16.45
23 05 23 00-0223 EA 1-1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	534.39 28.53	19.04
23 05 23 00-0224 EA 2" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	694.23 33.72	22.51
23 05 23 00-0225 Threaded, Stainless Steel Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0226 EA 1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	301.28 10.80	12.37
23 05 23 00-0227 EA 3/8" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	322.93 11.37	12.37
23 05 23 00-0228 EA 1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	340.38 11.97	12.37
23 05 23 00-0229 EA 3/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	493.60 16.13	13.60
23 05 23 00-0230 EA 1" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	601.74 19.52	15.46
23 05 23 00-0231 EA 1-1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	703.10 24.73	16.45
23 05 23 00-0232 EA 1-1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	940.74 28.53	19.04
23 05 23 00-0233 EA 2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	1,223.77 33.72	22.51
23 05 23 00-0234 EA 3" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	3,212.30 57.07	38.33
23 05 23 00-0235 Globe Valves (23 05 23)		
23 05 23 00-0236 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0237 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.29 11.29 13.84 16.38 20.03 11.96	12.37
23 05 23 00-0238 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.42 11.29 13.84 16.38 20.03 10.80	12.37
23 05 23 00-0239 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.25 16.85 20.65 24.46 29.89 11.37	12.37
23 05 23 00-0240 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.23 16.85 20.65 24.46 29.89 75.74 11.96	12.37
23 05 23 00-0241 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.68 18.26 22.39 26.51 32.40 86.31 16.13	12.98
23 05 23 00-0242 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.71 24.68 30.26 35.83 43.79 113.62 19.53	12.98
23 05 23 00-0243 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.94 42.63 52.25 61.88 75.63 184.23 24.73	16.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0244	EA		1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	291.64	19.04
			<i>For 150 LB Rating, Add</i>	60.92	
			<i>For 200 LB Rating, Add</i>	74.68	
			<i>For 250 LB Rating, Add</i>	88.44	
			<i>For 300 LB Rating, Add</i>	108.09	
			<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	254.23	
			<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0245	EA		2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	343.45	22.51
			<i>For 150 LB Rating, Add</i>	71.62	
			<i>For 200 LB Rating, Add</i>	87.80	
			<i>For 250 LB Rating, Add</i>	103.97	
			<i>For 300 LB Rating, Add</i>	127.07	
			<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	299.11	
			<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0246	EA		2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	384.78	30.41
			<i>For 150 LB Rating, Add</i>	72.21	
			<i>For 200 LB Rating, Add</i>	88.51	
			<i>For 250 LB Rating, Add</i>	104.82	
			<i>For 300 LB Rating, Add</i>	128.11	
			<i>For Work In Restricted Working Space, Add</i>	45.56	
23 05 23 00-0247	EA		3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB.....	697.08	35.30
			<i>For 150 LB Rating, Add</i>	161.78	
			<i>For 200 LB Rating, Add</i>	198.31	
			<i>For 250 LB Rating, Add</i>	234.84	
			<i>For 300 LB Rating, Add</i>	287.03	
			<i>For Work In Restricted Working Space, Add</i>	52.56	
23 05 23 00-0248			Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0235)</small>		
23 05 23 00-0249	EA		2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	518.33	22.51
			<i>For 150 LB Rating, Add</i>	125.84	
			<i>For 200 LB Rating, Add</i>	154.25	
			<i>For 250 LB Rating, Add</i>	182.66	
			<i>For 300 LB Rating, Add</i>	223.26	
			<i>For Chain Operated Type, Add</i>	338.94	
			<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0250	EA		2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	643.87	30.41
			<i>For 150 LB Rating, Add</i>	152.53	
			<i>For 200 LB Rating, Add</i>	186.97	
			<i>For 250 LB Rating, Add</i>	221.41	
			<i>For 300 LB Rating, Add</i>	270.61	
			<i>For Chain Operated Type, Add</i>	410.84	
			<i>For Work In Restricted Working Space, Add</i>	45.56	
23 05 23 00-0251	EA		3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	765.63	35.30
			<i>For 150 LB Rating, Add</i>	183.03	
			<i>For 200 LB Rating, Add</i>	224.36	
			<i>For 250 LB Rating, Add</i>	265.69	
			<i>For 300 LB Rating, Add</i>	324.73	
			<i>For Chain Operated Type, Add</i>	493.00	
			<i>For Work In Restricted Working Space, Add</i>	52.56	
23 05 23 00-0252	EA		4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	986.47	39.86
			<i>For 150 LB Rating, Add</i>	244.04	
			<i>For 200 LB Rating, Add</i>	299.15	
			<i>For 250 LB Rating, Add</i>	354.25	
			<i>For 300 LB Rating, Add</i>	432.98	
			<i>For Chain Operated Type, Add</i>	657.34	
			<i>For Work In Restricted Working Space, Add</i>	59.77	
23 05 23 00-0253			Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0235)</small>		
23 05 23 00-0254	EA		2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	596.89	164.83
			<i>For 150 LB Rating, Add</i>	121.15	
			<i>For 250 LB Rating, Add</i>	175.86	
			<i>For Chain Operated Type, Add</i>	195.40	
			<i>For Work In Restricted Working Space, Add</i>	61.83	
23 05 23 00-0255	EA		2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	683.48	165.14
			<i>For 150 LB Rating, Add</i>	147.69	
			<i>For 250 LB Rating, Add</i>	214.38	
			<i>For Chain Operated Type, Add</i>	238.21	
			<i>For Work In Restricted Working Space, Add</i>	62.12	
23 05 23 00-0256	EA		3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	814.00	193.61
			<i>For 150 LB Rating, Add</i>	177.22	
			<i>For 250 LB Rating, Add</i>	257.26	
			<i>For Chain Operated Type, Add</i>	285.85	
			<i>For Work In Restricted Working Space, Add</i>	72.69	
23 05 23 00-0257	EA		4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,168.99	324.58
			<i>For 150 LB Rating, Add</i>	236.30	
			<i>For 250 LB Rating, Add</i>	343.01	
			<i>For Chain Operated Type, Add</i>	381.13	
			<i>For Work In Restricted Working Space, Add</i>	122.02	
23 05 23 00-0258	EA		5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,493.78	347.54
			<i>For 150 LB Rating, Add</i>	328.60	
			<i>For 250 LB Rating, Add</i>	477.00	
			<i>For Chain Operated Type, Add</i>	530.01	
			<i>For Work In Restricted Working Space, Add</i>	130.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0259 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,824.33	386.16
<i>For 150 LB Rating, Add</i>	415.37	
<i>For 250 LB Rating, Add</i>	602.96	
<i>For Chain Operated Type, Add</i>	669.95	
<i>For Work In Restricted Working Space, Add</i>	145.33	
23 05 23 00-0260 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,673.42	493.43
<i>For 150 LB Rating, Add</i>	638.75	
<i>For 250 LB Rating, Add</i>	927.21	
<i>For Chain Operated Type, Add</i>	1,030.24	
<i>For Work In Restricted Working Space, Add</i>	183.89	
23 05 23 00-0261 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	3,889.20	600.70
<i>For 150 LB Rating, Add</i>	972.89	
<i>For 250 LB Rating, Add</i>	1,412.25	
<i>For Chain Operated Type, Add</i>	1,569.17	
<i>For Work In Restricted Working Space, Add</i>	225.26	
23 05 23 00-0262 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	6,848.75	729.41
<i>For 150 LB Rating, Add</i>	1,840.97	
<i>For 250 LB Rating, Add</i>	2,672.37	
<i>For Chain Operated Type, Add</i>	2,969.30	
<i>For Work In Restricted Working Space, Add</i>	273.05	
23 05 23 00-0263 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0235)		
23 05 23 00-0264 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	67.46	12.37
<i>For 150 LB Rating, Add</i>	8.55	
<i>For 200 LB Rating, Add</i>	10.48	
<i>For 300 LB Rating, Add</i>	15.17	
<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0265 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	63.59	12.37
<i>For 150 LB Rating, Add</i>	8.55	
<i>For 200 LB Rating, Add</i>	10.48	
<i>For 300 LB Rating, Add</i>	15.17	
<i>For Work In Restricted Working Space, Add</i>	10.80	
23 05 23 00-0266 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	65.48	12.37
<i>For 150 LB Rating, Add</i>	8.55	
<i>For 200 LB Rating, Add</i>	10.48	
<i>For 300 LB Rating, Add</i>	15.17	
<i>For Work In Restricted Working Space, Add</i>	11.37	
23 05 23 00-0267 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	69.30	12.37
<i>For 150 LB Rating, Add</i>	9.12	
<i>For 200 LB Rating, Add</i>	11.18	
<i>For 300 LB Rating, Add</i>	16.18	
<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0268 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	94.56	12.98
<i>For 150 LB Rating, Add</i>	12.64	
<i>For 200 LB Rating, Add</i>	15.50	
<i>For 300 LB Rating, Add</i>	22.43	
<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0269 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	118.62	12.98
<i>For 150 LB Rating, Add</i>	16.59	
<i>For 200 LB Rating, Add</i>	20.34	
<i>For 300 LB Rating, Add</i>	29.44	
<i>For Work In Restricted Working Space, Add</i>	19.53	
23 05 23 00-0270 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	161.95	16.45
<i>For 150 LB Rating, Add</i>	24.65	
<i>For 200 LB Rating, Add</i>	30.22	
<i>For 300 LB Rating, Add</i>	43.74	
<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0271 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	187.82	19.04
<i>For 150 LB Rating, Add</i>	28.74	
<i>For 200 LB Rating, Add</i>	35.23	
<i>For 300 LB Rating, Add</i>	50.99	
<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0272 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	252.05	22.51
<i>For 150 LB Rating, Add</i>	43.29	
<i>For 200 LB Rating, Add</i>	53.06	
<i>For 300 LB Rating, Add</i>	76.80	
<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0273 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	416.76	33.02
<i>For 150 LB Rating, Add</i>	78.09	
<i>For 200 LB Rating, Add</i>	95.72	
<i>For 300 LB Rating, Add</i>	138.54	
<i>For Work In Restricted Working Space, Add</i>	49.46	
23 05 23 00-0274 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	616.82	38.33
<i>For 150 LB Rating, Add</i>	132.24	
<i>For 200 LB Rating, Add</i>	162.10	
<i>For 300 LB Rating, Add</i>	234.62	
<i>For Work In Restricted Working Space, Add</i>	57.07	
23 05 23 00-0275 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0235)		
23 05 23 00-0276 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,211.56	164.83
<i>For 250 LB Rating, Add</i>	603.28	
<i>For Chain Operated Type, Add</i>	392.13	
<i>For Work In Restricted Working Space, Add</i>	61.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0277	EA		2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,396.21	165.14
			<i>For 250 LB Rating, Add</i>	713.48	
			<i>For Chain Operated Type, Add</i>	463.76	
			<i>For Work In Restricted Working Space, Add</i>	62.12	
23 05 23 00-0278	EA		3" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,643.62	193.61
			<i>For 250 LB Rating, Add</i>	840.79	
			<i>For Chain Operated Type, Add</i>	546.51	
			<i>For Work In Restricted Working Space, Add</i>	72.69	
23 05 23 00-0279	EA		4" Flanged, 125 LB, Iron Body, Angle Globe Valve	2,408.22	324.58
			<i>For 250 LB Rating, Add</i>	1,200.89	
			<i>For Chain Operated Type, Add</i>	780.58	
			<i>For Work In Restricted Working Space, Add</i>	122.02	
23 05 23 00-0280	EA		5" Flanged, 125 LB, Iron Body, Angle Globe Valve	4,020.79	347.54
			<i>For 250 LB Rating, Add</i>	2,152.21	
			<i>For Chain Operated Type, Add</i>	1,398.94	
			<i>For Work In Restricted Working Space, Add</i>	130.13	
23 05 23 00-0281	EA		6" Flanged, 125 LB, Iron Body, Angle Globe Valve	4,071.45	386.16
			<i>For 250 LB Rating, Add</i>	2,152.21	
			<i>For Chain Operated Type, Add</i>	1,398.94	
			<i>For Work In Restricted Working Space, Add</i>	145.33	
23 05 23 00-0282	EA		8" Flanged, 125 LB, Iron Body, Angle Globe Valve	7,633.47	493.43
			<i>For 250 LB Rating, Add</i>	4,212.31	
			<i>For Chain Operated Type, Add</i>	2,738.00	
			<i>For Work In Restricted Working Space, Add</i>	183.89	
23 05 23 00-0283			Plug Valves <small>(23 05 23)</small>		
23 05 23 00-0284			Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated <small>(23 05 23 00-0283)</small>		
			Note: Includes wrench.		
23 05 23 00-0285	EA		1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	297.92	12.37
23 05 23 00-0286	EA		3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	311.81	13.60
23 05 23 00-0287	EA		1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	394.22	15.46
23 05 23 00-0288	EA		1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	472.12	16.45
23 05 23 00-0289	EA		1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	519.03	19.04
23 05 23 00-0290	EA		2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	612.68	22.51
23 05 23 00-0291	EA		2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	918.06	30.41
23 05 23 00-0292	EA		3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,123.10	35.30
23 05 23 00-0293			Plug Valves, Lubricated, Semisteel Flanged <small>(23 05 23 00-0283)</small>		
			Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0294	EA		2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	623.42	164.83
23 05 23 00-0295	EA		2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	756.79	165.14
23 05 23 00-0296	EA		3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	933.06	193.61
23 05 23 00-0297	EA		4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,342.13	324.58
23 05 23 00-0298	EA		6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	2,979.76	386.16
23 05 23 00-0299	EA		8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	5,108.58	493.43
23 05 23 00-0300	EA		10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	8,242.62	600.70
23 05 23 00-0301	EA		12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	12,281.62	729.41
23 05 23 00-0302			Plug Valves, Forged Steel, Screwed <small>(23 05 23 00-0283)</small>		
23 05 23 00-0303	EA		1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,143.60	12.37
23 05 23 00-0304	EA		3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,351.41	13.60
23 05 23 00-0305	EA		1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,527.93	15.46
23 05 23 00-0306	EA		1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,833.37	16.45
23 05 23 00-0307	EA		1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,134.95	19.04
23 05 23 00-0308	EA		2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,808.25	22.51
23 05 23 00-0309			Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0283)</small>		
23 05 23 00-0310	EA		4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,195.12	324.58
23 05 23 00-0311	EA		6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,836.30	386.16
23 05 23 00-0312	EA		8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,497.31	493.43
23 05 23 00-0313	EA		10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,539.91	600.70
23 05 23 00-0314	EA		12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	4,570.27	729.41
23 05 23 00-0315			Eccentric Valves With Taps <small>(23 05 23)</small>		
23 05 23 00-0316			Screwed Eccentric Valves With Taps <small>(23 05 23 00-0315)</small>		
23 05 23 00-0317	EA		1/2" Diameter Eccentric Valves With Taps, Screwed.....	536.05	12.37
23 05 23 00-0318	EA		3/4" Diameter Eccentric Valves With Taps, Screwed.....	557.57	13.60
23 05 23 00-0319	EA		1" Diameter Eccentric Valves With Taps, Screwed.....	706.29	15.46
23 05 23 00-0320	EA		1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	853.40	16.45
23 05 23 00-0321	EA		1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	927.15	19.04
23 05 23 00-0322	EA		2" Diameter Eccentric Valves With Taps, Screwed.....	1,089.48	22.51
23 05 23 00-0323	EA		2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	1,663.26	30.41
23 05 23 00-0324	EA		3" Diameter Eccentric Valves With Taps, Screwed.....	2,030.12	35.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0325 Flanged Eccentric Valves With Taps <small>(23 05 23 00-0315)</small>		
23 05 23 00-0326 EA 2-1/2" Diameter Eccentric Valves With Taps, Flanged	2,000.91	165.14
23 05 23 00-0327 EA 3" Diameter Eccentric Valves With Taps, Flanged.....	2,379.65	193.61
23 05 23 00-0328 EA 4" Diameter Eccentric Valves With Taps, Flanged.....	3,116.58	324.58
23 05 23 00-0329 EA 5" Diameter Eccentric Valves With Taps, Flanged.....	4,250.45	347.54
23 05 23 00-0330 EA 6" Diameter Eccentric Valves With Taps, Flanged.....	5,446.11	386.16
23 05 23 00-0331 EA 8" Diameter Eccentric Valves With Taps, Flanged.....	9,582.15	493.43
23 05 23 00-0332 EA 10" Diameter Eccentric Valves With Taps, Flanged.....	13,536.74	600.70
23 05 23 00-0333 EA 12" Diameter Eccentric Valves With Taps, Flanged.....	23,619.40	729.41
23 05 23 00-0334 Check Valves <small>(23 05 23)</small>		
23 05 23 00-0335 Iron Body Wafer Type Check Valve <small>(23 05 23 00-0334)</small>		
23 05 23 00-0336 Single Disk Type <small>(23 05 23 00-0335)</small>		
23 05 23 00-0337 EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	489.71	164.93
For 150 LB Rating, Add	59.54	
For 200 LB Rating, Add	70.88	
For 300 LB Rating, Add	85.05	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	168.82	
23 05 23 00-0338 EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	578.67	165.26
For 150 LB Rating, Add	78.00	
For 200 LB Rating, Add	92.86	
For 300 LB Rating, Add	111.43	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	208.59	
23 05 23 00-0339 EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	712.00	193.76
For 150 LB Rating, Add	98.60	
For 200 LB Rating, Add	117.38	
For 300 LB Rating, Add	140.85	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	259.78	
23 05 23 00-0340 EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	1,042.95	324.83
For 150 LB Rating, Add	133.54	
For 200 LB Rating, Add	158.98	
For 300 LB Rating, Add	190.77	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	367.57	
23 05 23 00-0341 EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	1,565.91	455.89
For 150 LB Rating, Add	209.17	
For 200 LB Rating, Add	249.01	
For 300 LB Rating, Add	298.81	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	562.19	
23 05 23 00-0342 EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	2,181.52	524.28
For 150 LB Rating, Add	320.99	
For 200 LB Rating, Add	382.14	
For 300 LB Rating, Add	458.56	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	818.44	
23 05 23 00-0343 EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	3,245.04	638.26
For 150 LB Rating, Add	512.69	
For 200 LB Rating, Add	610.35	
For 300 LB Rating, Add	732.41	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,259.35	
23 05 23 00-0344 Twin Disc Type <small>(23 05 23 00-0335)</small>		
23 05 23 00-0345 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	663.10	164.93
For 150 LB Rating, Add	95.95	
For 200 LB Rating, Add	114.22	
For 300 LB Rating, Add	137.07	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	246.84	
23 05 23 00-0346 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	755.55	165.26
For 150 LB Rating, Add	115.15	
For 200 LB Rating, Add	137.08	
For 300 LB Rating, Add	164.50	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	288.19	
23 05 23 00-0347 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	882.26	193.76
For 150 LB Rating, Add	134.35	
For 200 LB Rating, Add	159.94	
For 300 LB Rating, Add	191.93	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	336.39	
23 05 23 00-0348 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,219.50	324.83
For 150 LB Rating, Add	170.61	
For 200 LB Rating, Add	203.11	
For 300 LB Rating, Add	243.74	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	447.01	
23 05 23 00-0349 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,879.97	455.89
For 150 LB Rating, Add	275.12	
For 200 LB Rating, Add	327.53	
For 300 LB Rating, Add	393.03	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	703.52	
23 05 23 00-0350 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,652.03	524.28
For 150 LB Rating, Add	420.16	
For 200 LB Rating, Add	500.19	
For 300 LB Rating, Add	600.23	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,030.59	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0351	EA		10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,966.72	626.86
			<i>For 150 LB Rating, Add</i>	665.40	
			<i>For 200 LB Rating, Add</i>	792.15	
			<i>For 300 LB Rating, Add</i>	950.57	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,585.49	
23 05 23 00-0352	EA		12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	5,211.09	775.02
			<i>For 150 LB Rating, Add</i>	891.49	
			<i>For 200 LB Rating, Add</i>	1,061.30	
			<i>For 300 LB Rating, Add</i>	1,273.56	
			<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,103.52	
23 05 23 00-0353 Lift Check Valves (23 05 23 00-0334)					
23 05 23 00-0354 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0353)					
Note: Watts #600 series.					
23 05 23 00-0355	EA		3/8" Lift Check Valve, Bronze, Threaded.....	123.36	12.37
23 05 23 00-0356	EA		1/2" Lift Check Valve, Bronze, Threaded.....	130.51	12.37
23 05 23 00-0357	EA		3/4" Lift Check Valve, Bronze, Threaded.....	166.65	12.98
23 05 23 00-0358	EA		1" Lift Check Valve, Bronze, Threaded.....	219.14	12.98
23 05 23 00-0359	EA		1-1/4" Lift Check Valve, Bronze, Threaded.....	303.24	16.45
23 05 23 00-0360	EA		1-1/2" Lift Check Valve, Bronze, Threaded.....	368.52	19.04
23 05 23 00-0361	EA		2" Lift Check Valve, Bronze, Threaded.....	523.50	22.51
23 05 23 00-0362 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0353)					
Note: Crane 366E.					
23 05 23 00-0363	EA		1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	749.74	12.37
23 05 23 00-0364	EA		3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	911.12	12.98
23 05 23 00-0365	EA		1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,632.34	12.98
23 05 23 00-0366	EA		1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,175.16	16.45
23 05 23 00-0367	EA		1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,363.02	19.04
23 05 23 00-0368	EA		2" Lift Check Valve, Bronze, Threaded, 300 LB.....	3,034.82	22.51
23 05 23 00-0369 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0353)					
Note: Mueller 105MAP.					
23 05 23 00-0370	EA		2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,105.95	164.83
23 05 23 00-0371	EA		2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,651.20	165.14
23 05 23 00-0372	EA		3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,799.41	193.61
23 05 23 00-0373	EA		4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,499.25	324.58
23 05 23 00-0374	EA		5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	3,125.55	347.54
23 05 23 00-0375	EA		6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	3,856.52	386.16
23 05 23 00-0376	EA		8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	6,784.88	493.43
23 05 23 00-0377	EA		10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,521.64	600.70
23 05 23 00-0378	EA		12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	13,838.53	729.41
23 05 23 00-0379 Bronze Body Swing Check Valves (23 05 23 00-0334)					
23 05 23 00-0380 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0379)					
23 05 23 00-0381	EA		1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	84.75	12.37
			<i>For 300 LB Rating, Add</i>	17.50	
			<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0382	EA		1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	80.88	12.37
			<i>For 300 LB Rating, Add</i>	17.50	
			<i>For Work In Restricted Working Space, Add</i>	10.80	
23 05 23 00-0383	EA		3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	82.77	12.37
			<i>For 300 LB Rating, Add</i>	17.50	
			<i>For Work In Restricted Working Space, Add</i>	11.37	
23 05 23 00-0384	EA		1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	86.50	12.37
			<i>For 300 LB Rating, Add</i>	18.18	
			<i>For Work In Restricted Working Space, Add</i>	11.96	
23 05 23 00-0385	EA		3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	110.26	12.98
			<i>For 300 LB Rating, Add</i>	22.03	
			<i>For Work In Restricted Working Space, Add</i>	16.13	
23 05 23 00-0386	EA		1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	141.80	12.98
			<i>For 300 LB Rating, Add</i>	29.92	
			<i>For Work In Restricted Working Space, Add</i>	19.53	
23 05 23 00-0387	EA		1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	190.10	16.45
			<i>For 300 LB Rating, Add</i>	41.99	
			<i>For Work In Restricted Working Space, Add</i>	24.73	
23 05 23 00-0388	EA		1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	245.89	19.04
			<i>For 300 LB Rating, Add</i>	58.80	
			<i>For Work In Restricted Working Space, Add</i>	28.53	
23 05 23 00-0389	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	306.27	22.51
			<i>For 300 LB Rating, Add</i>	75.61	
			<i>For Work In Restricted Working Space, Add</i>	33.72	
23 05 23 00-0390	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	597.50	30.41
			<i>For 300 LB Rating, Add</i>	173.80	
			<i>For Work In Restricted Working Space, Add</i>	45.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0391 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	809.03 247.19 52.56	35.30
23 05 23 00-0392 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	916.54 279.72 59.79	39.86
23 05 23 00-0393 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <small>(23 05 23 00-0334)</small>		
23 05 23 00-0394 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	528.36 279.96 535.22 35.00	92.74
23 05 23 00-0395 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	587.98 308.43 589.65 40.32	108.20
23 05 23 00-0396 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	654.66 334.53 639.55 48.81	129.84
23 05 23 00-0397 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	817.10 415.49 794.31 61.83	164.83
23 05 23 00-0398 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	920.15 484.89 927.00 62.12	165.14
23 05 23 00-0399 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,017.22 526.94 1,007.38 72.69	193.61
23 05 23 00-0400 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,604.31 814.35 1,556.84 122.02	324.58
23 05 23 00-0401 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,192.04 1,195.62 2,285.75 130.13	347.54
23 05 23 00-0402 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,523.06 1,386.27 2,650.22 145.33	386.16
23 05 23 00-0403 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,702.66 3,461.00 6,616.62 183.89	493.43
23 05 23 00-0404 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,679.04 4,711.16 9,006.63 225.26	600.70
23 05 23 00-0405 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,714.32 7,346.84 14,045.42 273.05	729.41
23 05 23 00-0406 Plastic Check Valve <small>(23 05 23 00-0334)</small>		
23 05 23 00-0407 Polyvinyl Chloride (PVC) Check Valve <small>(23 05 23 00-0406)</small>		
23 05 23 00-0408 Polyvinyl Chloride (PVC) "Y" Check Valve <small>(23 05 23 00-0407)</small>		
23 05 23 00-0409 EA 1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	97.90	12.37
23 05 23 00-0410 EA 3/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	116.07	13.60
23 05 23 00-0411 EA 1" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	133.47	15.46
23 05 23 00-0412 EA 1-1/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	189.92	16.45
23 05 23 00-0413 EA 1-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	211.56	19.04
23 05 23 00-0414 EA 2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	352.38	20.72
23 05 23 00-0415 EA 2-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	439.49	30.41
23 05 23 00-0416 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	481.76	35.30
23 05 23 00-0417 EA 4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	700.92	39.86
23 05 23 00-0418 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Flanged	672.27	193.61
23 05 23 00-0419 Polyvinyl Chloride (PVC) True Union Ball Check Valve <small>(23 05 23 00-0407)</small>		
23 05 23 00-0420 Valves <small>(23 05 23 00-0419)</small>		
23 05 23 00-0421 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	74.71	12.37
23 05 23 00-0422 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	93.58	13.60
23 05 23 00-0423 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	114.85	15.46
23 05 23 00-0424 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve	148.78	16.45
23 05 23 00-0425 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve	174.73	19.04
23 05 23 00-0426 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	256.73	22.51

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 05 23 00-0427	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		418.92	30.41
23 05 23 00-0428	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		711.00	35.30
23 05 23 00-0429		Foot Valve Screen (23 05 23 00-0419)			
		Note: For use with PVC true union ball check valves above.			
23 05 23 00-0430	EA	1/2" Foot Valve Screen Option.....		59.16	
23 05 23 00-0431	EA	3/4" Foot Valve Screen Option.....		70.74	
23 05 23 00-0432	EA	1" Foot Valve Screen Option.....		81.97	
23 05 23 00-0433	EA	1-1/4" Foot Valve Screen Option		123.75	
23 05 23 00-0434	EA	1-1/2" Foot Valve Screen Option		136.92	
23 05 23 00-0435	EA	2" Foot Valve Screen Option.....		148.15	
23 05 23 00-0436	EA	2-1/2" Foot Valve Screen Option		176.76	
23 05 23 00-0437	EA	3" Foot Valve Screen Option.....		205.38	
23 05 23 00-0438	EA	4" Foot Valve Screen Option.....		249.26	
23 05 23 00-0439		Hayward "True Check" With VITON Seals (23 05 23 00-0419)			
23 05 23 00-0440	EA	1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		67.53	12.37
23 05 23 00-0441	EA	3/8" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		69.42	12.37
23 05 23 00-0442	EA	1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		75.54	12.37
23 05 23 00-0443	EA	3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		93.50	13.60
23 05 23 00-0444	EA	1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		116.02	15.46
23 05 23 00-0445	EA	1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded		148.70	16.45
23 05 23 00-0446	EA	1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded		179.71	19.04
23 05 23 00-0447	EA	2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		225.21	22.51
23 05 23 00-0448	EA	2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		413.94	30.41
23 05 23 00-0449	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		453.89	35.30
23 05 23 00-0450	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		714.36	39.86
23 05 23 00-0451		Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0419)			
23 05 23 00-0452	EA	1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		71.40	12.37
23 05 23 00-0453	EA	3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		89.43	13.60
23 05 23 00-0454	EA	1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		110.38	15.46
23 05 23 00-0455	EA	1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		142.56	16.45
23 05 23 00-0456	EA	1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded		168.43	19.04
23 05 23 00-0457	EA	2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		215.26	22.51
23 05 23 00-0458	EA	2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded		399.01	30.41
23 05 23 00-0459	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		441.45	35.30
23 05 23 00-0460	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....		695.28	39.86
23 05 23 00-0461		Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged (23 05 23 00-0407)			
23 05 23 00-0462	EA	1" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		350.66	74.19
23 05 23 00-0463	EA	1-1/4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		382.21	86.56
23 05 23 00-0464	EA	1-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		420.43	108.20
23 05 23 00-0465	EA	2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		512.84	136.02
23 05 23 00-0466	EA	2-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		616.83	136.77
23 05 23 00-0467	EA	3" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		841.31	159.56
23 05 23 00-0468	EA	4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		1,164.87	270.69
23 05 23 00-0469	EA	6" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing		1,914.73	455.89
23 05 23 00-0470		Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0406)			
23 05 23 00-0471	EA	1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		86.47	12.37
		For Work In Restricted Working Space, Add		11.96	
23 05 23 00-0472	EA	3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		100.36	13.60
		For Work In Restricted Working Space, Add		16.13	
23 05 23 00-0473	EA	1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		113.51	15.46
		For Work In Restricted Working Space, Add		19.53	
23 05 23 00-0474	EA	1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		132.86	16.45
		For Work In Restricted Working Space, Add		24.73	
23 05 23 00-0475	EA	1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		148.46	19.04
		For Work In Restricted Working Space, Add		28.53	
23 05 23 00-0476	EA	2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		195.35	22.51
		For Work In Restricted Working Space, Add		33.72	
23 05 23 00-0477	EA	2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....		269.93	30.41
		For Work In Restricted Working Space, Add		45.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0478 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	328.44 52.56	35.30
23 05 23 00-0479 Polyvinyl Chloride (PVC) Body, Swing Check Valves <small>(23 05 23 00-0406)</small>		
23 05 23 00-0480 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals <small>(23 05 23 00-0479)</small>		
23 05 23 00-0481 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	666.18 61.01	159.44
23 05 23 00-0482 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	852.51 100.49	270.48
23 05 23 00-0483 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	1,352.37 132.51	321.80
23 05 23 00-0484 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	1,802.41 150.17	407.61
23 05 23 00-0485 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals <small>(23 05 23 00-0479)</small>		
23 05 23 00-0486 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	785.61 61.01	159.44
23 05 23 00-0487 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	1,116.25 100.49	270.48
23 05 23 00-0488 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	1,602.19 132.51	321.80
23 05 23 00-0489 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	2,100.99 150.17	407.61
23 05 23 00-0490 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights <small>(23 05 23 00-0479)</small>		
23 05 23 00-0491 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	817.13 61.01	159.44
23 05 23 00-0492 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,118.74 100.49	270.48
23 05 23 00-0493 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,491.71 132.51	321.80
23 05 23 00-0494 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,917.20 150.17	407.61
23 05 23 00-0495 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights <small>(23 05 23 00-0479)</small>		
23 05 23 00-0496 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	916.65 61.01	159.44
23 05 23 00-0497 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,263.89 100.49	270.48
23 05 23 00-0498 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,699.06 132.51	321.80
23 05 23 00-0499 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	2,166.02 150.17	407.61
23 05 23 00-0500 Butterfly Valves <small>(23 05 23)</small>		
23 05 23 00-0501 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0500)</small> Note: With on-off handle		
23 05 23 00-0502 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	443.71 114.06 61.83	164.83
23 05 23 00-0503 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	458.50 120.69 62.12	165.14
23 05 23 00-0504 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	513.08 129.97 72.69	193.61
23 05 23 00-0505 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	746.59 163.13 122.02	324.58
23 05 23 00-0506 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	967.95 232.09 145.33	386.16
23 05 23 00-0507 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,127.61 283.81 160.90	429.07
23 05 23 00-0508 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,502.64 427.05 183.89	493.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0509	EA		10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,474.97 827.57 225.26	600.70
23 05 23 00-0510	EA		12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,106.73 1,054.36 273.05	729.41
23 05 23 00-0511 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0500)</small>					
23 05 23 00-0512	EA		2" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	858.16 61.83	164.83
23 05 23 00-0513	EA		2-1/2" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	864.66 62.12	165.14
23 05 23 00-0514	EA		3" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	933.06 72.69	193.61
23 05 23 00-0515	EA		4" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,185.91 122.02	324.58
23 05 23 00-0516	EA		5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI..... <i>For Work In Restricted Working Space, Add</i>	1,454.24 145.33	386.16
23 05 23 00-0517	EA		6" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,610.98 160.90	429.07
23 05 23 00-0518	EA		8" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	2,005.50 183.89	493.43
23 05 23 00-0519	EA		10" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	2,549.57 225.26	600.70
23 05 23 00-0520	EA		12" Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	3,523.95 273.05	729.41

END OF SECTION 23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical

Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001 Retrofit Distribution Enclosures ^(26 01 10 91)

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	482.60
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	101.80
		<i>For >20 To 50, Add</i>	81.44
		<i>For >50 To 100, Add</i>	40.72
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	628.55
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	138.28
		<i>For >20 To 50, Add</i>	110.63
		<i>For >50 To 100, Add</i>	55.31
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	949.62
		Note: 4mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	218.55
		<i>For >20 To 50, Add</i>	174.84
		<i>For >50 To 100, Add</i>	87.42
26 01 10 91-0005	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	481.01
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	101.40
		<i>For >20 To 50, Add</i>	81.12
		<i>For >50 To 100, Add</i>	40.56
26 01 10 91-0006	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	616.66
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	135.31
		<i>For >20 To 50, Add</i>	108.25
		<i>For >50 To 100, Add</i>	54.12
26 01 10 91-0007	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	923.23
		Note: 4mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	211.95
		<i>For >20 To 50, Add</i>	169.56
		<i>For >50 To 100, Add</i>	84.78
26 01 10 91-0008	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	377.52
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	75.53
		<i>For >20 To 50, Add</i>	60.42
		<i>For >50 To 100, Add</i>	30.21
26 01 10 91-0009	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	535.14
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	114.93
		<i>For >20 To 50, Add</i>	91.94
		<i>For >50 To 100, Add</i>	45.97
26 01 10 91-0010	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	765.01
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	172.40
		<i>For >20 To 50, Add</i>	137.92
		<i>For >50 To 100, Add</i>	68.96
26 01 10 91-0011	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	696.80
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	155.35
		<i>For >20 To 50, Add</i>	124.28
		<i>For >50 To 100, Add</i>	62.14
26 01 10 91-0012	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	960.51
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	221.27
		<i>For >20 To 50, Add</i>	177.02
		<i>For >50 To 100, Add</i>	88.51
26 01 10 91-0013	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,765.96
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	422.64
		<i>For >20 To 50, Add</i>	338.11
		<i>For >50 To 100, Add</i>	169.05

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014	EA		3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	801.62	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	181.55	
			For >20 To 50, Add	145.24	
			For >50 To 100, Add	72.62	
26 01 10 91-0015	EA		4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,183.45	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	277.01	
			For >20 To 50, Add	221.61	
			For >50 To 100, Add	110.80	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001			Lock Out/Tag Out Devices <small>(26 01 20 91)</small>		
			Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA		Lock Out/Tag Out Local Disconnect	44.19	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003	EA		Lock Out/Tag Out Breaker Or Motor Starter	44.19	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004	EA		Lock Out Padlock Device.....	12.27	
			Note: Includes the installation and removal of pad lock when required		
26 01 20 91-0005	EA		Lock Out Tags	5.09	
			Note: Includes filling out tag information, installation and removal of identifying tags.		
26 01 20 91-0006			Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0007	EA		Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	25.51	
26 01 20 91-0008	EA		Lighting, Existing Circuit Tracing Per Circuit.....	25.51	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001			Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002			Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003	EA		APCD Permit To Construct And Operate Emergency Generator.....	4,905.32	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001			Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>		
			Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.		
26 01 50 51-0002			Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003	EA		300 Watt, T3, Tungsten Halogen Lamp	50.18	
26 01 50 51-0004	EA		500 Watt, T3, Tungsten Halogen Lamp	64.33	
26 01 50 51-0005	EA		1,000 Watt, T3, Tungsten Halogen Lamp	95.54	
26 01 50 51-0006	EA		90 Watt, PAR38, Halogen Lamp	24.24	
26 01 50 51-0007	EA		100 Watt, PAR38, Halogen Lamp	24.24	
26 01 50 51-0008	EA		60 Watt, PAR38, Halogen IR Reflective Lamp.....	37.48	
26 01 50 51-0009	EA		67 Watt, PAR38, Halogen IR Reflective Lamp.....	41.21	
26 01 50 51-0010	EA		70 Watt, PAR38, Halogen IR Reflective Lamp.....	40.25	
26 01 50 51-0011	EA		90 Watt, PAR38, Halogen IR Reflective Lamp.....	43.10	
26 01 50 51-0012	EA		100 Watt, PAR38, Halogen IR Reflective Lamp.....	43.70	
26 01 50 51-0013	EA		12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	22.03	
26 01 50 51-0014	EA		12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	22.03	
26 01 50 51-0015	EA		12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	24.03	
26 01 50 51-0016	EA		12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	24.03	
26 01 50 51-0017			Incandescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0018	EA		100 Watt, Frosted, Interior Incandescent Lamp	6.93	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-2.03	
26 01 50 51-0019	EA		150 Watt, Frosted, Interior Incandescent Lamp	8.53	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-2.03	
26 01 50 51-0020	EA		200 Watt, Frosted, Interior Incandescent Lamp	10.32	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-2.03	
26 01 50 51-0021	EA		300 Watt, PS25, Interior Incandescent Lamp	12.58	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-2.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0022 EA 60 Watt, G25, Clear, Interior Incandescent Lamp.....	9.54	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.03	
26 01 50 51-0023 EA 75 Watt, R20, Interior Incandescent Lamp.....	14.94	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.44	
26 01 50 51-0024 EA 75 Watt, PAR38, Exterior Incandescent Lamp.....	18.11	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.44	
26 01 50 51-0025 EA 100 Watt, PAR38, Exterior Incandescent Lamp.....	16.84	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.44	
26 01 50 51-0026 EA 150 Watt, PAR38, Exterior Incandescent Lamp.....	28.83	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.44	
26 01 50 51-0027 EA 250 Watt, PAR38, Exterior Incandescent Lamp.....	59.11	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.84	
26 01 50 51-0028 EA 300 Watt, PAR56, Exterior Incandescent Lamp.....	67.91	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.84	
26 01 50 51-0029 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0030 EA Convert Exit Light Lamps To Red LED Lamps.....	115.06	
For Green LED Lamps, Add	25.00	
26 01 50 51-0031 EA Fluorescent Lamp For Exit Light.....	32.57	
For Removal Of Multiple Lamps In A Fixture, Deduct	-8.13	
26 01 50 51-0032 EA Lamp Replacement For Emergency Lights On Exit Sign.....	41.02	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.07	
26 01 50 51-0033 Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0034 EA 18", 15 Watt, T8 Fluorescent Lamp.....	12.92	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0035 EA 2', 17 Watt, T8 Fluorescent Lamp.....	15.57	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0036 EA 3', 25 Watt, T8 Fluorescent Lamp.....	17.89	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0037 EA 4', 32 Watt, T8 Fluorescent Lamp.....	17.86	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0038 EA 4', 30 Watt, T8 Fluorescent Lamp.....	22.46	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0039 EA 4', 28 Watt, T8 Fluorescent Lamp.....	19.67	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0040 EA 4', 25 Watt, T8 Fluorescent Lamp.....	19.56	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0041 EA 4', 44 Watt, T8HO Fluorescent Lamp.....	31.55	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0042 EA 8', 59 Watt, T8 Fluorescent Lamp.....	24.02	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0043 EA 18", 15 Watt, T12 Fluorescent Lamp.....	19.60	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0044 EA 2', 20 Watt, T12 Fluorescent Lamp.....	14.81	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0045 EA 3', 30 Watt, T12 Fluorescent Lamp.....	16.63	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0046 EA 4', 34 Watt, T12 Fluorescent Lamp.....	16.71	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0047 EA 4', 40 Watt, T12 Fluorescent Lamp.....	16.37	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0048 EA 8', 60 Watt, T12 Fluorescent Lamp.....	24.63	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0049 EA 8', 75 Watt, T12 Fluorescent Lamp.....	20.78	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0050 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	35.83	
26 01 50 51-0051 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	19.83	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0052 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	16.29	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0053 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	15.75	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0054 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	17.44	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0055 EA 6", 4 Watt, T5 Fluorescent Lamp.....	14.35	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0056 EA 9", 6 Watt, T5 Fluorescent Lamp.....	14.11	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0057 EA 12", 8 Watt, T5 Fluorescent Lamp.....	14.57	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0058 EA 21", 13 Watt, T5 Fluorescent Lamp.....	15.25	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0059 EA 24", 14 Watt, T5 Fluorescent Lamp.....	17.59	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.25	
26 01 50 51-0060 EA 34", 21 Watt, T5 Fluorescent Lamp.....	19.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0061 EA 46", 28 Watt, T5 Fluorescent Lamp.....	18.52	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0062 EA 46", 54 Watt, T5HO Fluorescent Lamp.....	20.28	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.66	
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp.....	17.35	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	28.90	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.07	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	27.85	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.07	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp.....	26.02	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.03	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp.....	11.38	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.03	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp.....	12.60	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.03	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux.....	33.90	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux.....	33.90	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp.....	64.14	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp.....	23.18	
26 01 50 51-0073 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	11.88	
26 01 50 51-0074 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	10.23	
26 01 50 51-0075 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	10.74	
26 01 50 51-0076 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	44.94	
26 01 50 51-0077 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	49.04	
26 01 50 51-0078 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	93.60	
26 01 50 51-0079 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	112.17	
26 01 50 51-0080 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	115.94	
26 01 50 51-0081 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	41.86	
26 01 50 51-0082 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	43.68	
26 01 50 51-0083 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	50.48	
26 01 50 51-0084 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp.....	49.94	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp.....	47.77	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp.....	54.63	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp.....	53.07	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp.....	52.62	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp.....	52.93	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp.....	63.87	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp.....	74.35	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp.....	73.92	
26 01 50 51-0094 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp.....	41.10	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp.....	41.10	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp.....	42.03	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp.....	43.81	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp.....	42.03	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp.....	42.03	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp.....	39.38	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.13	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp.....	92.04	
26 01 50 51-0103 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp.....	105.51	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp.....	117.81	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp.....	120.58	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp.....	123.36	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp.....	134.44	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp.....	184.31	
26 01 50 51-0110 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0110)		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star).....	16.38	
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0110)		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	21.75	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	21.75	
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	36.16	
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star).....	25.39	
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star).....	45.17	
26 01 50 51-0119 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0110)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	29.42	
				26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	26.37	
				26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	34.46	
				26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	29.08	
				26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	38.07	
				26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	29.08	
26 01 50 51-0126				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	32.30	
				26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	43.49	
				26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	43.49	
				26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	41.69	
				26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	39.89	
				26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	39.89	
				26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	76.28	
				26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	43.49	
				26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	41.69	
				26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	43.49	
				26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	43.49	
26 01 50 51-0138				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	22.77	
				26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	29.42	
				26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	32.30	
26 01 50 51-0142				LED Lamps, PL Series <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	16.12	
				26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	21.52	
				26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	18.52	
				26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	20.40	
				26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	20.40	
				26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	23.77	
				26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	20.40	
				26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	20.40	
				26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	20.40	
				26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	20.40	
				26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	22.65	
				26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	22.65	
				26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	22.65	
				26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	22.65	
				26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	21.52	
				26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	21.52	
				26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	21.52	
				26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	22.27	
				26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	22.27	
				26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	22.44	
				26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	22.44	
				26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	22.44	
				26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	22.44	
				26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	23.02	
				26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	23.02	
				26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	23.02	
				26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	23.02	
				26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	23.02	
				26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	23.02	
				26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	23.02	
				26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	23.02	
				26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	28.88	
				26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	28.88	
				26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	28.88	
				26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	27.53	
				26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	27.53	
				26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	27.53	
				26 01 50 51-0180 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	26.39	
26 01 50 51-0181				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0182 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	53.40	
				26 01 50 51-0183 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	53.40	
				26 01 50 51-0184 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	67.26	
				26 01 50 51-0185 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	67.26	
				26 01 50 51-0186 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	48.13	
				26 01 50 51-0187 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	48.13	
				26 01 50 51-0188 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	48.13	
				26 01 50 51-0189 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	48.13	
				26 01 50 51-0190 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026).....	49.63	
				26 01 50 51-0191 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026).....	49.63	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

26 01 50 51-0192	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	49.63	
26 01 50 51-0193	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	49.63	
26 01 50 51-0194	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	55.63	
26 01 50 51-0195	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	55.63	
26 01 50 51-0196	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	55.63	
26 01 50 51-0197	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	55.63	
26 01 50 51-0198	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	63.13	
26 01 50 51-0199	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	63.13	
26 01 50 51-0200	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	63.13	
26 01 50 51-0201	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	63.13	
26 01 50 51-0202	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	79.62	
26 01 50 51-0203	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	79.62	
26 01 50 51-0204	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	79.62	
26 01 50 51-0205	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	79.62	
26 01 50 51-0206	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	93.87	
26 01 50 51-0207	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	93.87	
26 01 50 51-0208	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	93.87	
26 01 50 51-0209	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	93.87	
26 01 50 51-0210	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	103.62	
26 01 50 51-0211	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	103.62	
26 01 50 51-0212	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	103.62	
26 01 50 51-0213	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	103.62	
26 01 50 51-0214	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	138.86	
26 01 50 51-0215	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	138.86	
26 01 50 51-0216	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	138.86	
26 01 50 51-0217	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	138.86	
26 01 50 51-0218	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	143.36	
26 01 50 51-0219	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	143.36	
26 01 50 51-0220	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	143.36	
26 01 50 51-0221	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	143.36	
26 01 50 51-0222	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	169.60	
26 01 50 51-0223	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	169.60	
26 01 50 51-0224	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	169.60	
26 01 50 51-0225	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	169.60	
26 01 50 51-0226	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	201.09	
26 01 50 51-0227	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	201.09	
26 01 50 51-0228	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	201.09	
26 01 50 51-0229	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	201.09	
26 01 50 51-0230	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	65.74	
26 01 50 51-0231	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	70.99	
26 01 50 51-0232	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	70.99	
26 01 50 51-0233	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	65.74	
26 01 50 51-0234	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	82.23	
26 01 50 51-0235	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	75.49	
26 01 50 51-0236	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	90.48	
26 01 50 51-0237	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	89.60	
26 01 50 51-0238	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	91.61	
26 01 50 51-0239	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	91.61	
26 01 50 51-0240	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	56.01	
26 01 50 51-0241	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	56.01	
26 01 50 51-0242	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	62.95	
26 01 50 51-0243	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	62.95	
26 01 50 51-0244	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	67.56	
26 01 50 51-0245	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	67.56	
26 01 50 51-0246	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	74.49	
26 01 50 51-0247	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	74.49	
26 01 50 51-0248	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	74.85	
26 01 50 51-0249	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	81.00	
26 01 50 51-0250	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	100.42	
26 01 50 51-0251	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	110.46	
26 01 50 51-0252	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	44.26	
26 01 50 51-0253	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	49.65	
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	52.35	
26 01 50 51-0255	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	57.38	
26 01 50 51-0256	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	68.71	
26 01 50 51-0257	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	80.25	
26 01 50 51-0258	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	109.09	
26 01 50 51-0259	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	114.86	
26 01 50 51-0260	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	124.09	
26 01 50 51-0261	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	129.85	
26 01 50 51-0262	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	186.38	
26 01 50 51-0263	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	64.16	

26 01 50 51-0264 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0110)

26 01 50 51-0265	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	178.75	
26 01 50 51-0266	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	178.75	
26 01 50 51-0267	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	178.75	
26 01 50 51-0268	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	53.40	
26 01 50 51-0269	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	53.40	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0270	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	53.40	
26 01 50 51-0271	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	67.26	
26 01 50 51-0272	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	67.26	
26 01 50 51-0273	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	67.26	
26 01 50 51-0274	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	123.50	
26 01 50 51-0275	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	138.86	
26 01 50 51-0276	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	138.86	
26 01 50 51-0277	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	138.86	
26 01 50 51-0278	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	138.86	
26 01 50 51-0279	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	143.36	
26 01 50 51-0280	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	143.36	
26 01 50 51-0281	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	143.36	
26 01 50 51-0282	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	143.36	
26 01 50 51-0283	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	169.60	
26 01 50 51-0284	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	169.60	
26 01 50 51-0285	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	169.60	
26 01 50 51-0286	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	169.60	
26 01 50 51-0287	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	201.09	
26 01 50 51-0288	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	201.09	
26 01 50 51-0289	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	201.09	
26 01 50 51-0290	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	201.09	
26 01 50 51-0291	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	70.99	
26 01 50 51-0292	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	70.99	
26 01 50 51-0293	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	82.23	
26 01 50 51-0294	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	81.20	
26 01 50 51-0295	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	90.48	
26 01 50 51-0296	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	89.60	
26 01 50 51-0297	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	91.61	
26 01 50 51-0298	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	89.00	
26 01 50 51-0299	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	190.95	
26 01 50 51-0300	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	70.96	
26 01 50 51-0301	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	70.96	
26 01 50 51-0302	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	80.29	
26 01 50 51-0303	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	80.29	
26 01 50 51-0304	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	85.90	
26 01 50 51-0305	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	85.90	
26 01 50 51-0306	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	55.92	
26 01 50 51-0307	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	55.92	
26 01 50 51-0308	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	62.95	
26 01 50 51-0309	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	62.95	
26 01 50 51-0310	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	67.56	
26 01 50 51-0311	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	67.56	
26 01 50 51-0312	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	74.49	
26 01 50 51-0313	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	74.49	
26 01 50 51-0314	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	132.88	
26 01 50 51-0315	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	153.43	
26 01 50 51-0316	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	182.67	
26 01 50 51-0317	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	354.87	
26 01 50 51-0318	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	335.20	
26 01 50 51-0319	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	354.87	
26 01 50 51-0320	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	356.40	
26 01 50 51-0321	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	55.58	
26 01 50 51-0322	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	55.58	
26 01 50 51-0323	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	55.58	
26 01 50 51-0324	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	162.03	
26 01 50 51-0325	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	410.36	
26 01 50 51-0326	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	168.07	
26 01 50 51-0327	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	197.77	
26 01 50 51-0328	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	87.91	
26 01 50 51-0329	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	286.09	
26 01 50 51-0330				LED Lamps, 2G11 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0331	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	48.15	
26 01 50 51-0332				LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0333	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	23.69	
26 01 50 51-0334				LED Lamps, G24 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0335	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	30.78	
26 01 50 51-0336				LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0110)</small>		
26 01 50 51-0337	EA			2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	42.23	
				<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.25	
26 01 50 51-0338	EA			2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	54.97	
				<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.25	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0339 EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	45.50	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.46	
26 01 50 51-0340 EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	49.83	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.66	
26 01 50 51-0341 EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	54.61	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.66	
26 01 50 51-0342 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	34.29	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.66	
26 01 50 51-0343 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	33.06	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.25	
26 01 50 51-0344 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	30.10	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.25	
26 01 50 51-0345 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	30.62	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.46	
26 01 50 51-0346 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	30.61	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.66	
26 01 50 51-0347 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	31.74	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.66	
26 01 50 51-0348 Filament LED Lamps <small>(26 01 50 51-0110)</small>		
26 01 50 51-0349 EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	17.88	
26 01 50 51-0350 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	17.88	
26 01 50 51-0351 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	17.13	
26 01 50 51-0352 EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	17.13	
26 01 50 51-0353 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	18.33	
26 01 50 51-0354 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	18.33	
26 01 50 51-0355 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	15.63	
26 01 50 51-0356 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	15.63	
26 01 50 51-0357 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	16.08	
26 01 50 51-0358 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	19.38	
26 01 50 51-0359 EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	22.97	
26 01 50 51-0360 Other Lamps <small>(26 01 50 51-0110)</small>		
26 01 50 51-0361 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	17.01	
26 01 50 51-0362 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	17.01	
26 01 50 51-0363 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	17.01	
26 01 50 51-0364 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	17.76	
26 01 50 51-0365 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	17.76	
26 01 50 51-0366 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	17.76	
26 01 50 51-0367 LED Lamps, Light Engines, Round, LER Series <small>(26 01 50 51-0110)</small>		
26 01 50 51-0368 EA 5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	55.42	
26 01 50 51-0369 EA 9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	31.81	
26 01 50 51-0370 Remove Hazardous Lamps From Fixture For Recycling <small>(26 01 50 51)</small>		
Note: Excludes containers, shipping costs and recycling fees. See CSI section 26 01 50 51-0379 for recycling hazardous lamps.		
26 01 50 51-0371 EA Removal Of 2' Length Linear Fluorescent Lamps	4.31	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-1.42	
26 01 50 51-0372 EA Removal Of 3' Length Linear Fluorescent Lamps	4.93	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-1.63	
26 01 50 51-0373 EA Removal Of 4' Length Linear Fluorescent Lamps	5.54	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-1.83	
26 01 50 51-0374 EA Removal Of 6' Length Linear Fluorescent Lamps	6.16	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.03	
26 01 50 51-0375 EA Removal Of 8' Length Linear Fluorescent Lamps	6.77	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.23	
26 01 50 51-0376 EA Removal Of Compact Fluorescent Lamps	3.69	
<i>For >25 To 40, Deduct</i>	-0.37	
<i>For >40, Deduct</i>	-0.74	
26 01 50 51-0377 EA Removal Of U-Shaped Or Circular Fluorescent Lamps	5.86	
<i>For >25 To 40, Deduct</i>	-0.59	
<i>For >40, Deduct</i>	-1.17	
26 01 50 51-0378 EA Removal Of High Intensity Discharge (HID) Or Metal Halide Lamps	10.47	
<i>For >25 To 40, Deduct</i>	-1.05	
<i>For >40, Deduct</i>	-2.09	
26 01 50 51-0379 Recycle Hazardous Lamps <small>(26 01 50 51)</small>		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0380 EA Recycle 2' Length Linear Fluorescent Lamps	1.73	
26 01 50 51-0381 EA Recycle 3' Length Linear Fluorescent Lamps	2.22	
26 01 50 51-0382 EA Recycle 4' Length Linear Fluorescent Lamps	2.71	
26 01 50 51-0383 EA Recycle 6' Length Linear Fluorescent Lamps	3.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0384 EA Recycle 8' Length Linear Fluorescent Lamps	4.80	
26 01 50 51-0385 EA Recycle Compact Fluorescent Lamps	4.42	
26 01 50 51-0386 EA Recycle U-Shaped Or Circular Fluorescent Lamps	4.42	
26 01 50 51-0387 EA Recycle High Intensity Discharge (HID) Lamps	6.99	
26 01 50 52 Ballasts Replacement <small>(26 01 50)</small>		
26 01 50 52-0001 High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002 Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0001)</small>		
26 01 50 52-0003 Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0004 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0005 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	167.46	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	171.48	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	171.48	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	160.03	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	160.03	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	236.74	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	236.74	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	304.31	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	338.77	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	151.57	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	160.56	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	156.68	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	183.70	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	179.84	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	204.91	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	204.91	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	246.61	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	246.61	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	392.94	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	392.94	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0027 EA Single Mounting Bracket For Core And Coil Type	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 01 50 52-0028 EA Double Mounting Bracket For Core And Coil Type	30.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0030 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>		
26 01 50 52-0031 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	211.74	30.80
For Pulse Start Ballast, Add	16.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0032 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	222.89	30.80
For Pulse Start Ballast, Add	17.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	
26 01 50 52-0033 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	203.29	30.80
For Pulse Start Ballast, Add	16.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.94	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50	52-0034	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	235.50 19.24 12.94	30.80
26 01 50	52-0035	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	325.75 28.26 12.94	30.80
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>					
26 01 50	52-0037	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	254.00 12.94	30.80
26 01 50	52-0038	EA	1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	271.39 12.94	30.80
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>					
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>					
26 01 50	52-0041	EA	1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	420.66 12.94	30.80
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>					
26 01 50	52-0043	EA	1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	646.29 12.89	30.68
26 01 50	52-0044	EA	1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	720.40 12.89	30.68
26 01 50	52-0045	EA	1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	694.76 12.89	30.68
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>					
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>					
26 01 50	52-0048	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	517.20 12.94	30.80
26 01 50	52-0049	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	586.59 12.94	30.80
26 01 50	52-0050	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	773.75 12.94	30.80
26 01 50	52-0051	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	769.72 12.94	30.80
26 01 50	52-0052	EA	2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,077.34 13.68	33.26
26 01 50	52-0053	EA	2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,077.34 13.68	33.26
26 01 50	52-0054	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	742.18 12.94	30.80
26 01 50	52-0055	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	872.62 12.94	30.80
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>					
26 01 50	52-0057	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	962.31 12.94	30.80
26 01 50	52-0058	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	916.34 12.94	30.80
26 01 50	52-0059	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,176.97 12.94	30.80
26 01 50	52-0060	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,176.97 12.94	30.80
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>					
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0061)</small>					
26 01 50	52-0063	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	580.79 12.94	30.80
26 01 50	52-0064	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	627.11 12.94	30.80
26 01 50	52-0065	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	622.55 12.94	30.80
26 01 50	52-0066	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	653.58 12.94	30.80
26 01 50	52-0067	EA	2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,036.87 13.68	33.26
26 01 50	52-0068	EA	2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,273.83 13.68	33.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	967.70	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	881.30	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0061)</small>		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	748.86	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	807.28	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,203.93	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,036.34	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0076 Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0001)</small>		
26 01 50 52-0077 Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0076)</small>		
26 01 50 52-0078 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	233.95	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0079 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	233.95	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0080 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	263.23	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0081 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	673.55	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0082 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	673.55	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0083 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	673.55	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0084 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	673.55	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0085 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	673.55	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0086 Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0087 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast	24.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.39	
26 01 50 52-0088 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast	30.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 01 50 52-0089 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast	35.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.72	
26 01 50 52-0090 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast	38.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.46	
26 01 50 52-0091 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast	43.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 01 50 52-0092 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast	45.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.68	
26 01 50 53 Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001 Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver	85.08	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures	189.36	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole	212.70	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures	90.19	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	31.07	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	32.12	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	36.66	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder	13.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder	14.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder	15.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	17.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	18.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	15.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes	60.83	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,546.35	966.48
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,166.21	1,055.30
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,948.41	1,192.32
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,393.50	1,468.99
26 05 13 16-0008	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,275.32	1,654.21
26 05 13 16-0009	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,860.54	1,836.14
26 05 13 16-0010	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,972.12	2,063.09
26 05 13 16-0011	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,783.17	2,295.27
26 05 13 16-0012	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,758.91	2,740.50
26 05 13 16-0013	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,263.42	3,221.40
26 05 13 16-0014	MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	25,365.48	3,796.77
26 05 13 16-0015	MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,473.61	4,371.85

26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial ^(26 05 13 16-0002)

Note: Excludes excavation.

26 05 13 16-0017	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,425.54	
26 05 13 16-0018	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,823.25	
26 05 13 16-0019	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,262.82	
26 05 13 16-0020	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,243.35	
26 05 13 16-0021	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,661.99	
26 05 13 16-0022	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,018.87	
26 05 13 16-0023	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,563.09	
26 05 13 16-0024	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,025.93	
26 05 13 16-0025	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,009.15	
26 05 13 16-0026	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,420.09	

26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) ^(26 05 13 16-0002)

26 05 13 16-0028	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,729.34	605.50
26 05 13 16-0029	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,242.79	649.22
26 05 13 16-0030	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,135.76	820.99
26 05 13 16-0031	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,353.27	996.66
26 05 13 16-0032	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,229.67	1,169.99
26 05 13 16-0033	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,803.85	1,338.00
26 05 13 16-0034	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,914.37	1,552.46
26 05 13 16-0035	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,203.25	1,953.09
26 05 13 16-0036	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,434.12	2,471.27
26 05 13 16-0037	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,410.11	3,104.92

26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor ^(26 05 13 16-0002)

26 05 13 16-0039	MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,640.22	1,926.06
26 05 13 16-0040	MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,698.27	1,953.75
26 05 13 16-0041	MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,756.33	1,981.42
26 05 13 16-0042	MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,148.10	2,025.22
26 05 13 16-0043	MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,016.51	2,102.47
26 05 13 16-0044	MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,808.78	2,203.42
26 05 13 16-0045	MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	25,719.39	2,754.27
26 05 13 16-0046	MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,897.99	3,672.41

26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0048	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,749.80	966.48
26 05 13 16-0049	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,441.25	1,055.30
26 05 13 16-0050	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,302.57	1,192.32
26 05 13 16-0051	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,092.75	1,330.59
26 05 13 16-0052	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,883.31	1,468.99
26 05 13 16-0053	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,840.48	1,654.21
26 05 13 16-0054	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,629.15	1,836.14
26 05 13 16-0055	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,838.70	2,063.09
26 05 13 16-0056	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,871.29	2,295.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	15,002.26	2,740.50
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	18,921.22	3,221.40
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	28,223.34	3,796.77
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	37,531.52	4,371.85
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
<i>Note: Excludes excavation.</i>		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,629.00	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,098.30	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,616.99	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,175.60	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,733.15	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,227.15	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,787.48	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,429.67	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,114.05	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,252.50	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,077.89	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	2,932.79	605.50
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,517.83	649.22
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,489.92	820.99
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,164.88	908.17
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,843.08	996.66
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,794.83	1,169.99
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,572.46	1,338.00
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,780.95	1,552.46
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,291.37	1,953.09
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,677.47	2,471.27
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,067.91	3,104.92
26 05 13 16-0085 15 KV Cable <small>(26 05 13 16-0001)</small>		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0086)</small>		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	7,580.27	1,926.06
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,142.77	1,926.06
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,357.33	1,926.06
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,056.29	1,926.06
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,719.70	1,926.06
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,044.18	2,010.48
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,304.80	2,010.48
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,956.61	2,102.47
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,608.04	2,151.77
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	17,929.82	2,423.76
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0086)</small>		
<i>Note: Excludes excavation.</i>		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,285.47	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,984.43	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,647.84	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,998.96	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,259.58	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,025.54	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,680.05	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,726.41	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0086)</small>		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,826.48	864.97
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,873.27	996.66
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,994.44	1,169.99
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	9,551.90	1,338.00
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,378.82	1,552.46
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,473.58	1,807.27
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,790.41	2,105.93

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,331.13	2,446.23
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,077.99	1,926.06
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,741.74	1,926.06
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,994.92	1,926.06
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,819.69	1,926.06
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,602.52	1,926.06
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,127.44	2,010.48
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,434.98	2,010.48
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,342.68	2,102.47
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,269.19	2,151.77
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	20,066.49	2,423.76
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,923.07	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,747.83	
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,530.66	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,082.22	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,389.75	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,407.57	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,332.58	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,863.08	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,464.08	864.97
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,636.67	996.66
26 05 13 16-0140 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,877.26	1,169.99
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,635.16	1,338.00
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,508.99	1,552.46
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,859.65	1,807.27
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,451.56	2,105.93
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,467.80	2,446.23
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,588.06	1,932.81
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,264.53	1,979.02
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,590.43	2,025.22
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	18,462.41	2,160.17
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	52.21	14.74
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.78	15.69
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	52.21	14.74
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.78	15.69
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	3,757.17	966.48
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,451.21	1,055.30
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	5,315.40	1,192.32
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	6,891.27	1,464.99
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	7,848.55	1,649.26
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,656.97	1,836.14
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	10,850.82	2,055.38
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	17,043.86	



				DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0168				Wire Connections <small>(26 05 13 16-0001)</small>			
26 05 13 16-0169				Medium Voltage Up To 5 KV <small>(26 05 13 16-0168)</small>			
26 05 13 16-0170				Shielded One Conductor Cable Splice <small>(26 05 13 16-0169)</small>			
26 05 13 16-0171	EA			#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	378.59	122.44	
26 05 13 16-0172	EA			#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	508.67	122.44	
26 05 13 16-0173	EA			1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	508.67	122.44	
26 05 13 16-0174	EA			2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	545.11	146.93	
26 05 13 16-0175	EA			3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	545.11	146.93	
26 05 13 16-0176	EA			4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	545.11	146.93	
26 05 13 16-0177	EA			250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	593.70	171.42	
26 05 13 16-0178	EA			350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	593.70	171.42	
26 05 13 16-0179	EA			500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	593.70	171.42	
26 05 13 16-0180				Cable Termination Without Stress Cone <small>(26 05 13 16-0169)</small>			
26 05 13 16-0181	EA			#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	567.63	146.93	
26 05 13 16-0182	EA			250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	655.00	171.42	
26 05 13 16-0183				Cable Termination With Stress Cone <small>(26 05 13 16-0169)</small>			
26 05 13 16-0184	EA			#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,700.92	293.86	
26 05 13 16-0185	EA			250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,337.71	404.07	
26 05 13 16-0186				Connect To Pothead, Pothead Included <small>(26 05 13 16-0169)</small>			
26 05 13 16-0187	EA			#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,779.48	293.86	
26 05 13 16-0188	EA			250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	2,280.25	336.73	
26 05 13 16-0189				Two Conductor Pothead <small>(26 05 13 16-0169)</small>			
				Note: Includes 5 KV pothead.			
26 05 13 16-0190	EA			#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,289.57	404.07	
26 05 13 16-0191	EA			250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,730.27	514.27	
26 05 13 16-0192	EA			400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,654.94	583.08	
26 05 13 16-0193	EA			750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,338.11	680.30	
26 05 13 16-0194	EA			1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	7,995.97	1,020.33	
26 05 13 16-0195				Three Conductor Pothead <small>(26 05 13 16-0169)</small>			
				Note: Includes 5 KV pothead.			
26 05 13 16-0196	EA			#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	5,312.55	587.74	
26 05 13 16-0197	EA			250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	5,814.03	685.69	
26 05 13 16-0198				Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>			
				Note: For bare wire.			
26 05 13 16-0199	EA			#6 AWG Crimp Compression Connection For Bare Copper Wire	81.10		
26 05 13 16-0200	EA			#4 AWG Crimp Compression Connection For Bare Copper Wire	89.68		
26 05 13 16-0201	EA			#3 AWG Crimp Compression Connection For Bare Copper Wire	104.55		
26 05 13 16-0202	EA			#2 AWG Crimp Compression Connection For Bare Copper Wire	118.33		
26 05 13 16-0203	EA			#1 AWG Crimp Compression Connection For Bare Copper Wire	133.65		
26 05 13 16-0204	EA			1/0 AWG Crimp Compression Connection For Bare Copper Wire	148.35		
26 05 13 16-0205	EA			2/0 AWG Crimp Compression Connection For Bare Copper Wire	162.80		
26 05 13 16-0206	EA			3/0 AWG Crimp Compression Connection For Bare Copper Wire	178.32		
26 05 13 16-0207	EA			4/0 AWG Crimp Compression Connection For Bare Copper Wire	193.19		
26 05 13 16-0208	EA			250 MCM Crimp Compression Connection For Bare Copper Wire	208.53		
26 05 13 16-0209	EA			300 MCM Crimp Compression Connection For Bare Copper Wire	224.47		
26 05 13 16-0210	EA			350 MCM Crimp Compression Connection For Bare Copper Wire	238.98		
26 05 13 16-0211	EA			400 MCM Crimp Compression Connection For Bare Copper Wire	270.50		
26 05 13 16-0212	EA			500 MCM Crimp Compression Connection For Bare Copper Wire	303.48		
26 05 13 16-0213				Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>			
				Note: For bare wire.			
26 05 13 16-0214	EA			#6 AWG Crimp Compression Connection For Bare Aluminum Wire	83.90		
26 05 13 16-0215	EA			#4 AWG Crimp Compression Connection For Bare Aluminum Wire	91.23		
26 05 13 16-0216	EA			#2 AWG Crimp Compression Connection For Bare Aluminum Wire	123.44		
26 05 13 16-0217	EA			#1 AWG Crimp Compression Connection For Bare Aluminum Wire	146.65		
26 05 13 16-0218	EA			1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	160.62		
26 05 13 16-0219	EA			2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	174.52		
26 05 13 16-0220	EA			3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	191.92		
26 05 13 16-0221	EA			4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	207.58		
26 05 13 16-0222	EA			250 MCM Crimp Compression Connection For Bare Aluminum Wire	222.58		
26 05 13 16-0223	EA			300 MCM Crimp Compression Connection For Bare Aluminum Wire	238.21		
26 05 13 16-0224	EA			350 MCM Crimp Compression Connection For Bare Aluminum Wire	253.40		
26 05 13 16-0225	EA			400 MCM Crimp Compression Connection For Bare Aluminum Wire	291.16		
26 05 13 16-0226	EA			500 MCM Crimp Compression Connection For Bare Aluminum Wire	329.25		

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 13 16-0227		15 KV <small>(26 05 13 16-0168)</small>			
26 05 13 16-0228		Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>			
		Note: Includes pothead.			
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	1,566.15		514.27
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	1,998.90		636.71
26 05 13 16-0231		Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>			
		Note: Includes pothead.			
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,305.89		783.64
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,773.72		930.58
26 05 13 16-0234		Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>			
		Note: Includes pothead.			
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	2,943.33		1,016.30
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	3,666.49		1,273.43
26 05 13 16-0237		Stress Relief Cone On Rack <small>(26 05 13 16-0227)</small>			
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack	1,471.23		514.27
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack	1,892.18		636.71
26 05 13 16-0240		Grounded, Shielded Cable Splice <small>(26 05 13 16-0227)</small>			
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,012.73		379.58
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,297.41		489.78
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	6,280.33		1,346.89
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	8,076.23		1,469.34
26 05 13 16-0245		Cable Termination <small>(26 05 13 16-0227)</small>			
26 05 13 16-0246	EA	#2 To 3/0 AWG Cable Termination 15 KV	673.56		214.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.57		
26 05 13 16-0247	EA	4/0 To 250 MCM Cable Termination 15 KV	850.76		275.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.30		
26 05 13 16-0248	EA	350 To 500 MCM Cable Termination 15 KV	1,054.94		336.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.04		
26 05 13 16-0249	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	429.70		122.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47		
26 05 13 16-0250		Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0227)</small>			
26 05 13 16-0251	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	865.09		159.18
26 05 13 16-0252	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	985.60		175.93
26 05 13 16-0253	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,171.25		192.53
26 05 13 16-0254	EA	400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,507.62		221.82
26 05 13 16-0255		Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0227)</small>			
26 05 13 16-0256	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,730.20		318.90
26 05 13 16-0257	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,971.45		351.85
26 05 13 16-0258	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,328.23		377.91
26 05 13 16-0259	EA	400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	3,015.23		443.65
26 05 13 16-0260		35 KV <small>(26 05 13 16-0168)</small>			
26 05 13 16-0261		35 KV One Conductor Splice <small>(26 05 13 16-0260)</small>			
26 05 13 16-0262	EA	#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	2,530.93		
26 05 13 16-0263		Cable Termination <small>(26 05 13 16-0260)</small>			
26 05 13 16-0264	EA	#2 To 3/0 AWG Cable Termination, 35 KV	589.73		147.05
26 05 13 16-0265	EA	3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	805.39		221.87
26 05 13 16-0266	EA	350 To 500 MCM Cable Termination 35 KV	934.98		237.30
26 05 13 16-0267	EA	#2 To 3/0 AWG Cable Elbow Termination 35 KV	467.92		122.44
26 05 13 16-0268		70 KV <small>(26 05 13 16-0168)</small>			
26 05 13 16-0269		Cable Splice <small>(26 05 13 16-0268)</small>			
26 05 13 16-0270	EA	350 MCM, 70 KV, Cable Splicing.....	13,520.50		
26 05 13 16-0271	EA	#2 To 4/0, 70 KV, Cable Splicing	2,626.95		

26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)

26 05 19 16-0001 Cable Installation Methods (26 05 19 16)

26 05 19 16-0002 Pull Cord (26 05 19 16-0001)

Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.

26 05 19 16-0003	LF	Pull String Installed To Remain In Place, In Existing Conduit.....	0.39	
26 05 19 16-0004	LF	Pull String Installed To Remain In Place, In New Conduits	0.20	
26 05 19 16-0005	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.67	
26 05 19 16-0006	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.42	

26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)

Note: For installation under roads, driveways or other structures up to 20'.

26 05 19 16-0008	LF	Bore 1" To 4" Conduit Into Dirt Or Sand	3.39	
26 05 19 16-0009	LF	Bore 5" To 8" Conduit Into Dirt Or Sand	4.32	
26 05 19 16-0010	EA	Boring Minimum Set-Up Charge.....	474.60	

Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.

26 05 19 16-0011 Wire and Cable (26 05 19 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types.

26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)

26 05 19 16-0013 Single Solid Conductor, Copper (26 05 19 16-0012)

26 05 19 16-0014	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	666.60	271.54
26 05 19 16-0015	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	832.26	319.43
26 05 19 16-0016	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,026.24	390.59
26 05 19 16-0017	MLF	#14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	852.62	271.54
26 05 19 16-0018	MLF	#12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,028.57	319.43
26 05 19 16-0019	MLF	#10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,230.86	390.59

26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)

26 05 19 16-0021 Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0020)

26 05 19 16-0022	MLF	#16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	697.24	223.77
26 05 19 16-0023	MLF	#14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	823.68	268.52
26 05 19 16-0024	MLF	#12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,011.65	313.28
26 05 19 16-0025	MLF	#10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,241.12	358.04
26 05 19 16-0026	MLF	#8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,650.35	447.55
26 05 19 16-0027	MLF	#6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,221.39	537.05
26 05 19 16-0028	MLF	#4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,033.40	671.31
26 05 19 16-0029	MLF	#3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,584.97	760.83
26 05 19 16-0030	MLF	#2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,238.77	850.34
26 05 19 16-0031	MLF	#1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,240.91	939.84
26 05 19 16-0032	MLF	1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,281.48	1,074.11
26 05 19 16-0033	MLF	2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,515.24	1,208.37
26 05 19 16-0034	MLF	3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,982.98	1,342.63
26 05 19 16-0035	MLF	4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,748.81	1,476.90
26 05 19 16-0036	MLF	250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,396.72	1,611.15
26 05 19 16-0037	MLF	300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,493.78	1,745.42
26 05 19 16-0038	MLF	350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,396.92	1,879.69
26 05 19 16-0039	MLF	400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	16,093.24	2,013.94
26 05 19 16-0040	MLF	500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,613.09	2,148.21
26 05 19 16-0041	MLF	600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	21,418.10	2,327.22
26 05 19 16-0042	MLF	750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	32,444.07	2,595.76
26 05 19 16-0043	MLF	1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	45,688.34	3,043.29

26 05 19 16-0044 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0020)

26 05 19 16-0045	MLF	2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,647.38	536.94
26 05 19 16-0046	MLF	3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,023.53	626.67
26 05 19 16-0047	MLF	4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,511.67	760.83
26 05 19 16-0048	MLF	6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,983.24	827.62
26 05 19 16-0049	MLF	7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,248.16	872.60
26 05 19 16-0050	MLF	9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,776.29	962.00
26 05 19 16-0051	MLF	10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,659.04	1,002.72
26 05 19 16-0052	MLF	12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,569.75	1,096.48
26 05 19 16-0053	MLF	14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,042.75	1,163.84
26 05 19 16-0054	MLF	24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	7,349.50	1,477.01
26 05 19 16-0055	MLF	37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	11,120.33	2,192.97
26 05 19 16-0056	MLF	2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,023.58	626.67
26 05 19 16-0057	MLF	3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,587.53	760.83
26 05 19 16-0058	MLF	4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,151.52	895.08
26 05 19 16-0059	MLF	2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,705.17	805.25

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0060	MLF	3	Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,497.51	983.70
26 05 19 16-0061	MLF	4	Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,517.51	1,253.35
26 05 19 16-0062	MLF	6	Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,105.54	1,611.72
26 05 19 16-0063	MLF	9	Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,261.37	2,058.81
26 05 19 16-0064	MLF	2	Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,356.65	917.47
26 05 19 16-0065	MLF	3	Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,279.74	1,074.11
26 05 19 16-0066	MLF	4	Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,538.50	1,365.01
26 05 19 16-0067	MLF	2	Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,330.99	1,029.35
26 05 19 16-0068	MLF	3	Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,825.02	1,275.50
26 05 19 16-0069	MLF	4	Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,447.81	1,573.12
26 05 19 16-0070	MLF	2	Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,832.30	1,248.87
26 05 19 16-0071	MLF	3	Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,636.47	1,428.45
26 05 19 16-0072	MLF	4	Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,876.73	1,782.57
26 05 19 16-0073	MLF	2	Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,028.84	1,521.21
26 05 19 16-0074	MLF	3	Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,591.56	1,701.11
26 05 19 16-0075	MLF	4	Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	14,046.02	2,237.72
26 05 19 16-0076	MLF	3	Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	14,043.53	2,147.88
26 05 19 16-0077	MLF	4	Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	18,275.50	2,684.14
26 05 19 16-0078	MLF	3	Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,607.75	2,327.68
26 05 19 16-0079	MLF	3	Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	20,193.26	2,684.14
26 05 19 16-0080	MLF	3	Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	24,707.83	3,131.47
26 05 19 16-0081	MLF	4	Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,570.98	4,026.22
26 05 19 16-0082	MLF	3	Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	30,128.28	3,583.37
26 05 19 16-0083	MLF	3	Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,171.86	4,026.22
26 05 19 16-0084	MLF	3	Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	40,281.65	4,475.43
26 05 19 16-0085	MLF	3	Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	52,024.52	4,918.73

26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0012)

Note: Direct bury.

26 05 19 16-0087	MLF	#14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,000.46
26 05 19 16-0088	MLF	#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,177.75
26 05 19 16-0089	MLF	#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,480.26
26 05 19 16-0090	MLF	#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,950.23
26 05 19 16-0091	MLF	#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,739.53
26 05 19 16-0092	MLF	#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,612.65
26 05 19 16-0093	MLF	#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,234.51
26 05 19 16-0094	MLF	#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,522.64
26 05 19 16-0095	MLF	1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,008.02
26 05 19 16-0096	MLF	2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,711.75
26 05 19 16-0097	MLF	3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,717.61
26 05 19 16-0098	MLF	4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,240.45
26 05 19 16-0099	MLF	250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,337.23
26 05 19 16-0100	MLF	300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,181.04
26 05 19 16-0101	MLF	350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,215.57
26 05 19 16-0102	MLF	400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,597.33
26 05 19 16-0103	MLF	500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,600.88
26 05 19 16-0104	MLF	600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	30,250.67
26 05 19 16-0105	MLF	750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	48,183.87
26 05 19 16-0106	MLF	#14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	817.51
26 05 19 16-0107	MLF	#12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	978.89
26 05 19 16-0108	MLF	#10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,169.61
26 05 19 16-0109	MLF	#8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,435.86
26 05 19 16-0110	MLF	#6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,841.26
26 05 19 16-0111	MLF	#4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,442.39
26 05 19 16-0112	MLF	#2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,307.36
26 05 19 16-0113	MLF	#1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,903.75
26 05 19 16-0114	MLF	1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,420.33
26 05 19 16-0115	MLF	2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,981.68
26 05 19 16-0116	MLF	3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,780.27
26 05 19 16-0117	MLF	4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,741.75
26 05 19 16-0118	MLF	250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,637.94
26 05 19 16-0119	MLF	300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,582.18
26 05 19 16-0120	MLF	350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,605.43
26 05 19 16-0121	MLF	400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,663.03
26 05 19 16-0122	MLF	500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,391.10
26 05 19 16-0123	MLF	750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,580.13
26 05 19 16-0124	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	683.13
26 05 19 16-0125	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	848.29
26 05 19 16-0126	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,049.07
26 05 19 16-0127	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,469.77
26 05 19 16-0128	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,995.92
26 05 19 16-0129	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,633.78
26 05 19 16-0130	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,757.89
26 05 19 16-0131	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,472.78
26 05 19 16-0132	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,203.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0133 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,902.56	
26 05 19 16-0134 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,996.08	
26 05 19 16-0135 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,330.75	
26 05 19 16-0136 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,774.00	
26 05 19 16-0137 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,277.38	
26 05 19 16-0138 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,892.69	
26 05 19 16-0139 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,451.54	
26 05 19 16-0140 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,146.85	
26 05 19 16-0141 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,602.38	
26 05 19 16-0142 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,490.53	
26 05 19 16-0143 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,522.13	
26 05 19 16-0144 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,904.74	
26 05 19 16-0145 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,778.98	
26 05 19 16-0146 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,966.78	
26 05 19 16-0147 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,074.52	
26 05 19 16-0148 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,937.77	
26 05 19 16-0149 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,048.66	
26 05 19 16-0150 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,529.47	
26 05 19 16-0151 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,109.12	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors <small>(26 05 19 16-0012)</small>		
26 05 19 16-0153 ACTHH, Solid <small>(26 05 19 16-0152)</small>		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,733.76	734.67
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,158.06	832.62
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,638.47	881.60
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	3,884.87	1,224.45
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,141.66	1,371.14
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,319.22	1,519.18
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,063.96	1,665.86
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,735.80	1,371.14
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,932.50	1,519.18
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,386.78	1,714.96
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,424.42	1,860.92
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,687.46	1,519.18
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,214.72	1,714.96
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,002.83	1,910.26
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,527.74	2,057.93
26 05 19 16-0169 ACTHH, Stranded <small>(26 05 19 16-0152)</small>		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,310.01	1,764.31
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	8,967.17	2,007.24
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,670.06	1,959.12
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,967.79	2,202.29
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,005.16	2,448.90
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,148.01	2,691.09
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,558.88	2,936.35
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,258.47	2,350.20
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	13,724.73	2,594.11
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	17,842.02	2,840.96
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	19,564.27	3,084.26
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,337.37	3,327.31
26 05 19 16-0182 HCFC, Solid <small>(26 05 19 16-0152)</small>		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,402.29	1,224.45
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	4,807.00	1,375.79
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,382.79	1,511.70
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,377.20	1,375.79
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,755.90	1,511.70
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,622.47	1,724.63
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,673.75	1,511.70
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,264.53	1,724.63
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,097.19	1,913.20
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor <small>(26 05 19 16-0152)</small>		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	3,859.62	1,224.45
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,307.92	1,375.79

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0195	MLF		2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,231.36	1,511.70
26 05 19 16-0196	MLF		2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,808.67	1,615.41
26 05 19 16-0197	MLF		2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,588.92	1,712.51
26 05 19 16-0198	MLF		3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,472.19	1,375.79
26 05 19 16-0199	MLF		3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,061.02	1,511.70
26 05 19 16-0200	MLF		3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,504.65	1,724.63
26 05 19 16-0201	MLF		3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	8,595.68	1,860.92
26 05 19 16-0202	MLF		3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,115.85	2,007.24
26 05 19 16-0203	MLF		3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	12,641.80	2,155.77
26 05 19 16-0204	MLF		3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	17,743.94	2,301.59
26 05 19 16-0205	MLF		4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,216.46	1,511.70
26 05 19 16-0206	MLF		4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,978.71	1,724.63
26 05 19 16-0207	MLF		4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,297.85	1,913.20
26 05 19 16-0208	MLF		4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	12,797.41	2,107.52
26 05 19 16-0209	MLF		4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	15,763.91	2,254.94
26 05 19 16-0210	MLF		4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	21,023.10	2,400.90
26 05 19 16-0211	MLF		4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	27,374.48	2,545.63
26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)					
Note: Color coded red.					
26 05 19 16-0213	MLF		#18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,027.14	930.58
26 05 19 16-0214	MLF		#18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,566.77	1,077.52
26 05 19 16-0215	MLF		#18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,695.74	1,224.45
26 05 19 16-0216	MLF		#18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,543.30	1,371.38
26 05 19 16-0217	MLF		#16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,577.98	1,077.52
26 05 19 16-0218	MLF		#16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,426.57	1,224.45
26 05 19 16-0219	MLF		#16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	6,866.51	1,371.38
26 05 19 16-0220	MLF		#16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,824.19	1,518.31
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)					
Note: Color coded red.					
26 05 19 16-0222	MLF		#14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,076.85	1,224.45
26 05 19 16-0223	MLF		#14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,350.59	1,371.38
26 05 19 16-0224	MLF		#14/6 With #14 Ground Type THHN FPLP Red Armored Cable	8,545.04	1,518.31
26 05 19 16-0225	MLF		#14/8 With #14 Ground Type THHN FPLP Red Armored Cable	9,937.06	1,665.25
26 05 19 16-0226	MLF		#12/2 With #12 Ground Type THHN FPLP Red Armored Cable	6,458.67	1,371.38
26 05 19 16-0227	MLF		#12/4 With #12 Ground Type THHN FPLP Red Armored Cable	7,952.66	1,518.31
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)					
Note: Color coded red.					
26 05 19 16-0229	MLF		#18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,394.19	930.58
26 05 19 16-0230	MLF		#18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,078.58	1,371.38
26 05 19 16-0231	MLF		#16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,425.26	1,077.52
26 05 19 16-0232	MLF		#16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,423.73	1,224.45
26 05 19 16-0233	MLF		#16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,990.60	1,518.31
26 05 19 16-0234	MLF		#14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,351.44	1,273.43
26 05 19 16-0235	MLF		#14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,879.16	1,469.34
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)					
26 05 19 16-0237	EA		3/4" Armored Cable Connector	7.48	2.69
			<i>For Work In Restricted Working Space, Add</i>	2.02	
			<i>For Elevated Installation >10' To 15', Add</i>	0.67	
			<i>For Elevated Installation >15' To 20', Add</i>	1.34	
			<i>For Elevated Installation >20' To 25', Add</i>	1.68	
			<i>For Elevated Installation >25' To 30', Add</i>	2.35	
			<i>For Elevated Installation >30' To 35', Add</i>	2.69	
			<i>For Elevated Installation >35' To 40', Add</i>	3.36	
			<i>For Elevated Installation >40', Add</i>	3.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.02	
26 05 19 16-0238	EA		1" Armored Cable Connector	9.97	3.58
			<i>For Work In Restricted Working Space, Add</i>	2.69	
			<i>For Elevated Installation >10' To 15', Add</i>	0.90	
			<i>For Elevated Installation >15' To 20', Add</i>	1.79	
			<i>For Elevated Installation >20' To 25', Add</i>	2.24	
			<i>For Elevated Installation >25' To 30', Add</i>	3.13	
			<i>For Elevated Installation >30' To 35', Add</i>	3.58	
			<i>For Elevated Installation >35' To 40', Add</i>	4.48	
			<i>For Elevated Installation >40', Add</i>	4.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0239 EA 1-1/4" Armored Cable Connector.....	12.54	4.48
For Work In Restricted Working Space, Add	3.36	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.24	
For Elevated Installation >20' To 25', Add	2.80	
For Elevated Installation >25' To 30', Add	3.92	
For Elevated Installation >30' To 35', Add	4.48	
For Elevated Installation >35' To 40', Add	5.60	
For Elevated Installation >40', Add	6.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.36	
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper <small>(26 05 19 16-0012)</small>		
26 05 19 16-0241 MLF #12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	945.80	271.65
26 05 19 16-0242 MLF #10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,195.58	319.43
26 05 19 16-0243 MLF #8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,724.77	434.46
26 05 19 16-0244 MLF #6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,417.50	520.05
26 05 19 16-0245 MLF #4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,283.47	606.31
26 05 19 16-0246 MLF #2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,780.35	781.07
26 05 19 16-0247 MLF #1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,765.85	869.02
26 05 19 16-0248 MLF 1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,713.61	979.11
26 05 19 16-0249 MLF 2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,675.16	1,086.19
26 05 19 16-0250 MLF 3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,247.85	1,219.67
26 05 19 16-0251 MLF 4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,132.93	1,345.54
26 05 19 16-0252 MLF 250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,186.41	1,479.14
26 05 19 16-0253 MLF 300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,333.15	1,616.76
26 05 19 16-0254 MLF 350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	17,653.49	1,737.92
26 05 19 16-0255 MLF 400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	19,886.29	1,931.04
26 05 19 16-0256 MLF 500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,881.70	2,128.07
26 05 19 16-0257 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	918.39	179.36
For EPR Insulation, Add	37.06	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	86.48	
26 05 19 16-0258 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,035.07	198.60
For EPR Insulation, Add	37.78	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	88.15	
26 05 19 16-0259 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,262.81	248.28
For EPR Insulation, Add	55.16	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	128.71	
26 05 19 16-0260 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,723.41	394.96
For EPR Insulation, Add	90.68	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	211.59	
26 05 19 16-0261 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,358.51	473.95
For EPR Insulation, Add	152.38	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	355.56	
26 05 19 16-0262 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,215.18	550.25
For EPR Insulation, Add	230.53	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	537.91	
26 05 19 16-0263 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,668.33	629.80
For EPR Insulation, Add	264.94	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	618.19	
26 05 19 16-0264 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,621.96	709.35
For EPR Insulation, Add	374.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	873.64	
26 05 19 16-0265 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,722.27	790.03
For EPR Insulation, Add	505.90	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,180.43	
26 05 19 16-0266 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,897.49	891.28
For EPR Insulation, Add	631.84	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,474.28	
26 05 19 16-0267 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,315.80	988.40
For EPR Insulation, Add	794.23	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,853.21	
26 05 19 16-0268 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,973.18	1,103.42
For EPR Insulation, Add	992.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,315.81	
26 05 19 16-0269 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,248.36	1,226.83
For EPR Insulation, Add	1,133.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,644.64	
26 05 19 16-0270 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,979.84	1,345.54
For EPR Insulation, Add	1,192.79	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,783.18	
26 05 19 16-0271 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,131.22	1,479.14
For EPR Insulation, Add	1,465.15	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,418.68	
26 05 19 16-0272 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,761.52	1,568.08
For EPR Insulation, Add	1,659.35	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,871.81	
26 05 19 16-0273 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	17,656.40	1,752.58
For EPR Insulation, Add	1,893.23	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,417.54	
26 05 19 16-0274 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,170.50	1,949.17
For EPR Insulation, Add	2,220.00	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,179.99	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0275	MLF		600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	23,610.46 2,668.86 6,227.34	2,027.94
26 05 19 16-0276	MLF		750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	38,262.87 4,766.02 11,120.72	2,106.59
26 05 19 16-0277	MLF		1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	48,161.88 6,183.74 14,428.74	2,250.92
26 05 19 16-0278	MLF		#16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,561.69	402.57
26 05 19 16-0279	MLF		#14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,942.83	447.55
26 05 19 16-0280	MLF		#12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,434.02	537.50
26 05 19 16-0281	MLF		#10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,883.87	626.34
26 05 19 16-0282	MLF		#8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,249.58	670.65
26 05 19 16-0283	MLF		#18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	528.21	223.77
26 05 19 16-0284	MLF		#16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	658.70	246.15
26 05 19 16-0285	MLF		#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	677.24	179.47
26 05 19 16-0286	MLF		#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	839.87	213.93
26 05 19 16-0287	MLF		#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,036.43	269.08
26 05 19 16-0288	MLF		#8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,447.73	354.68
26 05 19 16-0289	MLF		#6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,959.49	428.29
26 05 19 16-0290	MLF		#4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,577.62	506.17
26 05 19 16-0291	MLF		#3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,076.40	572.97
26 05 19 16-0292	MLF		#2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,669.52	641.67
26 05 19 16-0293	MLF		#1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,361.02	724.13
26 05 19 16-0294	MLF		1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,072.57	792.94
26 05 19 16-0295	MLF		2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,749.35	876.29
26 05 19 16-0296	MLF		3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,801.46	926.86
26 05 19 16-0297	MLF		4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,088.57	1,042.78
26 05 19 16-0298	MLF		250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,479.06	1,109.35
26 05 19 16-0299	MLF		300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,926.84	1,256.37
26 05 19 16-0300	MLF		350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,481.23	1,390.40
26 05 19 16-0301	MLF		400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,981.84	1,428.45
26 05 19 16-0302	MLF		500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,564.76	1,511.25
26 05 19 16-0303	MLF		600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	20,490.50	1,778.43
26 05 19 16-0304	MLF		750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	31,231.05	2,106.59
26 05 19 16-0305	MLF		1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	37,395.64	2,543.39
26 05 19 16-0306	MLF		#16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,800.54	537.50
26 05 19 16-0307	MLF		#14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,111.56	626.34
26 05 19 16-0308	MLF		#12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,605.89	716.63
26 05 19 16-0309	MLF		#10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,690.27	805.25
26 05 19 16-0310	MLF		#8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,315.52	895.08
26 05 19 16-0311	MLF		#6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,784.59	983.70

26 05 19 16-0312 **Non-Metallic Sheathed Cable** (26 05 19 16-0012)

26 05 19 16-0313 **Indoor Installation** (26 05 19 16-0312)

Note: For NM, NM-B, NMC-B and NMS-B.

26 05 19 16-0314	MLF		#14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,087.39	850.23
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	318.83	
26 05 19 16-0315	MLF		#14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,892.21	1,029.35
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	386.02	
26 05 19 16-0316	MLF		#14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,923.01	1,138.99
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	427.13	
26 05 19 16-0317	MLF		#12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,954.05	966.69
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	344.05	
26 05 19 16-0318	MLF		#12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,822.54	1,073.88
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	402.72	
26 05 19 16-0319	MLF		#12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,851.29	1,199.42
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	449.78	
26 05 19 16-0320	MLF		#10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,977.02	1,074.44
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	402.93	
26 05 19 16-0321	MLF		#10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	8,131.89	1,253.35
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	470.00	
26 05 19 16-0322	MLF		#10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,728.05	1,432.14
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	537.05	
26 05 19 16-0323	MLF		#8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,793.96	1,286.69
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	458.17	
26 05 19 16-0324	MLF		#8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	12,554.25	1,555.21
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	553.84	
26 05 19 16-0325	MLF		#6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	12,953.68	1,465.71
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	520.27	
26 05 19 16-0326	MLF		#6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	17,390.95	1,767.80
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	629.36	
26 05 19 16-0327	MLF		#4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	41,314.93	1,946.82
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	692.29	
26 05 19 16-0328	MLF		#2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	48,275.62	2,114.64
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	755.23	

26 05 19 16-0329 **Direct Burial Cable** (26 05 19 16-0312)

Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0330 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,506.82	
26 05 19 16-0331 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,258.35	
26 05 19 16-0332 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,173.63	
26 05 19 16-0333 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,033.29	
26 05 19 16-0334 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,433.25	
26 05 19 16-0335 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,874.67	
26 05 19 16-0336 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	5,218.48	
26 05 19 16-0337 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,655.09	
26 05 19 16-0338 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,553.28	
26 05 19 16-0339 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	8,574.77	
26 05 19 16-0340 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0341 MLF 12-12-12 Cable SEU Copper	3,257.42	1,077.88
26 05 19 16-0342 MLF 10-10-10 Cable SEU Copper	4,067.17	1,224.45
26 05 19 16-0343 MLF 8-8-8 Cable SEU Copper	5,035.99	1,371.14
26 05 19 16-0344 MLF 6-6-8 Cable SEU Copper	6,051.89	1,469.95
26 05 19 16-0345 MLF 6-6-6 Cable SEU Copper	6,500.23	1,519.18
26 05 19 16-0346 MLF 4-4-6 Cable SEU Copper	7,894.46	1,665.86
26 05 19 16-0347 MLF 4-4-4 Cable SEU Copper	8,493.75	1,714.96
26 05 19 16-0348 MLF 3-3-5 Cable SEU Copper	9,868.38	1,860.92
26 05 19 16-0349 MLF 3-3-3 Cable SEU Copper	10,479.22	1,959.12
26 05 19 16-0350 MLF 2-2-4 Cable SEU Copper	11,189.24	2,057.93
26 05 19 16-0351 MLF 2-2-2 Cable SEU Copper	11,956.05	2,155.77
26 05 19 16-0352 MLF 1-1-1 Cable SEU Copper	14,606.00	2,448.90
26 05 19 16-0353 MLF 1/0-1/0-1/0 Cable SEU Copper	17,356.82	2,745.46
26 05 19 16-0354 MLF 2/0-2/0-2/0 Cable SEU Copper	20,868.93	3,092.10
26 05 19 16-0355 MLF 3/0-3/0-3/0 Cable SEU Copper	25,065.95	3,439.48
26 05 19 16-0356 MLF 4/0-4/0-4/0 Cable SEU Copper	28,011.77	3,838.40
26 05 19 16-0357 SER Cable Copper, 4 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0358 MLF 6-6-6-6 Cable SER Copper	10,362.21	1,764.31
26 05 19 16-0359 MLF 4-4-4-6 Cable SER Copper	11,362.39	1,910.26
26 05 19 16-0360 MLF 3-3-3-5 Cable SER Copper	14,077.63	2,155.77
26 05 19 16-0361 MLF 2-2-2-4 Cable SER Copper	16,114.64	2,350.20
26 05 19 16-0362 MLF 1-1-1-3 Cable SER Copper	18,781.50	2,691.09
26 05 19 16-0363 MLF 1/0-1/0-1/0-2 Cable SER Copper	22,872.18	3,084.26
26 05 19 16-0364 MLF 2/0-2/0-2/0-1 Cable SER Copper	28,648.86	3,327.31
26 05 19 16-0365 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	33,089.14	3,721.71
26 05 19 16-0366 Control Tray Cable, Low Voltage <small>(26 05 19 16-0011)</small>		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0367 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable	1,103.31	542.76
<i>For Work In Restricted Working Space, Add</i>		
	271.38	
26 05 19 16-0368 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable	1,267.38	607.14
<i>For Work In Restricted Working Space, Add</i>		
	303.57	
26 05 19 16-0369 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable	1,319.43	607.09
<i>For Work In Restricted Working Space, Add</i>		
	303.57	
26 05 19 16-0370 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable	1,652.35	761.47
<i>For Work In Restricted Working Space, Add</i>		
	380.74	
26 05 19 16-0371 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable	2,071.70	927.93
<i>For Work In Restricted Working Space, Add</i>		
	463.96	
26 05 19 16-0372 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable	2,353.57	1,020.40
<i>For Work In Restricted Working Space, Add</i>		
	510.20	
26 05 19 16-0373 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable	2,784.01	1,159.43
<i>For Work In Restricted Working Space, Add</i>		
	579.72	
26 05 19 16-0374 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable	3,506.87	1,417.14
<i>For Work In Restricted Working Space, Add</i>		
	708.58	
26 05 19 16-0375 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable	3,986.64	1,546.04
<i>For Work In Restricted Working Space, Add</i>		
	773.02	
26 05 19 16-0376 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable	4,653.86	1,594.37
<i>For Work In Restricted Working Space, Add</i>		
	797.19	
26 05 19 16-0377 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable	5,718.38	1,991.79
<i>For Work In Restricted Working Space, Add</i>		
	995.90	
26 05 19 16-0378 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable	6,841.38	2,327.79
<i>For Work In Restricted Working Space, Add</i>		
	1,163.90	
26 05 19 16-0379 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable	1,200.54	571.74
<i>For Work In Restricted Working Space, Add</i>		
	285.65	
26 05 19 16-0380 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable	1,384.52	639.09
<i>For Work In Restricted Working Space, Add</i>		
	319.55	
26 05 19 16-0381 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable	1,610.68	735.76
<i>For Work In Restricted Working Space, Add</i>		
	367.88	
26 05 19 16-0382 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable	1,814.95	801.55
<i>For Work In Restricted Working Space, Add</i>		
	400.78	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0383	MLF		7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,284.39	976.76
			<i>For Work In Restricted Working Space, Add</i>	<i>488.38</i>	
26 05 19 16-0384	MLF		9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,606.31	1,074.11
			<i>For Work In Restricted Working Space, Add</i>	<i>537.05</i>	
26 05 19 16-0385	MLF		12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,098.61	1,220.45
			<i>For Work In Restricted Working Space, Add</i>	<i>610.23</i>	
26 05 19 16-0386	MLF		15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,917.29	1,491.66
			<i>For Work In Restricted Working Space, Add</i>	<i>745.83</i>	
26 05 19 16-0387	MLF		19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,474.49	1,627.27
			<i>For Work In Restricted Working Space, Add</i>	<i>813.64</i>	
26 05 19 16-0388	MLF		25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,292.86	1,678.29
			<i>For Work In Restricted Working Space, Add</i>	<i>839.15</i>	
26 05 19 16-0389	MLF		30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,492.59	2,096.51
			<i>For Work In Restricted Working Space, Add</i>	<i>1,048.26</i>	
26 05 19 16-0390	MLF		37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	7,786.00	2,450.30
			<i>For Work In Restricted Working Space, Add</i>	<i>1,225.15</i>	
26 05 19 16-0391	MLF		2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,296.28	596.80
			<i>For Work In Restricted Working Space, Add</i>	<i>298.40</i>	
26 05 19 16-0392	MLF		3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,538.75	671.31
			<i>For Work In Restricted Working Space, Add</i>	<i>335.66</i>	
26 05 19 16-0393	MLF		4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,799.28	767.31
			<i>For Work In Restricted Working Space, Add</i>	<i>383.66</i>	
26 05 19 16-0394	MLF		5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,016.02	826.39
			<i>For Work In Restricted Working Space, Add</i>	<i>413.19</i>	
26 05 19 16-0395	MLF		7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,664.17	1,013.02
			<i>For Work In Restricted Working Space, Add</i>	<i>506.51</i>	
26 05 19 16-0396	MLF		9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,059.77	1,118.86
			<i>For Work In Restricted Working Space, Add</i>	<i>559.54</i>	
26 05 19 16-0397	MLF		12 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,725.17	1,248.65
			<i>For Work In Restricted Working Space, Add</i>	<i>624.32</i>	
26 05 19 16-0398	MLF		15 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,449.55	1,491.44
			<i>For Work In Restricted Working Space, Add</i>	<i>745.83</i>	
26 05 19 16-0399	MLF		19 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,335.11	1,733.11
			<i>For Work In Restricted Working Space, Add</i>	<i>866.33</i>	
26 05 19 16-0400	MLF		25 Conductor #14 AWG, Stranded, Type TC Control Cable.....	6,618.71	2,026.25
			<i>For Work In Restricted Working Space, Add</i>	<i>1,013.35</i>	
26 05 19 16-0401	MLF		30 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,671.83	2,264.35
			<i>For Work In Restricted Working Space, Add</i>	<i>1,132.17</i>	
26 05 19 16-0402	MLF		37 Conductor #14 AWG, Stranded, Type TC Control Cable.....	9,223.35	2,646.33
			<i>For Work In Restricted Working Space, Add</i>	<i>1,323.16</i>	
26 05 19 16-0403	MLF		2 Conductor #12 AWG, Stranded, Type TC Control Cable.....	1,496.88	639.09
			<i>For Work In Restricted Working Space, Add</i>	<i>319.55</i>	
26 05 19 16-0404	MLF		3 Conductor #12 AWG, Stranded, Type TC Control Cable.....	1,775.47	707.12
			<i>For Work In Restricted Working Space, Add</i>	<i>353.45</i>	
26 05 19 16-0405	MLF		4 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,148.53	813.64
			<i>For Work In Restricted Working Space, Add</i>	<i>406.82</i>	
26 05 19 16-0406	MLF		5 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,419.14	866.00
			<i>For Work In Restricted Working Space, Add</i>	<i>433.00</i>	
26 05 19 16-0407	MLF		7 Conductor #12 AWG, Stranded, Type TC Control Cable.....	3,163.83	1,032.48
			<i>For Work In Restricted Working Space, Add</i>	<i>516.24</i>	
26 05 19 16-0408	MLF		9 Conductor #12 AWG, Stranded, Type TC Control Cable.....	3,891.09	1,220.45
			<i>For Work In Restricted Working Space, Add</i>	<i>610.23</i>	
26 05 19 16-0409	MLF		12 Conductor #12 AWG, Stranded, Type TC Control Cable.....	4,707.69	1,376.87
			<i>For Work In Restricted Working Space, Add</i>	<i>688.43</i>	
26 05 19 16-0410	MLF		15 Conductor #12 AWG, Stranded, Type TC Control Cable.....	5,589.68	1,579.61
			<i>For Work In Restricted Working Space, Add</i>	<i>789.80</i>	
26 05 19 16-0411	MLF		19 Conductor #12 AWG, Stranded, Type TC Control Cable.....	6,591.54	1,790.40
			<i>For Work In Restricted Working Space, Add</i>	<i>895.20</i>	
26 05 19 16-0412	MLF		25 Conductor #12 AWG, Stranded, Type TC Control Cable.....	8,396.11	2,092.49
			<i>For Work In Restricted Working Space, Add</i>	<i>1,046.25</i>	
26 05 19 16-0413	MLF		30 Conductor #12 AWG, Stranded, Type TC Control Cable.....	9,727.99	2,445.60
			<i>For Work In Restricted Working Space, Add</i>	<i>1,222.80</i>	
26 05 19 16-0414	MLF		37 Conductor #12 AWG, Stranded, Type TC Control Cable.....	11,742.68	2,858.46
			<i>For Work In Restricted Working Space, Add</i>	<i>1,429.23</i>	
26 05 19 16-0415	MLF		2 Conductor #10 AWG, Stranded, Type TC Control Cable.....	1,763.49	671.31
			<i>For Work In Restricted Working Space, Add</i>	<i>335.66</i>	
26 05 19 16-0416	MLF		3 Conductor #10 AWG, Stranded, Type TC Control Cable.....	2,178.42	736.21
			<i>For Work In Restricted Working Space, Add</i>	<i>367.88</i>	
26 05 19 16-0417	MLF		4 Conductor #10 AWG, Stranded, Type TC Control Cable.....	2,640.51	839.14
			<i>For Work In Restricted Working Space, Add</i>	<i>419.57</i>	
26 05 19 16-0418	MLF		5 Conductor #10 AWG, Stranded, Type TC Control Cable.....	3,054.81	910.30
			<i>For Work In Restricted Working Space, Add</i>	<i>455.15</i>	
26 05 19 16-0419	MLF		7 Conductor #10 AWG, Stranded, Type TC Control Cable.....	4,116.14	1,142.58
			<i>For Work In Restricted Working Space, Add</i>	<i>571.29</i>	
26 05 19 16-0420	MLF		9 Conductor #10 AWG, Stranded, Type TC Control Cable.....	4,863.70	1,278.85
			<i>For Work In Restricted Working Space, Add</i>	<i>639.43</i>	
26 05 19 16-0421	MLF		12 Conductor #10 AWG, Stranded, Type TC Control Cable.....	5,667.83	1,491.66
			<i>For Work In Restricted Working Space, Add</i>	<i>745.83</i>	
26 05 19 16-0422	MLF		15 Conductor #10 AWG, Stranded, Type TC Control Cable.....	6,687.12	1,705.81
			<i>For Work In Restricted Working Space, Add</i>	<i>852.91</i>	
26 05 19 16-0423	MLF		19 Conductor #10 AWG, Stranded, Type TC Control Cable.....	7,912.12	1,933.39
			<i>For Work In Restricted Working Space, Add</i>	<i>966.70</i>	
26 05 19 16-0424	MLF		25 Conductor #10 AWG, Stranded, Type TC Control Cable.....	10,147.29	2,259.65
			<i>For Work In Restricted Working Space, Add</i>	<i>1,129.82</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0425 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	11,749.17 1,320.48	2,640.96
26 05 19 16-0426 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	14,217.78 1,543.69	3,087.38
26 05 19 16-0427 ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0428 ACSR Cable <small>(26 05 19 16-0427)</small>		
26 05 19 16-0429 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,087.01	561.51
26 05 19 16-0430 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,266.06	583.05
26 05 19 16-0431 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,536.86	605.50
26 05 19 16-0432 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,715.87	627.42
26 05 19 16-0433 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,207.73	648.70
26 05 19 16-0434 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,811.76	735.36
26 05 19 16-0435 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,519.39	820.08
26 05 19 16-0436 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	5,333.12	905.97
26 05 19 16-0437 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	5,872.94	1,164.28
26 05 19 16-0438 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	6,639.78	1,335.54
26 05 19 16-0439 All Aluminum Conductors <small>(26 05 19 16-0427)</small>		
26 05 19 16-0440 MLF 795.0 ACSR Conductor Aluminum	42,533.83	11,017.09
26 05 19 16-0441 Single Conductor Installed On Poles <small>(26 05 19 16-0011)</small>		
26 05 19 16-0442 Bare Stranded Conductor <small>(26 05 19 16-0441)</small>		
26 05 19 16-0443 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,387.94	475.75
26 05 19 16-0444 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,601.97	518.56
26 05 19 16-0445 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,817.41	561.90
26 05 19 16-0446 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,174.88	605.50
26 05 19 16-0447 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,590.34	649.22
26 05 19 16-0448 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,615.81	778.70
26 05 19 16-0449 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,136.48	864.97
26 05 19 16-0450 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,697.20	949.69
26 05 19 16-0451 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	6,207.80	1,126.40
26 05 19 16-0452 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,488.40	1,295.05
26 05 19 16-0453 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,085.89	1,467.74
26 05 19 16-0454 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,155.45	1,729.81
26 05 19 16-0455 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,420.32	1,820.89
26 05 19 16-0456 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,781.72	1,906.90
26 05 19 16-0457 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	14,048.91	1,985.14
26 05 19 16-0458 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,226.16	2,069.86
26 05 19 16-0459 Insulated Stranded Conductor <small>(26 05 19 16-0441)</small>		
26 05 19 16-0460 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,476.57	475.75
26 05 19 16-0461 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,716.34	518.56
26 05 19 16-0462 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,043.17	561.90
26 05 19 16-0463 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,217.61	605.50
26 05 19 16-0464 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,655.54	649.22
26 05 19 16-0465 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,521.65	778.70
26 05 19 16-0466 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,127.08	864.97
26 05 19 16-0467 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,828.29	949.69
26 05 19 16-0468 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,805.21	1,126.40
26 05 19 16-0469 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,927.23	1,295.05
26 05 19 16-0470 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,129.67	1,467.74
26 05 19 16-0471 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,887.59	1,729.81
26 05 19 16-0472 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,129.32	1,820.89
26 05 19 16-0473 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,149.25	1,906.90
26 05 19 16-0474 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,524.51	1,985.14
26 05 19 16-0475 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,110.78	2,069.86
26 05 19 16-0476 Bare Solid Conductor <small>(26 05 19 16-0441)</small>		
26 05 19 16-0477 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,387.94	475.75
26 05 19 16-0478 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,817.41	561.90
26 05 19 16-0479 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,174.88	605.50
26 05 19 16-0480 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,563.40	649.22
26 05 19 16-0481 Multi-Conductor Cords, Cables And Associated Equipment <small>(26 05 19 16-0011)</small>		
26 05 19 16-0482 Multi-Conductor Cords <small>(26 05 19 16-0481)</small> Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0483 Multi-Conductor Type SOOW And SJOOW Cord <small>(26 05 19 16-0482)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0484	300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0483)</small>	
26 05 19 16-0485	#18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>	
26 05 19 16-0486 LF	2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.11 0.49
26 05 19 16-0487 LF	3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.15 0.49
26 05 19 16-0488 LF	4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.25 0.49
26 05 19 16-0489	#16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>	
26 05 19 16-0490 LF	2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.30 0.49
26 05 19 16-0491 LF	3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.37 0.49
26 05 19 16-0492 LF	4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.46 0.49
26 05 19 16-0493	#14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>	
26 05 19 16-0494 LF	2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.42 0.49
26 05 19 16-0495 LF	3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.52 0.49
26 05 19 16-0496 LF	4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.72 0.49
26 05 19 16-0497	#12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>	
26 05 19 16-0498 LF	2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.59 0.49
26 05 19 16-0499 LF	3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.71 0.49
26 05 19 16-0500 LF	4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.89 0.49
26 05 19 16-0501	#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>	
26 05 19 16-0502 LF	2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.00 0.61
26 05 19 16-0503 LF	3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.08 0.61
26 05 19 16-0504 LF	4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.21 0.61
26 05 19 16-0505	600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0483)</small>	
26 05 19 16-0506	#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>	
26 05 19 16-0507 LF	2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.15 0.49
26 05 19 16-0508 LF	3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.22 0.49
26 05 19 16-0509 LF	4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.32 0.49
26 05 19 16-0510 LF	5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.16 0.66
26 05 19 16-0511 LF	6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.34 0.68
26 05 19 16-0512 LF	7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.47 0.70
26 05 19 16-0513 LF	8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.69 0.71
26 05 19 16-0514 LF	10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.06 0.75
26 05 19 16-0515 LF	12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44 0.77
26 05 19 16-0516 LF	14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.42 0.79
26 05 19 16-0517 LF	16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.50 0.81
26 05 19 16-0518 LF	18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.62 0.82
26 05 19 16-0519 LF	20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.10 0.84
26 05 19 16-0520 LF	24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.33 0.86
26 05 19 16-0521 LF	30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.62 0.92
26 05 19 16-0522	#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>	
26 05 19 16-0523 LF	2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.36 0.49
26 05 19 16-0524 LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.43 0.49
26 05 19 16-0525 LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.55 0.49
26 05 19 16-0526 LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.25 0.66
26 05 19 16-0527 LF	6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.45 0.68
26 05 19 16-0528 LF	7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.65 0.70
26 05 19 16-0529 LF	8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.91 0.71
26 05 19 16-0530 LF	9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.02 0.73
26 05 19 16-0531 LF	10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.32 0.75
26 05 19 16-0532 LF	12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.82 0.77
26 05 19 16-0533 LF	14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.08 0.79
26 05 19 16-0534 LF	16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.57 0.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0535 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.22	0.82
26 05 19 16-0536 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.82	0.84
26 05 19 16-0537 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.95	0.86
26 05 19 16-0538 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.60	0.88
26 05 19 16-0539 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.81	0.92
26 05 19 16-0540 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0541 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.54	0.49
26 05 19 16-0542 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.61	0.49
26 05 19 16-0543 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.79	0.49
26 05 19 16-0544 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.81	0.66
26 05 19 16-0545 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.31	0.68
26 05 19 16-0546 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.49	0.70
26 05 19 16-0547 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.89	0.71
26 05 19 16-0548 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.16	0.73
26 05 19 16-0549 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.61	0.75
26 05 19 16-0550 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.05	0.77
26 05 19 16-0551 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.54	0.79
26 05 19 16-0552 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.59	0.81
26 05 19 16-0553 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.36	0.84
26 05 19 16-0554 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.61	0.86
26 05 19 16-0555 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.14	0.92
26 05 19 16-0556 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0557 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.72	0.49
26 05 19 16-0558 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.86	0.49
26 05 19 16-0559 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.00	0.49
26 05 19 16-0560 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.17	0.66
26 05 19 16-0561 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.63	0.68
26 05 19 16-0562 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.10	0.70
26 05 19 16-0563 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.62	0.71
26 05 19 16-0564 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.98	0.73
26 05 19 16-0565 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.60	0.75
26 05 19 16-0566 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.33	0.77
26 05 19 16-0567 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.01	0.79
26 05 19 16-0568 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.69	0.81
26 05 19 16-0569 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.02	0.82
26 05 19 16-0570 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.19	0.84
26 05 19 16-0571 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.39	0.86
26 05 19 16-0572 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.59	0.88
26 05 19 16-0573 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.99	0.90
26 05 19 16-0574 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.42	0.92
26 05 19 16-0575 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0576 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.96	0.61
26 05 19 16-0577 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.08	0.61
26 05 19 16-0578 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.20	0.61
26 05 19 16-0579 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.79	0.66
26 05 19 16-0580 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.37	0.68
26 05 19 16-0581 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.08	0.70
26 05 19 16-0582 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.47	0.75
26 05 19 16-0583 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.37	0.77
26 05 19 16-0584 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.30	0.81

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0585 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.37	0.84
26 05 19 16-0586 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0587 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.73	0.73
26 05 19 16-0588 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.03	0.85
26 05 19 16-0589 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.34	0.85
26 05 19 16-0590 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0591 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.18	0.85
26 05 19 16-0592 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.23	0.98
26 05 19 16-0593 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.48	1.22
26 05 19 16-0594 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0595 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.16	1.22
26 05 19 16-0596 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.92	1.34
26 05 19 16-0597 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.69	1.46
26 05 19 16-0598 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0599 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.65	2.45
26 05 19 16-0600 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.06	3.06
26 05 19 16-0601 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.68	4.04
26 05 19 16-0602 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0483)		
26 05 19 16-0603 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0604 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.46	0.49
26 05 19 16-0605 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.57	0.49
26 05 19 16-0606 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.79	0.49
26 05 19 16-0607 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0608 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.53	0.49
26 05 19 16-0609 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.71	0.49
26 05 19 16-0610 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.79	0.49
26 05 19 16-0611 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0612 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.98	0.49
26 05 19 16-0613 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.72	0.49
26 05 19 16-0614 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.42	0.61
26 05 19 16-0615 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0483)		
26 05 19 16-0616 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)		
26 05 19 16-0617 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	1.93	0.49
26 05 19 16-0618 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.24	0.49
26 05 19 16-0619 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.56	0.49
26 05 19 16-0620 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)		
26 05 19 16-0621 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.04	0.49
26 05 19 16-0622 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.35	0.49
26 05 19 16-0623 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.86	0.49
26 05 19 16-0624 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.09	0.61



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0625				#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0626	LF			3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.43	0.49
26 05 19 16-0627	LF			4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.84	0.49
26 05 19 16-0628	LF			5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.16	0.61
26 05 19 16-0629				#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0630	LF			3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.82	0.49
26 05 19 16-0631	LF			4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.18	0.49
26 05 19 16-0632	LF			5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.53	0.61
26 05 19 16-0633				#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0634	LF			3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.20	0.61
26 05 19 16-0635	LF			4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.53	0.61
26 05 19 16-0636	LF			5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.86	0.61
26 05 19 16-0637				Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0482)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0638				600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0637)</small>		
26 05 19 16-0639				#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0640	LF			3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.54	0.49
26 05 19 16-0641	LF			4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.67	0.49
26 05 19 16-0642	LF			5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.38	0.61
26 05 19 16-0643				#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0644	LF			3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.92	0.49
26 05 19 16-0645	LF			4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.16	0.49
26 05 19 16-0646	LF			5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.98	0.61
26 05 19 16-0647				#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0648	LF			3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.31	0.49
26 05 19 16-0649	LF			4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.61	0.49
26 05 19 16-0650	LF			5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.23	0.61
26 05 19 16-0651				#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0652	LF			3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.86	0.61
26 05 19 16-0653	LF			4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.23	0.61
26 05 19 16-0654	LF			5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.45	0.61
26 05 19 16-0655				Multi-Conductor Type W Cord <small>(26 05 19 16-0482)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0656				2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0655)</small>		
26 05 19 16-0657				#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0658	LF			3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.04	0.73
26 05 19 16-0659	LF			4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.32	0.85
26 05 19 16-0660	LF			5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.05	0.85
26 05 19 16-0661				#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0662	LF			3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.35	0.85
26 05 19 16-0663	LF			4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.17	0.98
26 05 19 16-0664	LF			5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.40	1.22
26 05 19 16-0665				#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0666	LF			3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.71	0.85
26 05 19 16-0667	LF			4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.74	0.98
26 05 19 16-0668	LF			5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.61	1.22

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0669			Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0481)		
26 05 19 16-0670			Cord Grips (26 05 19 16-0669)		
26 05 19 16-0671	EA		Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	77.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.26	
26 05 19 16-0672	EA		Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	78.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.26	
26 05 19 16-0673			Cable Reels (26 05 19 16-0669)		
			Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0481 for cords.		
26 05 19 16-0674	EA		30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	680.64	61.22
26 05 19 16-0675	EA		50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,879.97	61.22
26 05 19 16-0676	EA		50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,405.88	61.22
26 05 19 16-0677			Extension Cords For Cable Reel (26 05 19 16-0669)		
26 05 19 16-0678	EA		100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	206.50	
26 05 19 16-0679	EA		100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	293.96	
26 05 19 16-0680			Plugs And Connector Bodies (26 05 19 16-0669)		
			Note: Up to 277 volt		
26 05 19 16-0681			NEMA Twist-Lock Plugs (26 05 19 16-0680)		
26 05 19 16-0682	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	81.61	
26 05 19 16-0683	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	83.18	
26 05 19 16-0684	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	76.58	
26 05 19 16-0685	EA		20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	81.41	
26 05 19 16-0686	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	104.09	
26 05 19 16-0687	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	110.24	
26 05 19 16-0688	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	116.25	
26 05 19 16-0689	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	105.01	
26 05 19 16-0690	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	119.78	
26 05 19 16-0691	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	122.65	
26 05 19 16-0692	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	126.31	
26 05 19 16-0693			NEMA Twist-Lock Connector Bodies (26 05 19 16-0680)		
26 05 19 16-0694	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	86.05	
26 05 19 16-0695	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	91.61	
26 05 19 16-0696	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	79.91	
26 05 19 16-0697	EA		20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	105.01	
26 05 19 16-0698	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	121.22	
26 05 19 16-0699	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	129.06	
26 05 19 16-0700	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	155.46	
26 05 19 16-0701	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	148.80	
26 05 19 16-0702	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	181.87	
26 05 19 16-0703	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	190.62	
26 05 19 16-0704	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	181.08	
26 05 19 16-0705			Watertight Pin And Sleeve Plug (26 05 19 16-0680)		
26 05 19 16-0706	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	269.24	36.73
26 05 19 16-0707	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	272.08	36.73
26 05 19 16-0708	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	294.12	36.73
26 05 19 16-0709	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	294.83	40.40
26 05 19 16-0710	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	290.55	40.40
26 05 19 16-0711	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	291.82	40.40
26 05 19 16-0712	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	410.03	45.18
26 05 19 16-0713	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	399.38	45.18
26 05 19 16-0714	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	445.13	45.18
26 05 19 16-0715	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	437.65	49.59
26 05 19 16-0716	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	419.15	49.59
26 05 19 16-0717	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	431.88	49.59
26 05 19 16-0718	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	556.96	58.77
26 05 19 16-0719	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	567.10	58.77
26 05 19 16-0720	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	543.05	58.77
26 05 19 16-0721	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	618.35	65.38
26 05 19 16-0722	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	602.56	65.38
26 05 19 16-0723	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	609.39	65.38
26 05 19 16-0724	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	763.88	73.47
26 05 19 16-0725	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	803.06	73.47
26 05 19 16-0726	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	783.51	80.82
26 05 19 16-0727	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	770.14	80.82
26 05 19 16-0728	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	777.36	80.82



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 19 16-0729 Watertight Pin And Sleeve Connector <small>(26 05 19 16-0680)</small>			
26 05 19 16-0730	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	285.56	36.73
26 05 19 16-0731	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	287.53	36.73
26 05 19 16-0732	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	338.30	36.73
26 05 19 16-0733	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	335.97	40.40
26 05 19 16-0734	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	330.82	40.40
26 05 19 16-0735	EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	335.48	40.40
26 05 19 16-0736	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	419.79	45.18
26 05 19 16-0737	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	419.68	45.18
26 05 19 16-0738	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	437.19	45.18
26 05 19 16-0739	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	432.90	49.59
26 05 19 16-0740	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	436.50	49.59
26 05 19 16-0741	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	432.70	49.59
26 05 19 16-0742	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	657.03	58.77
26 05 19 16-0743	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	635.58	58.77
26 05 19 16-0744	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	622.80	58.77
26 05 19 16-0745	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	677.91	65.38
26 05 19 16-0746	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	696.55	65.38
26 05 19 16-0747	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	697.92	65.38
26 05 19 16-0748	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	873.65	73.47
26 05 19 16-0749	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	898.25	73.47
26 05 19 16-0750	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	970.73	80.82
26 05 19 16-0751	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	936.94	80.82
26 05 19 16-0752	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	948.46	80.82

26 05 19 16-0753 Accessories <small>(26 05 19 16-0669)</small>			
26 05 19 16-0754	EA 1/2" Straight Steel Cord Connector	62.76	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0755	EA 1/2" Straight Nylon Cord Connector	37.50	9.18
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 19 16-0756	EA 1/2" 90 Degree Steel Cord Connector	71.74	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0757	EA 1/2" 90 Degree Nylon Cord Connector	45.05	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0758	EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh	70.79	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0759	EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	123.10	18.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	
26 05 19 16-0760	EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh	44.32	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0761	EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	75.22	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0762	EA 3/4" Straight Steel Cord Connector	65.45	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0763	EA 3/4" Straight Nylon Cord Connector	38.85	9.18
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 19 16-0764	EA 3/4" 90 Degree Steel Cord Connector	80.15	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0765	EA 3/4" 90 Degree Nylon Cord Connector	49.26	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0766	EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh	79.74	18.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	
26 05 19 16-0767	EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	94.88	21.43
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.86	
26 05 19 16-0768	EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh	53.27	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0769	EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	64.36	18.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	
26 05 19 16-0770	EA 1" Straight Steel Cord Connector	82.73	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0771	EA 1" Straight Nylon Cord Connector	47.49	9.18
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 19 16-0772	EA 1" 90 Degree Steel Cord Connector	91.57	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0773	EA 1" 90 Degree Nylon Cord Connector	54.97	12.24
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 19 16-0774	EA 1" Straight Steel Cord Connector With Strain Relief Mesh	97.89	18.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	
26 05 19 16-0775	EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh	106.86	21.43
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.86	
26 05 19 16-0776	EA 1" Straight Nylon Cord Connector With Strain Relief Mesh	62.48	15.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 19 16-0777	EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	72.15	18.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	

26 05 23 Control-Voltage Electrical Power Cables (26 05)

26 05 23 00-0001	Cable For HVAC System Controls <small>(26 05 23)</small>
26 05 23 00-0002	Low Voltage Thermostat Cable To 300 Volt <small>(26 05 23 00-0001)</small>

Note: For surface or conduit installation.

26 Electrical**26 05 Common Work Results for Electrical****26 05 23 Control-Voltage Electrical Power Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0003	MLF		#20/2 Conductor, Low Volt Thermostat Cable	481.09	142.66
26 05 23 00-0004	MLF		#20/3 Conductor, Low Volt Thermostat Cable	548.31	150.27
26 05 23 00-0005	MLF		#20/4 Conductor, Low Volt Thermostat Cable	593.97	158.88
26 05 23 00-0006	MLF		#20/5 Conductor, Low Volt Thermostat Cable	709.81	165.59
26 05 23 00-0007	MLF		#20/6 Conductor, Low Volt Thermostat Cable	743.93	173.42
26 05 23 00-0008	MLF		#20/7 Conductor, Low Volt Thermostat Cable	818.04	180.64
26 05 23 00-0009	MLF		#20/8 Conductor, Low Volt Thermostat Cable	882.48	187.86
26 05 23 00-0010	MLF		#20/9 Conductor, Low Volt Thermostat Cable	957.47	195.36
26 05 23 00-0011	MLF		#20/10 Conductor, Low Volt Thermostat Cable	1,029.44	201.22
26 05 23 00-0012	MLF		#18/2 Conductor, Low Volt Thermostat Cable	521.56	142.66
26 05 23 00-0013	MLF		#18/3 Conductor, Low Volt Thermostat Cable	620.52	150.27
26 05 23 00-0014	MLF		#18/4 Conductor, Low Volt Thermostat Cable	708.53	158.88
26 05 23 00-0015	MLF		#18/5 Conductor, Low Volt Thermostat Cable	757.11	165.59
26 05 23 00-0016	MLF		#18/6 Conductor, Low Volt Thermostat Cable	838.93	173.42
26 05 23 00-0017	MLF		#18/7 Conductor, Low Volt Thermostat Cable	861.66	180.64
26 05 23 00-0018	MLF		#18/8 Conductor, Low Volt Thermostat Cable	949.05	187.86
26 05 23 00-0019	MLF		#18/9 Conductor, Low Volt Thermostat Cable	1,117.19	195.36
26 05 23 00-0020	MLF		#18/10 Conductor, Low Volt Thermostat Cable	1,226.44	201.22

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001			Conductors, Straps And Conduit Jumpers (26 05 26)		
26 05 26 00-0002			Single Conductor (26 05 26 00-0001)		
26 05 26 00-0003			Copper Bare Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0004	MLF		12 AWG Copper Bare Single Stranded Conductor	587.70	230.08
26 05 26 00-0005	MLF		10 AWG Copper Bare Single Stranded Conductor	763.09	230.08
26 05 26 00-0006	MLF		8 AWG Copper Bare Single Stranded Conductor	939.41	277.14
26 05 26 00-0007	MLF		6 AWG Copper Bare Single Stranded Conductor	1,265.18	277.14
26 05 26 00-0008	MLF		4 AWG Copper Bare Single Stranded Conductor	1,675.26	334.66
26 05 26 00-0009	MLF		2 AWG Copper Bare Single Stranded Conductor	2,593.46	334.66
26 05 26 00-0010	MLF		1 AWG Copper Bare Single Stranded Conductor	2,990.77	402.65
26 05 26 00-0011	MLF		1/0 AWG Copper Bare Single Stranded Conductor	3,504.49	402.65
26 05 26 00-0012	MLF		2/0 AWG Copper Bare Single Stranded Conductor	4,873.40	507.22
26 05 26 00-0013	MLF		3/0 AWG Copper Bare Single Stranded Conductor	5,989.55	507.22
26 05 26 00-0014	MLF		4/0 AWG Copper Bare Single Stranded Conductor	6,378.50	674.56
26 05 26 00-0015	MLF		250 MCM Copper Bare Single Stranded Conductor	8,149.66	674.56
26 05 26 00-0016	MLF		300 MCM Copper Bare Single Stranded Conductor	8,192.32	779.14
26 05 26 00-0017	MLF		350 MCM Copper Bare Single Stranded Conductor	10,974.27	779.14
26 05 26 00-0018	MLF		500 MCM Copper Bare Single Stranded Conductor	14,938.10	962.16
26 05 26 00-0019			Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020	MLF		12 AWG Copper Insulated Single Stranded Conductor	1,056.98	313.75
26 05 26 00-0021	MLF		10 AWG Copper Insulated Single Stranded Conductor	1,137.79	313.75
26 05 26 00-0022	MLF		8 AWG Copper Insulated Single Stranded Conductor	1,447.68	313.75
26 05 26 00-0023	MLF		6 AWG Copper Insulated Single Stranded Conductor	1,654.37	543.83
26 05 26 00-0024	MLF		4 AWG Copper Insulated Single Stranded Conductor	2,216.59	543.83
26 05 26 00-0025	MLF		2 AWG Copper Insulated Single Stranded Conductor	3,104.42	543.83
26 05 26 00-0026	MLF		1 AWG Copper Insulated Single Stranded Conductor	3,738.90	951.71
26 05 26 00-0027	MLF		1/0 AWG Copper Insulated Single Stranded Conductor	4,548.40	951.71
26 05 26 00-0028	MLF		2/0 AWG Copper Insulated Single Stranded Conductor	5,310.65	951.71
26 05 26 00-0029	MLF		3/0 AWG Copper Insulated Single Stranded Conductor	6,300.43	951.71
26 05 26 00-0030	MLF		4/0 AWG Copper Insulated Single Stranded Conductor	7,408.95	1,244.54
26 05 26 00-0031	MLF		250 MCM Copper Insulated Single Stranded Conductor	8,925.34	1,244.54
26 05 26 00-0032	MLF		300 MCM Copper Insulated Single Stranded Conductor	10,372.44	1,244.54
26 05 26 00-0033	MLF		350 MCM Copper Insulated Single Stranded Conductor	12,197.69	1,934.78
26 05 26 00-0034	MLF		500 MCM Copper Insulated Single Stranded Conductor	15,857.70	1,934.78
26 05 26 00-0035			Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036	MLF		12 AWG Copper Bare Single Solid Conductor	587.70	230.08
26 05 26 00-0037	MLF		10 AWG Copper Bare Single Solid Conductor	763.09	230.08
26 05 26 00-0038	MLF		8 AWG Copper Bare Single Solid Conductor	939.41	277.14
26 05 26 00-0039	MLF		6 AWG Copper Bare Single Solid Conductor	1,265.18	277.14
26 05 26 00-0040	MLF		4 AWG Copper Bare Single Solid Conductor	1,675.26	334.66
26 05 26 00-0041	MLF		2 AWG Copper Bare Single Solid Conductor	2,593.46	334.66
26 05 26 00-0042	MLF		1/0 AWG Copper Bare Single Solid Conductor	3,504.49	402.65
26 05 26 00-0043	MLF		4/0 AWG Copper Bare Single Solid Conductor	6,378.50	533.37
26 05 26 00-0044			Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045	MLF		8 AWG Aluminum Bare Single Stranded Conductor	788.03	277.14
26 05 26 00-0046	MLF		6 AWG Aluminum Bare Single Stranded Conductor	877.43	230.08
26 05 26 00-0047	MLF		4 AWG Aluminum Bare Single Stranded Conductor	1,016.82	334.66
26 05 26 00-0048	MLF		2 AWG Aluminum Bare Single Stranded Conductor	1,305.44	334.66
26 05 26 00-0049	MLF		1 AWG Aluminum Bare Single Stranded Conductor	1,542.43	402.65
26 05 26 00-0050	MLF		1/0 AWG Aluminum Bare Single Stranded Conductor	1,767.30	402.65
26 05 26 00-0051	MLF		2/0 AWG Aluminum Bare Single Stranded Conductor	2,027.69	507.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor.....	2,354.41	507.22
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	2,793.79	674.56
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	3,159.03	674.56
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	3,841.34	779.14
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	4,415.72	779.14
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	5,177.57	962.16
26 05 26 00-0058 Aluminum Bare Single Solid Conductors <small>(26 05 26 00-0002)</small>		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	788.03	277.14
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	877.43	277.14
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	1,016.82	334.66
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	1,305.44	334.66
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	1,500.22	533.37
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,767.30	533.37
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	1,923.13	507.22
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	2,143.88	507.22
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	2,793.79	674.56
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	3,159.03	674.56
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	3,841.34	779.14
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	4,415.72	779.14
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	5,177.57	962.16
26 05 26 00-0072 Aluminum Smooth Woven Conductors <small>(26 05 26 00-0002)</small>		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.94	0.84
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.24	0.93
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.86	1.06
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.88	1.09
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	4.07	1.14
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap <small>(26 05 26 00-0001)</small>		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	141.79	30.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.37</i>	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	244.69	36.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>22.04</i>	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	313.24	36.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>22.04</i>	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	380.85	36.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>22.04</i>	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	329.42	39.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>27.55</i>	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	428.04	39.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>27.55</i>	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	513.72	39.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>27.55</i>	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	428.81	50.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>30.31</i>	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	515.67	61.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>36.73</i>	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit <small>(26 05 26 00-0001)</small>		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	189.04	67.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>38.27</i>	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	232.90	67.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>47.10</i>	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	341.42	104.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>55.66</i>	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	504.95	104.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>68.03</i>	
26 05 26 00-0093 Ground Rods <small>(26 05 26)</small>		
26 05 26 00-0094 Copper-Clad Ground Rods <small>(26 05 26 00-0093)</small>		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	105.15	91.83
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	109.72	91.83
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	128.15	91.83
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	123.79	91.83
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	129.50	91.83
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	152.54	91.83
26 05 26 00-0101 Copper Grounding Shaft <small>(26 05 26 00-0093)</small>		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	353.59	91.83
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	440.07	91.83
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	683.46	91.83

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 26 00-0105		Ground Access Wells <small>(26 05 26 00-0093)</small>	
26 05 26 00-0106		Precast Ground Access Wells <small>(26 05 26 00-0105)</small>	
26 05 26 00-0107	EA	8" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	287.19
26 05 26 00-0108	EA	10" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	297.69
26 05 26 00-0109	EA	12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	866.45
26 05 26 00-0110	EA	18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	876.95
26 05 26 00-0111		Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>	
26 05 26 00-0112	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	565.19
26 05 26 00-0113	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	688.42
26 05 26 00-0114	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,514.61
26 05 26 00-0115	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	428.50
26 05 26 00-0116	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	518.43
26 05 26 00-0117	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,354.95
26 05 26 00-0118	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	246.36
26 05 26 00-0119	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	338.91
26 05 26 00-0120	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	403.57
26 05 26 00-0121	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	200.41
26 05 26 00-0122	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	312.49
26 05 26 00-0123	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	467.73
26 05 26 00-0124	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	645.28
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	448.20
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	482.18
26 05 26 00-0127	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	863.83
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	1,090.95
26 05 26 00-0129	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	480.19
26 05 26 00-0130	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	655.11
26 05 26 00-0131	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	647.40
26 05 26 00-0132		Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>	
26 05 26 00-0133	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	546.43
26 05 26 00-0134	EA	12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	599.55
26 05 26 00-0135	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	602.17
26 05 26 00-0136	EA	12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	660.63
26 05 26 00-0137	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	660.08
26 05 26 00-0138	EA	12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	724.37
26 05 26 00-0139	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	881.09
26 05 26 00-0140	EA	13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	968.77
26 05 26 00-0141		High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>	
26 05 26 00-0142	EA	9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	198.54
26 05 26 00-0143	EA	14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	276.89
26 05 26 00-0144		Clay Tile Ground Access Wells <small>(26 05 26 00-0105)</small>	
26 05 26 00-0145	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	313.88
26 05 26 00-0146	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	330.15
26 05 26 00-0147	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	100.40
26 05 26 00-0148		Ground Rod Clamps And Fittings <small>(26 05 26)</small>	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0149				Bronze Ground Rod Clamp (26 05 26 00-0148)		
			EA	1/2" Bronze Ground Rod Clamp	24.83	13.84
			EA	5/8" Bronze Ground Rod Clamp	25.98	13.84
			EA	3/4" Bronze Ground Rod Clamp	27.62	13.84
26 05 26 00-0153				Bronze Pipe Clamps (26 05 26 00-0148)		
			EA	1/2" To 1" Bronze Pipe Ground Clamps	32.78	23.02
			EA	1-1/4" To 2" Bronze Ground Clamps For Pipe	41.55	27.55
			EA	2-1/2" To 3" Bronze Ground Clamps For Pipe	60.93	32.21
			EA	2-1/2" To 4" Bronze Ground Clamps For Pipe	74.73	41.39
			EA	4" To 6" Bronze Ground Clamps For Pipe	114.04	59.76
26 05 26 00-0159				Grounding Fittings (26 05 26 00-0148)		
26 05 26 00-0160				Embedded Fittings (26 05 26 00-0159)		
			EA	Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	167.22	
			EA	Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	177.65	
			EA	Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	196.16	
			EA	#8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	162.12	
			EA	1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	194.24	
			EA	4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	227.88	
			EA	350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	256.89	
26 05 26 00-0168				Ground Rod Receptacle (26 05 26 00-0159)		
			EA	1/2" Ground Rod Receptacle	361.01	127.34
			EA	5/8" Ground Rod Receptacle	377.40	130.93
			EA	3/4" Ground Rod Receptacle	394.16	134.49
26 05 26 00-0172				Ground Kits For Circuit Breaker Panels (26 05 26 00-0159)		
			EA	14-8 AWG Copper Ground Kit	80.87	30.61
			EA	12-8 AWG Aluminum Ground Kit	87.62	30.61
			EA	14-4 AWG Copper Ground Kit	89.64	30.61
			EA	12-4 AWG Aluminum Ground Kit	106.09	30.61
26 05 26 00-0177				Insulated Grounding Bars (26 05 26 00-0148)		
			EA	1/2" x 4" x 10" Insulated Ground Bar	337.98	30.73
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.10	
			EA	Insulated Ground Bar SK 9560 1/2" x 4" x 20"	354.93	30.73
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.10	
26 05 26 00-0180				Ground Conductor Bonding (26 05 26)		
26 05 26 00-0181				Ground Conductor Bonding (26 05 26 00-0180)		
26 05 26 00-0182				Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0181)		
			EA	Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	142.31	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	#4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	154.56	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	166.80	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	240.27	
				Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187				Tee, Wye Or Cross Cadweld (26 05 26 00-0181)		
			EA	Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross	160.68	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	#4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	185.16	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	228.02	
				Note: Includes molds, materials and all necessary tools to make connections.		
			EA	250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross	276.99	
				Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0192				Grounding Equipment (26 05 26)		
26 05 26 00-0193				Special Grounding Equipment (26 05 26 00-0192)		
26 05 26 00-0194				Ground Reels And Ground Bus (26 05 26 00-0193)		
			EA	Ground Reel With 50' Of Galvanized Steel Cable	788.46	
26 05 26 00-0196				Copper Bars (26 05 26 00-0193)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0197	LF		1/4" x 2" Copper Bar	45.59	
26 05 26 00-0198			Phenolic Insulators (26 05 26 00-0193)		
26 05 26 00-0199	EA		2" x 2" x 1" Long Phenolic Insulators	32.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 26 00-0200			Grounding Studs (26 05 26 00-0193)		
26 05 26 00-0201	EA		Ball Grounding Stud	46.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.97	
26 05 26 00-0202			Equipment Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0203	EA		Switch Rating 30 Ground Bar Kit	36.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 26 00-0204	EA		Switch Rating 60 Ground Bar Kit	46.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 26 00-0205	EA		Switch Rating 100 Ground Bar Kit	54.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 26 00-0206	EA		Switch Rating 200 Ground Bar Kit	93.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.02	
26 05 26 00-0207			Panelboard Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0208	EA		Panelboard Ground Bar Kit	135.83	9.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 26 00-0209			Circuit Breaker Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0210	EA		3 Circuit, Ground Bar Kit	30.16	5.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 26 00-0211	EA		4 Circuit, Ground Bar Kit	29.62	5.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 26 00-0212	EA		7 Circuit, Ground Bar Kit	30.52	5.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 26 00-0213	EA		12 Circuit, Ground Bar Kit	34.61	6.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.25	
26 05 26 00-0214	EA		20 Circuit, Ground Bar Kit	39.42	6.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.98	
26 05 26 00-0215	EA		24 Circuit, Ground Bar Kit	43.49	7.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.71	
26 05 26 00-0216	EA		30 Circuit, Ground Bar Kit	48.62	8.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.82	
26 05 26 00-0217	EA		54 Circuit, Ground Bar Kit	56.23	10.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.28	
26 05 26 00-0218	EA		24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	61.81	7.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.71	
26 05 26 00-0219	EA		30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	68.39	8.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.82	
26 05 26 00-0220	EA		54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	76.19	10.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.28	
26 05 29 Hangers and Supports for Electrical Systems					
26 05 29 00-0001			Metal Framing Channel And Fittings (26 05 29)		
			See CSI section 05 43 00 00-0001 for additional unistrut fittings.		
26 05 29 00-0002			Metal Framing Channel (26 05 29 00-0001)		
			Note: Excludes fasteners and accessories.		
26 05 29 00-0003			14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004			14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	21.75	6.72
26 05 29 00-0006	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	24.49	6.72
26 05 29 00-0007	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	11.14	2.52
26 05 29 00-0008			14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	44.59	6.72
26 05 29 00-0010	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	49.90	6.72
26 05 29 00-0011	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	70.17	6.72
26 05 29 00-0012	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	80.79	6.72
26 05 29 00-0013	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	33.98	2.53
26 05 29 00-0014	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	39.29	2.53
26 05 29 00-0015			14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	67.52	6.72
26 05 29 00-0017	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	116.03	6.72



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 29 00-0018	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	56.91	2.53
26 05 29 00-0019				12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020				12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
	26 05 29 00-0021	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	23.23	6.72
	26 05 29 00-0022	EA		Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	22.73	6.72
	26 05 29 00-0023	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	22.40	6.72
	26 05 29 00-0024	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	27.46	6.72
	26 05 29 00-0025	EA		>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	26.45	6.72
	26 05 29 00-0026	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	25.80	6.72
	26 05 29 00-0027	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	12.62	2.52
	26 05 29 00-0028	LF		>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	12.12	2.52
	26 05 29 00-0029	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	11.79	2.52
26 05 29 00-0030				12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
	26 05 29 00-0031	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	51.66	6.72
	26 05 29 00-0032	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	60.82	6.72
	26 05 29 00-0033	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	84.31	6.72
	26 05 29 00-0034	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	102.63	6.72
	26 05 29 00-0035	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	41.05	2.52
	26 05 29 00-0036	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	50.21	2.52
26 05 29 00-0037				Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038				Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039				Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
	26 05 29 00-0040	LF		Steel Raceway Closure Strip, Unistrut Channel Fittings	6.30	0.61
	26 05 29 00-0041	EA		Steel End Cap, Unistrut Channel Fittings	5.07	1.54
26 05 29 00-0042				Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
	26 05 29 00-0043	EA		Stainless Steel End Cap For Unistrut Channel	16.78	1.54
26 05 29 00-0044				Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0045				Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
	26 05 29 00-0046	EA		2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	6.34	
	26 05 29 00-0047	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	6.30	
	26 05 29 00-0048	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	7.61	
26 05 29 00-0049				Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
	26 05 29 00-0050	EA		2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	24.78	
	26 05 29 00-0051	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	37.24	
	26 05 29 00-0052	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	47.78	
26 05 29 00-0053				90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0054				Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
	26 05 29 00-0055	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	6.15	
	26 05 29 00-0056	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	5.19	
	26 05 29 00-0057	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.77	
	26 05 29 00-0058	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.65	
26 05 29 00-0059				Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
	26 05 29 00-0060	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	13.86	
	26 05 29 00-0061	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	17.51	
	26 05 29 00-0062	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	14.74	
	26 05 29 00-0063	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	21.25	
	26 05 29 00-0064	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	19.36	
	26 05 29 00-0065	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	36.37	
	26 05 29 00-0066	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	20.39	
	26 05 29 00-0067	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	29.92	
26 05 29 00-0068				60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069				Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
	26 05 29 00-0070	EA		2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	12.43	
26 05 29 00-0071				U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0072			Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073	EA		3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	4.56	
26 05 29 00-0074	EA		5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	5.05	
26 05 29 00-0075			Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0076	EA		5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	29.70	
26 05 29 00-0077			Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0078			Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0079	EA		3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	12.75	
26 05 29 00-0080			Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0081	EA		3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	58.50	
26 05 29 00-0082			Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037)		
			Note: Includes hex screw and nut.		
26 05 29 00-0083			Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
			Note: Includes hex screw and nut.		
26 05 29 00-0084	EA		1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.09	1.84
26 05 29 00-0085	EA		3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.11	1.84
26 05 29 00-0086	EA		1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.22	1.84
26 05 29 00-0087	EA		1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.61	2.45
26 05 29 00-0088	EA		1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.18	2.45
26 05 29 00-0089	EA		2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.24	2.45
26 05 29 00-0090	EA		2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.87	3.07
26 05 29 00-0091	EA		3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.38	3.07
26 05 29 00-0092	EA		3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.87	3.07
26 05 29 00-0093	EA		4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.05	3.07
26 05 29 00-0094			304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
			Note: Includes hex screw and nut.		
26 05 29 00-0095	EA		1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.37	1.84
26 05 29 00-0096	EA		3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.75	1.84
26 05 29 00-0097	EA		1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.14	1.84
26 05 29 00-0098	EA		1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.20	2.45
26 05 29 00-0099	EA		1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.06	2.45
26 05 29 00-0100	EA		2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.08	2.45
26 05 29 00-0101	EA		2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	25.19	3.07
26 05 29 00-0102	EA		3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	28.63	3.07
26 05 29 00-0103	EA		3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.10	3.07
26 05 29 00-0104	EA		4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	35.55	3.07
26 05 29 00-0105			316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082)		
			Note: Includes hex screw and nut.		
26 05 29 00-0106	EA		1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.21	1.84
26 05 29 00-0107	EA		3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.18	1.84
26 05 29 00-0108	EA		1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.74	1.84
26 05 29 00-0109	EA		1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.47	2.45
26 05 29 00-0110	EA		1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.23	2.45
26 05 29 00-0111	EA		2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.57	2.45
26 05 29 00-0112	EA		2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.80	3.07
26 05 29 00-0113	EA		3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	29.54	3.07
26 05 29 00-0114	EA		3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	41.98	3.07
26 05 29 00-0115	EA		4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	49.59	3.07
26 05 29 00-0116			Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0117			Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0118	EA		Set Screw Beam Clamp, Steel Unistrut Channel Fitting	37.18	11.19
26 05 29 00-0119	EA		"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	25.78	11.19
26 05 29 00-0120	EA		"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	36.03	11.19
26 05 29 00-0121			304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0122	EA		"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	63.51	11.19
26 05 29 00-0123			Square Washers For Unistrut Channel (26 05 29 00-0037)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0124 Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	4.50	
26 05 29 00-0126 Stainless Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	6.61	
26 05 29 00-0128 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	8.51	
26 05 29 00-0129 Strut Braces, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130 EA 16" Diagonal Steel Bar Brace For Unistrut Channel	34.57	
26 05 29 00-0131 Trolley Hangers, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132 EA Steel Trolley Track Hanger For Unistrut Channel	43.05	
26 05 29 00-0133 Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		
26 05 29 00-0134 Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.		
26 05 29 00-0135 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	8.09	
26 05 29 00-0136 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	8.79	
26 05 29 00-0137 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	9.31	
26 05 29 00-0138 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	12.13	
26 05 29 00-0139 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.		
26 05 29 00-0140 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	18.72	
26 05 29 00-0141 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	20.02	
26 05 29 00-0142 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	28.91	
26 05 29 00-0143 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	50.44	
26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		
26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	8.11	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	8.89	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	9.35	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	12.94	
26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.02	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	15.99	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	17.55	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	49.10	
26 05 29 00-0155 Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156 Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157 Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158 EA 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	556.76	73.47
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	136.17	24.49
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	344.96	61.22
26 05 29 00-0161 Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162 Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate	463.47	91.83
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate	1,336.82	91.83
26 05 29 00-0165 Supports <small>(26 05 29)</small>		
26 05 29 00-0166 One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap	4.46	
For Work In Restricted Working Space, Add		1.18
For Installation On Concrete (Includes Drilling And Fastener), Add		1.08
For >50 To 100, Deduct		-0.21
For >100 To 250, Deduct		-0.42
For >250 To 500, Deduct		-0.82
For >500, Deduct		-1.23

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0168	EA		3/4", One Hole Steel Conduit Strap .....4.51		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.24	
26 05 29 00-0169	EA		1", One Hole Steel Conduit Strap .....4.77		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500, Deduct</i>	-1.26	
26 05 29 00-0170	EA		1-1/4", One Hole Steel Conduit Strap .....4.97		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500, Deduct</i>	-1.28	
26 05 29 00-0171	EA		1-1/2", One Hole Steel Conduit Strap .....5.10		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500, Deduct</i>	-1.29	
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap .....5.89		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500, Deduct</i>	-1.37	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap .....6.70		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap .....6.97		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500, Deduct</i>	-1.48	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap .....8.30		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500, Deduct</i>	-1.61	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap .....9.36		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500, Deduct</i>	-1.72	
26 05 29 00-0177			One Hole Iron Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap .....4.59		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.24	
26 05 29 00-0179	EA		3/4", One Hole Iron Conduit Strap .....4.72		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.84	
			<i>For >500, Deduct</i>	-1.26	
26 05 29 00-0180	EA		1", One Hole Iron Conduit Strap .....4.94		
			<i>For Work In Restricted Working Space, Add</i>	1.18	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500, Deduct</i>	-1.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap	5.50	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.90	
For >500, Deduct	-1.33	
26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap	5.72	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.92	
For >500, Deduct	-1.36	
26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap	7.12	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.02	
For >500, Deduct	-1.50	
26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap	10.13	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.35	
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.25	
For >500, Deduct	-1.80	
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap	12.64	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.41	
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.44	
For >500, Deduct	-2.05	
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap	16.31	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.51	
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.42	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap	31.01	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.87	
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.89	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap	38.91	
For Work In Restricted Working Space, Add	1.18	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-1.07	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.68	
26 05 29 00-0189 Two Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap	5.17	
For Work In Restricted Working Space, Add	1.32	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.30	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.40	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap	5.26	
For Work In Restricted Working Space, Add	1.32	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.30	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.41	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap	5.30	
For Work In Restricted Working Space, Add	1.32	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.30	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.41	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap	5.36	
For Work In Restricted Working Space, Add	1.32	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.30	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0194	EA		1-1/2", Two Hole Steel Conduit Strap	5.41	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0195	EA		2", Two Hole Steel Conduit Strap	5.52	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500, Deduct</i>	-1.43	
26 05 29 00-0196	EA		2-1/2", Two Hole Steel Conduit Strap	6.12	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500, Deduct</i>	-1.49	
26 05 29 00-0197	EA		3", Two Hole Steel Conduit Strap	6.25	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500, Deduct</i>	-1.51	
26 05 29 00-0198	EA		3-1/2", Two Hole Steel Conduit Strap	6.73	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.28	
			<i>For >100 To 250, Deduct</i>	-0.56	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0199	EA		4", Two Hole Steel Conduit Strap	7.05	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0200	EA		5", Two Hole Steel Conduit Strap	7.48	
			<i>For Work In Restricted Working Space, Add</i>	1.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.30	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500, Deduct</i>	-1.63	
26 05 29 00-0201			Clamp Back Spacers <small>(26 05 29 00-0165)</small>	4.03	
26 05 29 00-0202	EA		1/2" Conduit, Clamp Back Spacer	4.03	
			<i>For Work In Restricted Working Space, Add</i>	0.92	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500, Deduct</i>	-1.02	
26 05 29 00-0203	EA		3/4" Conduit, Clamp Back Spacer	4.34	
			<i>For Work In Restricted Working Space, Add</i>	0.92	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.71	
			<i>For >500, Deduct</i>	-1.05	
26 05 29 00-0204	EA		1" Conduit, Clamp Back Spacer	4.62	
			<i>For Work In Restricted Working Space, Add</i>	0.92	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500, Deduct</i>	-1.07	
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer	5.73	
			<i>For Work In Restricted Working Space, Add</i>	0.92	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.81	
			<i>For >500, Deduct</i>	-1.19	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer	6.62	
			<i>For Work In Restricted Working Space, Add</i>	0.92	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.87	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500, Deduct</i>	-1.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer	7.56	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.37	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer	11.36	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.23	
For >500, Deduct	-1.75	
26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer	15.91	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.47	
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-2.20	
26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer	20.33	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-0.58	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.65	
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer	41.06	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-1.10	
For >100 To 250, Deduct	-2.21	
For >250 To 500, Deduct	-3.46	
For >500, Deduct	-4.72	
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer	76.06	
For Work In Restricted Working Space, Add	0.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.87	
For >50 To 100, Deduct	-1.98	
For >100 To 250, Deduct	-3.96	
For >250 To 500, Deduct	-6.09	
For >500, Deduct	-8.22	
26 05 29 00-0213 Conduit Clips (26 05 29 00-0165)		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip	5.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.29	
26 05 29 00-0215 EA 3/4" Conduit Clip	5.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.29	
26 05 29 00-0216 EA 1" Conduit Clip	4.99	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.28	
26 05 29 00-0217 EA 1-1/4" Conduit Clip	5.22	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.08	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.88	
For >500, Deduct	-1.31	
26 05 29 00-0218 Bolt And Nut Conduit Clips (26 05 29 00-0165)		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B)	6.31	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.09	
For >500, Deduct	-1.61	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B)	6.54	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.10	
For >500, Deduct	-1.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	6.97	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.40	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500, Deduct</i>	-1.74	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.10	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.40	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.18	
			<i>For >500, Deduct</i>	-1.75	
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	7.96	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.40	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.25	
			<i>For >500, Deduct</i>	-1.84	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	8.63	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.48	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.34	
			<i>For >500, Deduct</i>	-1.97	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	9.39	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.48	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.39	
			<i>For >500, Deduct</i>	-2.04	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	17.20	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
			<i>For >50 To 100, Deduct</i>	-0.58	
			<i>For >100 To 250, Deduct</i>	-1.17	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.94	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod	3.67	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.84	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod	3.73	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.84	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod	3.90	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.84	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.98	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod	4.33	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.84	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500, Deduct</i>	-1.02	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165)		
			Note: For threaded rod, nut not required.		
26 05 29 00-0233	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	5.48	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0234	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.37	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0235	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	6.03	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.22	
26 05 29 00-0236			T-Bar Support Clips (26 05 29 00-0165)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	9.05	
<i>For >50 To 100, Deduct</i>	-0.38	
<i>For >100 To 250, Deduct</i>	-0.76	
<i>For >250 To 500, Deduct</i>	-1.44	
<i>For >500, Deduct</i>	-2.13	
26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	8.53	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.73	
<i>For >250 To 500, Deduct</i>	-1.40	
<i>For >500, Deduct</i>	-2.08	
26 05 29 00-0239 EA 15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.33	
<i>For >50 To 100, Deduct</i>	-0.12	
<i>For >100 To 250, Deduct</i>	-0.24	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.64	
26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512)	28.28	
<i>For >50 To 100, Deduct</i>	-0.77	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-2.43	
<i>For >500, Deduct</i>	-3.32	
26 05 29 00-0241 Switch And Outlet Box Type Supports <small>(26 05 29 00-0165)</small>		
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	6.86	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.82	
<i>For >500, Deduct</i>	-1.18	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	5.77	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100 To 250, Deduct</i>	-0.41	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500, Deduct</i>	-1.07	
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO).....	6.71	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.81	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	4.22	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.33	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500, Deduct</i>	-0.91	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.42	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.64	
<i>For >500, Deduct</i>	-0.93	
26 05 29 00-0247 Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515).....	5.96	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-1.06	
<i>For >500, Deduct</i>	-1.58	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517).....	22.08	
<i>For >50 To 100, Deduct</i>	-0.67	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-3.19	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	30.54	
<i>For >50 To 100, Deduct</i>	-0.89	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-4.03	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.08	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100 To 250, Deduct</i>	-0.44	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.24	
<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.10	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100 To 250, Deduct</i>	-0.44	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.24	
<i>For Work In Restricted Working Space, Add</i>	1.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0254	EA		1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.21	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500, Deduct</i>	-1.26	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0255	EA		1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	6.60	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500, Deduct</i>	-1.64	
			<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 29 00-0256	EA		1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.17	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 29 00-0257	EA		2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.23	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 29 00-0258	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	8.86	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.43	
			<i>For >500, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 29 00-0259	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.37	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.47	
			<i>For >500, Deduct</i>	-2.16	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 29 00-0260	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.86	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.50	
			<i>For >500, Deduct</i>	-2.21	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 29 00-0261	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	10.04	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.81	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-2.23	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 29 00-0262			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.45	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500, Deduct</i>	-1.28	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0264	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.41	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500, Deduct</i>	-1.28	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0265	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	5.35	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0266	EA		1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	7.05	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500, Deduct</i>	-1.69	
			<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 29 00-0267	EA		1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.05	
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500, Deduct</i>	-1.79	
			<i>For Work In Restricted Working Space, Add</i>	1.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.11	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.22	
<i>For >500, Deduct</i>	-1.79	
<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 29 00-0269 "J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205).....	26.35	
<i>For >50 To 100, Deduct</i>	-0.87	
<i>For >100 To 250, Deduct</i>	-1.75	
<i>For >250 To 500, Deduct</i>	-3.05	
<i>For >500, Deduct</i>	-4.35	
<i>For Work In Restricted Working Space, Add</i>	2.57	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207).....	26.66	
<i>For >50 To 100, Deduct</i>	-0.88	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-3.07	
<i>For >500, Deduct</i>	-4.38	
<i>For Work In Restricted Working Space, Add</i>	2.57	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210).....	28.16	
<i>For >50 To 100, Deduct</i>	-0.95	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-3.34	
<i>For >500, Deduct</i>	-4.77	
<i>For Work In Restricted Working Space, Add</i>	2.94	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212)	28.50	
<i>For >50 To 100, Deduct</i>	-0.96	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-3.36	
<i>For >500, Deduct</i>	-4.81	
<i>For Work In Restricted Working Space, Add</i>	2.94	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215)	29.95	
<i>For >50 To 100, Deduct</i>	-1.02	
<i>For >100 To 250, Deduct</i>	-2.05	
<i>For >250 To 500, Deduct</i>	-3.62	
<i>For >500, Deduct</i>	-5.20	
<i>For Work In Restricted Working Space, Add</i>	3.31	
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	31.21	
<i>For >50 To 100, Deduct</i>	-1.06	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-3.72	
<i>For >500, Deduct</i>	-5.33	
<i>For Work In Restricted Working Space, Add</i>	3.31	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225)	50.47	
<i>For >50 To 100, Deduct</i>	-1.57	
<i>For >100 To 250, Deduct</i>	-3.14	
<i>For >250 To 500, Deduct</i>	-5.32	
<i>For >500, Deduct</i>	-7.50	
<i>For Work In Restricted Working Space, Add</i>	3.67	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	53.60	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.35	
<i>For >250 To 500, Deduct</i>	-5.70	
<i>For >500, Deduct</i>	-8.05	
<i>For Work In Restricted Working Space, Add</i>	4.04	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235)	57.70	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100 To 250, Deduct</i>	-3.62	
<i>For >250 To 500, Deduct</i>	-6.17	
<i>For >500, Deduct</i>	-8.71	
<i>For Work In Restricted Working Space, Add</i>	4.41	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	77.27	
<i>For >50 To 100, Deduct</i>	-2.30	
<i>For >100 To 250, Deduct</i>	-4.60	
<i>For >250 To 500, Deduct</i>	-7.63	
<i>For >500, Deduct</i>	-10.67	
<i>For Work In Restricted Working Space, Add</i>	4.41	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	84.92	
<i>For >50 To 100, Deduct</i>	-2.52	
<i>For >100 To 250, Deduct</i>	-5.04	
<i>For >250 To 500, Deduct</i>	-8.36	
<i>For >500, Deduct</i>	-11.68	
<i>For Work In Restricted Working Space, Add</i>	4.78	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	120.17	
<i>For >50 To 100, Deduct</i>	-3.46	
<i>For >100 To 250, Deduct</i>	-6.93	
<i>For >250 To 500, Deduct</i>	-11.31	
<i>For >500, Deduct</i>	-15.69	
<i>For Work In Restricted Working Space, Add</i>	5.51	

26 05 29 00-0282 Between Studs Box Brackets (26 05 29 00-0165)

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0283	EA		16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	9.43	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500, Deduct</i>	-1.68	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0284	EA		24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	11.43	
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.32	
			<i>For >500, Deduct</i>	-1.88	
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 29 00-0285			Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286	EA		Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.20	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500, Deduct</i>	-0.81	
26 05 29 00-0287	EA		Angle Bracket Only With 1/4" Hole (Caddy AB)	3.09	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.54	
			<i>For >500, Deduct</i>	-0.80	
26 05 29 00-0288	EA		Offset Bracket Only With 1/4" Hole (Caddy AO)	3.09	
			<i>For >50 To 100, Deduct</i>	-0.14	
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.54	
			<i>For >500, Deduct</i>	-0.80	
26 05 29 00-0289	EA		Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB)	4.29	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0290	EA		Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB)	4.31	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB)	4.18	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500, Deduct</i>	-0.91	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO)	4.29	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0293	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO)	4.31	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0294			Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.19	
			<i>For >50 To 100, Deduct</i>	-0.09	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500, Deduct</i>	-0.53	
26 05 29 00-0296	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.24	
			<i>For >50 To 100, Deduct</i>	-0.09	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500, Deduct</i>	-0.53	
26 05 29 00-0297	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.42	
			<i>For >50 To 100, Deduct</i>	-0.10	
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500, Deduct</i>	-0.55	
26 05 29 00-0298	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.79	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.40	
			<i>For >500, Deduct</i>	-0.59	
26 05 29 00-0299			Wire Ties <small>(26 05 29 00-0165)</small>		
			Note: Per hundred (C).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	31.30	
For Up To 0.1, Add	25.58	
For >0.1 To 0.25, Add	12.79	
For >0.25 To 0.75, Add	6.40	
For >2.0, Deduct	-2.56	
For UV Black, Add	0.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	31.52	
For Up To 0.1, Add	25.58	
For >0.1 To 0.25, Add	12.79	
For >0.25 To 0.75, Add	6.40	
For >2.0, Deduct	-2.56	
For UV Black, Add	0.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	31.68	
For Up To 0.1, Add	25.58	
For >0.1 To 0.25, Add	12.79	
For >0.25 To 0.75, Add	6.40	
For >2.0, Deduct	-2.56	
For UV Black, Add	0.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	31.74	
For Up To 0.1, Add	25.58	
For >0.1 To 0.25, Add	12.79	
For >0.25 To 0.75, Add	6.40	
For >2.0, Deduct	-2.56	
For UV Black, Add	0.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	32.91	
For Up To 0.1, Add	26.68	
For >0.1 To 0.25, Add	13.34	
For >0.25 To 0.75, Add	6.67	
For >2.0, Deduct	-2.67	
For UV Black, Add	0.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.00	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	38.96	
For Up To 0.1, Add	27.90	
For >0.1 To 0.25, Add	13.95	
For >0.25 To 0.75, Add	6.98	
For >2.0, Deduct	-2.79	
For UV Black, Add	1.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.37	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	37.44	
For Up To 0.1, Add	25.58	
For >0.1 To 0.25, Add	12.79	
For >0.25 To 0.75, Add	6.40	
For >2.0, Deduct	-2.56	
For UV Black, Add	1.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	38.63	
For Up To 0.1, Add	26.68	
For >0.1 To 0.25, Add	13.34	
For >0.25 To 0.75, Add	6.67	
For >2.0, Deduct	-2.67	
For UV Black, Add	1.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.00	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	39.91	
For Up To 0.1, Add	27.90	
For >0.1 To 0.25, Add	13.95	
For >0.25 To 0.75, Add	6.98	
For >2.0, Deduct	-2.79	
For UV Black, Add	1.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.37	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	57.79	
For Up To 0.1, Add	30.08	
For >0.1 To 0.25, Add	15.04	
For >0.25 To 0.75, Add	7.52	
For >2.0, Deduct	-3.01	
For UV Black, Add	4.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.02	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	60.29	
For Up To 0.1, Add	30.08	
For >0.1 To 0.25, Add	15.04	
For >0.25 To 0.75, Add	7.52	
For >2.0, Deduct	-3.01	
For UV Black, Add	4.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.02	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	41.66	
For Up To 0.1, Add	27.90	
For >0.1 To 0.25, Add	13.95	
For >0.25 To 0.75, Add	6.98	
For >2.0, Deduct	-2.79	
For UV Black, Add	2.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0312	C		8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	39.45	
			<i>For Up To 0.1, Add</i>	27.90	
			<i>For >0.1 To 0.25, Add</i>	13.95	
			<i>For >0.25 To 0.75, Add</i>	6.98	
			<i>For >2.0, Deduct</i>	-2.79	
			<i>For UV Black, Add</i>	1.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.37	
26 05 29 00-0313	C		11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	58.47	
			<i>For Up To 0.1, Add</i>	30.08	
			<i>For >0.1 To 0.25, Add</i>	15.04	
			<i>For >0.25 To 0.75, Add</i>	7.52	
			<i>For >2.0, Deduct</i>	-3.01	
			<i>For UV Black, Add</i>	4.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.02	
26 05 29 00-0314	C		14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	66.87	
			<i>For Up To 0.1, Add</i>	31.96	
			<i>For >0.1 To 0.25, Add</i>	15.98	
			<i>For >0.25 To 0.75, Add</i>	7.99	
			<i>For >2.0, Deduct</i>	-3.20	
			<i>For UV Black, Add</i>	5.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.59	
26 05 29 00-0315	C		8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	65.36	
			<i>For Up To 0.1, Add</i>	27.90	
			<i>For >0.1 To 0.25, Add</i>	13.95	
			<i>For >0.25 To 0.75, Add</i>	6.98	
			<i>For >2.0, Deduct</i>	-2.79	
			<i>For UV Black, Add</i>	5.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.37	
26 05 29 00-0316	C		11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	71.55	
			<i>For Up To 0.1, Add</i>	30.08	
			<i>For >0.1 To 0.25, Add</i>	15.04	
			<i>For >0.25 To 0.75, Add</i>	7.52	
			<i>For >2.0, Deduct</i>	-3.01	
			<i>For UV Black, Add</i>	6.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.02	
26 05 29 00-0317	C		15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	86.51	
			<i>For Up To 0.1, Add</i>	31.96	
			<i>For >0.1 To 0.25, Add</i>	15.98	
			<i>For >0.25 To 0.75, Add</i>	7.99	
			<i>For >2.0, Deduct</i>	-3.20	
			<i>For UV Black, Add</i>	8.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.59	
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	123.46	
			<i>For Up To 0.1, Add</i>	34.09	
			<i>For >0.1 To 0.25, Add</i>	17.05	
			<i>For >0.25 To 0.75, Add</i>	8.52	
			<i>For >2.0, Deduct</i>	-3.41	
			<i>For UV Black, Add</i>	13.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.23	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	119.65	
			<i>For Up To 0.1, Add</i>	34.09	
			<i>For >0.1 To 0.25, Add</i>	17.05	
			<i>For >0.25 To 0.75, Add</i>	8.52	
			<i>For >2.0, Deduct</i>	-3.41	
			<i>For UV Black, Add</i>	12.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.23	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	145.62	
			<i>For Up To 0.1, Add</i>	35.68	
			<i>For >0.1 To 0.25, Add</i>	17.84	
			<i>For >0.25 To 0.75, Add</i>	8.92	
			<i>For >2.0, Deduct</i>	-3.57	
			<i>For UV Black, Add</i>	16.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	168.46	
			<i>For Up To 0.1, Add</i>	37.42	
			<i>For >0.1 To 0.25, Add</i>	18.71	
			<i>For >0.25 To 0.75, Add</i>	9.36	
			<i>For >2.0, Deduct</i>	-3.74	
			<i>For UV Black, Add</i>	19.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.23	
26 05 29 00-0322	C		46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	230.78	
			<i>For Up To 0.1, Add</i>	40.38	
			<i>For >0.1 To 0.25, Add</i>	20.19	
			<i>For >0.25 To 0.75, Add</i>	10.10	
			<i>For >2.0, Deduct</i>	-4.04	
			<i>For UV Black, Add</i>	28.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.11	
26 05 29 00-0323	C		3/4" x 3/4" Self Adhesive Tie Mounts.....	41.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.51	
26 05 29 00-0324	C		1.1" x 1.1" Tie Mounts With Screw.....	81.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.02	
26 05 29 00-0325	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.18	
26 05 29 00-0326	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.42	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.15	
26 05 29 00-0327	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.17 0.15	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll Note: Cut to length. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.01 1.15	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit <small>(26 05 29)</small> Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331 Toggle Bolts <small>(26 05 29 00-0330)</small> Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.57 -0.91 -1.82 -3.18 -4.54	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.83 -0.93 -1.87 -3.26 -4.65	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.39 -0.96 -1.93 -3.36 -4.80	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.66 -0.99 -1.98 -3.45 -4.92	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.90 -1.01 -2.02 -3.53 -5.03	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.44 -1.07 -2.13 -3.70 -5.27	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.96 -1.10 -2.19 -3.80 -5.41	
26 05 29 00-0339 Machine Screws <small>(26 05 29 00-0330)</small> Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.82 -0.27 -0.55 -0.96 -1.37	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2.87 -0.28 -0.55 -0.96 -1.38	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.59 -0.34 -0.69 -1.20 -1.72	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.77 -0.35 -0.70 -1.22 -1.74	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.68 -0.42 -0.85 -1.47 -2.10	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small> Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.70 -0.37 -0.75 -1.29 -1.83	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0347	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.63	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100 To 250, Deduct</i>	-0.74	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500, Deduct</i>	-1.82	
26 05 29 00-0348	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.66	
			<i>For >50 To 100, Deduct</i>	-0.47	
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.62	
			<i>For >500, Deduct</i>	-2.30	
26 05 29 00-0349	EA		1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	8.53	
			<i>For >50 To 100, Deduct</i>	-0.57	
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-1.94	
			<i>For >500, Deduct</i>	-2.75	
26 05 29 00-0350			Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small>		
			Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.50	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500, Deduct</i>	-1.44	
26 05 29 00-0352	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.56	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500, Deduct</i>	-1.44	
26 05 29 00-0353	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	4.23	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.64	
26 05 29 00-0354			Hollow Wall Screw Anchors <small>(26 05 29 00-0330)</small>		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.07	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500, Deduct</i>	-0.86	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.14	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.24	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500, Deduct</i>	-0.88	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.85	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.05	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.00	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.06	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.04	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.06	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.07	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.07	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.29	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500, Deduct</i>	-1.09	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.37	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0364 Lead Screw Anchors <small>(26 05 29 00-0330)</small>		
<i>Note: Includes screw.</i>		
26 05 29 00-0365 EA #6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	4.74	
<i>For >50 To 100, Deduct</i>		-0.43
<i>For >100 To 250, Deduct</i>		-0.86
<i>For >250 To 500, Deduct</i>		-1.51
<i>For >500, Deduct</i>		-2.15
26 05 29 00-0366 EA #10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	5.65	
<i>For >50 To 100, Deduct</i>		-0.50
<i>For >100 To 250, Deduct</i>		-1.01
<i>For >250 To 500, Deduct</i>		-1.75
<i>For >500, Deduct</i>		-2.50
26 05 29 00-0367 EA #16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	7.67	
<i>For >50 To 100, Deduct</i>		-0.65
<i>For >100 To 250, Deduct</i>		-1.30
<i>For >250 To 500, Deduct</i>		-2.26
<i>For >500, Deduct</i>		-3.22
26 05 29 00-0368 Acoustical T-Bar Clips <small>(26 05 29 00-0330)</small>		
<i>Note: For conduit installation above suspended ceilings up to 15' height.</i>		
26 05 29 00-0369 EA 1/2" Conduit, Push-In Acoustical T-Bar Clip	7.41	
<i>For >50 To 100, Deduct</i>		-0.58
<i>For >100 To 250, Deduct</i>		-1.15
<i>For >250 To 500, Deduct</i>		-1.99
<i>For >500, Deduct</i>		-2.83
26 05 29 00-0370 EA 3/4" Conduit, Push-In Acoustical T-Bar Clip	7.77	
<i>For >50 To 100, Deduct</i>		-0.61
<i>For >100 To 250, Deduct</i>		-1.21
<i>For >250 To 500, Deduct</i>		-2.09
<i>For >500, Deduct</i>		-2.97
26 05 29 00-0371 EA 1" Conduit, Push-In Acoustical T-Bar Clip	8.44	
<i>For >50 To 100, Deduct</i>		-0.65
<i>For >100 To 250, Deduct</i>		-1.29
<i>For >250 To 500, Deduct</i>		-2.23
<i>For >500, Deduct</i>		-3.16
26 05 29 00-0372 Threaded Rod, Accessories And Attachments <small>(26 05 29)</small>		
26 05 29 00-0373 Threaded Rod And Rod Accessories <small>(26 05 29 00-0372)</small>		
26 05 29 00-0374 Carbon Steel Threaded Rod <small>(26 05 29 00-0373)</small>		
<i>Note: Includes plain finish.</i>		
26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.25	0.77
<i>For Galvanized, Add</i>		1.48
<i>For Zinc Coated, Add</i>		1.06
26 05 29 00-0376 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.53	0.82
<i>For Galvanized, Add</i>		2.36
<i>For Zinc Coated, Add</i>		1.68
26 05 29 00-0377 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.83	0.84
<i>For Galvanized, Add</i>		3.66
<i>For Zinc Coated, Add</i>		2.60
26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	18.34	0.87
<i>For Galvanized, Add</i>		6.64
<i>For Zinc Coated, Add</i>		4.73
26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.04	0.91
<i>For Galvanized, Add</i>		7.30
<i>For Zinc Coated, Add</i>		5.20
26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	27.65	1.02
<i>For Galvanized, Add</i>		10.24
<i>For Zinc Coated, Add</i>		7.30
26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	34.57	1.14
<i>For Galvanized, Add</i>		12.92
<i>For Zinc Coated, Add</i>		9.21
26 05 29 00-0382 Threaded Rod Couplings <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut	9.99	
26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut	11.33	
26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.23	
26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut	17.43	
26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut	25.80	
26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut	30.61	
26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	59.22	
26 05 29 00-0390 Flat Washers <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.85	0.31
<i>For Galvanized, Add</i>		0.04
26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.10	0.31
<i>For Galvanized, Add</i>		0.09
26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.46	0.31
<i>For Galvanized, Add</i>		0.17

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.80	0.61
<i>For Galvanized, Add</i>	0.24	
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.04	0.61
<i>For Galvanized, Add</i>	0.28	
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.42	0.61
<i>For Galvanized, Add</i>	0.35	
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.71	0.61
<i>For Galvanized, Add</i>	0.39	
26 05 29 00-0398 Malleable Iron Eye Sockets <small>(26 05 29 00-0373)</small>		
Note: Type 16.		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket	11.60	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket	13.89	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket	24.25	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket	34.60	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket	36.85	
26 05 29 00-0404 Hex Nuts <small>(26 05 29 00-0373)</small>		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.82	0.31
<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.05	0.31
<i>For Galvanized, Add</i>	0.07	
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.46	0.31
<i>For Galvanized, Add</i>	0.17	
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.74	0.61
<i>For Galvanized, Add</i>	0.22	
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.59	0.61
<i>For Galvanized, Add</i>	0.42	
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.30	0.61
<i>For Galvanized, Add</i>	0.57	
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.44	0.61
<i>For Galvanized, Add</i>	1.08	
26 05 29 00-0412 Forged Steel Turnbuckles <small>(26 05 29 00-0373)</small>		
Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	28.43	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	35.11	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	46.98	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	58.10	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	142.72	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	95.14	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	191.03	
26 05 29 00-0420 Attachments <small>(26 05 29 00-0372)</small>		
26 05 29 00-0421 Welded Beam Attachments <small>(26 05 29 00-0420)</small>		
Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment	52.23	12.24
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment	55.68	12.85
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment	59.28	13.59
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment	75.25	14.45
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment	90.04	15.31
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment	125.72	17.51
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment	177.22	18.37
26 05 29 00-0429 C-Clamp Style Beam Clamps <small>(26 05 29 00-0420)</small>		
Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	18.74	9.20
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	22.23	9.82
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	25.17	10.52
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	32.14	11.32
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	46.20	12.27
26 05 29 00-0435 Bottom Mount I-Beam Clamps <small>(26 05 29 00-0420)</small>		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	50.24	12.27
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	73.35	13.39
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	104.34	14.73
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	124.76	16.36
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	299.84	18.41
26 05 29 00-0441 Steel U-Bolts <small>(26 05 29 00-0420)</small>		
Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt	15.25	7.36
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt	16.53	7.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt	17.77	8.19
26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	20.14	8.66
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	20.83	9.20
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt	22.28	9.82
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	31.71	10.52
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt	34.94	11.33
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt	42.06	12.27
26 05 29 00-0451 Stainless Steel Threaded Rod <small>(26 05 29 00-0372)</small>		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.18	0.61
<i>For 316 Stainless Steel, Add</i>	1.19	
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.39	0.67
<i>For 316 Stainless Steel, Add</i>	2.04	
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.27	0.77
<i>For 316 Stainless Steel, Add</i>	2.73	
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.59	0.79
<i>For 316 Stainless Steel, Add</i>	4.05	
26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	13.96	0.82
<i>For 316 Stainless Steel, Add</i>	4.99	
26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	21.09	0.83
<i>For 316 Stainless Steel, Add</i>	7.87	
26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	29.66	0.84
<i>For 316 Stainless Steel, Add</i>	11.33	
26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	40.93	0.87
<i>For 316 Stainless Steel, Add</i>	15.87	
26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod	52.64	1.02
<i>For 316 Stainless Steel, Add</i>	20.49	
26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	111.80	1.23
<i>For 316 Stainless Steel, Add</i>	44.25	
26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports <small>(26 05 29)</small>		
<i>Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.</i>		
26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0464 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0465 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.02	24.49
26 05 29 00-0466 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.84	26.70
26 05 29 00-0467 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	77.63	29.39
26 05 29 00-0468 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	93.36	32.70
26 05 29 00-0469 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	107.95	36.73
26 05 29 00-0470 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	129.47	40.40
26 05 29 00-0471 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	141.60	44.08
26 05 29 00-0472 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	156.01	47.76
26 05 29 00-0473 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	164.66	51.43
26 05 29 00-0474 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	178.03	55.10
26 05 29 00-0475 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0476 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.09	24.49
26 05 29 00-0477 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	76.27	26.70
26 05 29 00-0478 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	87.90	29.39
26 05 29 00-0479 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	97.02	32.70
26 05 29 00-0480 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	109.37	36.73
26 05 29 00-0481 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	127.05	40.40
26 05 29 00-0482 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	146.18	44.08
26 05 29 00-0483 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	162.08	47.76
26 05 29 00-0484 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	172.29	51.43
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	179.04	55.10
26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.98	24.24
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	73.07	26.45
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	82.79	29.39
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	97.33	32.33
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	127.30	36.73
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	139.56	40.40
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps <small>(26 05 29 00-0493)</small>		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	8.42	0.73
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	9.16	0.73
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	13.49	0.73
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	16.41	0.73
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	21.62	0.73
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	32.50	0.73
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	43.30	0.73

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 29 00-0502	EA	3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		58.03	0.73
26 05 29 00-0503	EA	3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		102.74	0.73
26 05 29 00-0504	EA	4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		109.19	0.73
26 05 29 00-0505		Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)			
26 05 29 00-0506	EA	1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		16.62	1.46
26 05 29 00-0507	EA	3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		16.69	1.46
26 05 29 00-0508	EA	1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		17.13	1.46
26 05 29 00-0509	EA	1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		21.58	1.46
26 05 29 00-0510	EA	1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		22.19	1.46
26 05 29 00-0511	EA	2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		25.48	1.46
26 05 29 00-0512	EA	2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		28.66	1.46
26 05 29 00-0513	EA	3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		29.98	1.46
26 05 29 00-0514	EA	3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		32.02	1.46
26 05 29 00-0515	EA	4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....		34.75	1.46
26 05 29 00-0516		Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)			
26 05 29 00-0517		Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)			
26 05 29 00-0518	EA	1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		15.06	1.46
26 05 29 00-0519	EA	3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		17.54	1.46
26 05 29 00-0520	EA	1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		22.09	1.46
26 05 29 00-0521	EA	1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		25.87	1.46
26 05 29 00-0522	EA	1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		34.68	1.46
26 05 29 00-0523	EA	2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		60.47	1.46
26 05 29 00-0524	EA	2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		85.35	1.46
26 05 29 00-0525	EA	3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		116.61	1.46
26 05 29 00-0526	EA	3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		204.21	1.46
26 05 29 00-0527	EA	4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....		204.21	1.46
26 05 29 00-0528		Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)			
26 05 29 00-0529		Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)			
26 05 29 00-0530	LF	3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....		10.40	0.99
26 05 29 00-0531	LF	1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....		12.80	1.11
26 05 29 00-0532		Attachments (26 05 29 00-0462)			
26 05 29 00-0533		Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)			
26 05 29 00-0534	EA	1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		19.77	7.36
26 05 29 00-0535	EA	3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		20.42	7.73
26 05 29 00-0536	EA	1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		21.50	8.23
26 05 29 00-0537	EA	1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		22.89	8.71
26 05 29 00-0538	EA	1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		24.38	9.20
26 05 29 00-0539	EA	2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		27.43	9.82
26 05 29 00-0540	EA	2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		39.90	10.56
26 05 29 00-0541	EA	3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		41.84	11.29
26 05 29 00-0542	EA	4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		44.58	12.27
26 05 29 00-0543	EA	5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		73.21	13.99
26 05 29 00-0544	EA	6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....		90.84	16.20
26 05 29 00-0545		Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)			
26 05 29 00-0546	EA	1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....		68.73	24.24
26 05 29 00-0547	EA	5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....		80.78	24.24
26 05 29 00-0548	EA	3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....		85.75	24.24
26 05 29 00-0549	EA	1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....		94.70	25.71
26 05 29 00-0550	EA	1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....		110.95	29.39
26 05 29 00-0551		Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)			
Note: Includes stainless steel nuts and bolts.					
26 05 29 00-0552	EA	1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		25.09	8.08
26 05 29 00-0553	EA	3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		26.35	8.82
26 05 29 00-0554	EA	1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		28.72	9.55
26 05 29 00-0555	EA	1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		32.28	11.02
26 05 29 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		36.96	12.49
26 05 29 00-0557	EA	2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		41.20	13.22
26 05 29 00-0558	EA	2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		45.51	14.70
26 05 29 00-0559	EA	3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		54.32	16.16
26 05 29 00-0560	EA	3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		59.50	16.90
26 05 29 00-0561	EA	4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		62.42	18.37
26 05 29 00-0562	EA	5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....		66.57	20.57
26 05 29 00-0563		Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)			
26 05 29 00-0564	LF	A12, Polyvinyl Chloride (PVC) Coated Channel.....		26.67	3.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 29 00-0565	LF	A12A, Polyvinyl Chloride (PVC) Coated Channel.....	47.41	5.15
26 05 29 00-0566	LF	A12P, Polyvinyl Chloride (PVC) Coated Channel.....	28.51	3.67
26 05 29 00-0567	LF	C14, Polyvinyl Chloride (PVC) Coated Channel.....	21.01	3.67
26 05 29 00-0568	LF	C14P, Polyvinyl Chloride (PVC) Coated Channel.....	22.15	3.67

26 05 29 00-0569 Polymer Concrete Pads (26 05 29)

Note: Excludes excavation and backfill.

26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)

26 05 29 00-0571	EA	24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,377.31	128.30
26 05 29 00-0572	EA	25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,423.62	128.30
26 05 29 00-0573	EA	40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,849.18	128.30
26 05 29 00-0574	EA	40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,919.73	128.30
26 05 29 00-0575	EA	52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,783.50	128.30
26 05 29 00-0576	EA	44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	2,116.71	128.30
26 05 29 00-0577	EA	40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	2,372.20	128.30
26 05 29 00-0578	EA	52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	2,269.26	160.37
26 05 29 00-0579	EA	74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	3,463.03	160.37
26 05 29 00-0580	EA	93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,662.71	160.37

26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)

26 05 29 00-0582	EA	42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	658.83	67.46
26 05 29 00-0583	EA	48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	785.34	67.46
26 05 29 00-0584	EA	60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,021.78	96.22
26 05 29 00-0585	EA	54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,068.80	96.22
26 05 29 00-0586	EA	57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,547.43	96.22
26 05 29 00-0587	EA	72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,613.95	96.22
26 05 29 00-0588	EA	64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,737.91	96.22
26 05 29 00-0589	EA	72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,737.91	96.22
26 05 29 00-0590	EA	76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,295.13	96.22
26 05 29 00-0591	EA	96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,739.47	96.22

26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)

26 05 29 00-0593	EA	24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	390.90	67.46
26 05 29 00-0594	EA	24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	423.42	67.46
26 05 29 00-0595	EA	24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	453.04	67.46
26 05 29 00-0596	EA	24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	551.45	67.46
26 05 29 00-0597	EA	40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	507.53	67.46
26 05 29 00-0598	EA	42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	528.23	67.46
26 05 29 00-0599	EA	48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	581.87	67.46
26 05 29 00-0600	EA	48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	613.16	67.46
26 05 29 00-0601	EA	54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	717.68	67.46
26 05 29 00-0602	EA	56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	889.83	67.46
26 05 29 00-0603	EA	64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,316.84	96.22
26 05 29 00-0604	EA	66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,379.77	96.22
26 05 29 00-0605	EA	75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,399.62	96.22
26 05 29 00-0606	EA	90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,531.89	96.22
26 05 29 00-0607	EA	84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,301.11	96.22
26 05 29 00-0608	EA	96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,893.71	96.22

26 05 33 Raceway and Boxes for Electrical Systems (26 05)

26 05 33 13 Conduit for Electrical Systems (26 05 33)

26 05 33 13-0001

Conduit Assemblies With Wire (26 05 33 13)

Note: Includes conduit, field bending conduit up to and including 1", fittings and wire. Excludes hangers or supports.

26 05 33 13-0002

Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)

Note: Includes conduit, field bends, fittings, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0594 for larger EMT conduit.

26 05 33 13-0003	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	945.25	273.45
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	234.43	
		<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.69	
26 05 33 13-0004	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,029.23	296.95
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	254.56	
		<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2.53	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0005	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,113.21 274.70 3.37	320.44
26 05 33	13-0006	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	995.74 244.49 2.53	285.20
26 05 33	13-0007	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,099.39 267.99 3.79	312.61
26 05 33	13-0008	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,203.02 291.48 5.05	340.02
26 05 33	13-0009	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,108.85 264.63 4.41	308.69
26 05 33	13-0010	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,066.98 252.68 1.69	294.82
26 05 33	13-0011	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,150.97 272.82 2.53	318.32
26 05 33	13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,234.96 292.96	341.81
26 05 33	13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,318.95 313.10 4.21	365.31
26 05 33	13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,117.48 262.75 2.53	306.57
26 05 33	13-0015	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,221.13 286.25 3.79	333.98
26 05 33	13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,324.77 309.74 5.05	361.39
26 05 33	13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,428.42 333.24 6.32	388.81
26 05 33	13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,375.37 313.10 6.61	365.31



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0019	CLF			3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,520.12	1,520.12	400.55
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	343.31	
				<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	8.82	
26 05 33 13-0020	CLF			3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,374.07	1,374.07	353.56
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	303.03	
				<i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	7.29	
26 05 33 13-0021	CLF			3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,570.01	1,570.01	396.64
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	339.95	
				<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	10.93	
26 05 33 13-0022	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,245.36	1,245.36	317.31
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	272.02	
				<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.69	
26 05 33 13-0023	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,329.33	1,329.33	340.80
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	292.16	
				<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0024	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,413.32	1,413.32	364.30
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	312.29	
26 05 33 13-0025	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,497.31	1,497.31	387.79
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	332.44	
				<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	4.21	
26 05 33 13-0026	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,295.85	1,295.85	329.06
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	282.09	
				<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0027	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,399.50	1,399.50	356.46
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	305.58	
				<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	3.79	
26 05 33 13-0028	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,503.14	1,503.14	383.88
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	329.08	
				<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	5.05	
26 05 33 13-0029	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,606.78	1,606.78	411.29
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	352.58	
				<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	6.32	
26 05 33 13-0030	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,553.73	1,553.73	387.79
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	332.44	
				<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	6.61	
26 05 33 13-0031	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,748.39	1,748.39	419.12
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	359.29	
				<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	10.93	
26 05 33 13-0032	CLF			1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,944.33	1,944.33	462.20
				Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
				<i>For Work In Restricted Working Space, Add</i>	396.21	
				<i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	14.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 33 13-0033	Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small>		
	Note: Includes conduit, field bends, fittings, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.		
26 05 33 13-0034	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,233.09	311.26
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	266.78	
	<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.69	
26 05 33 13-0035	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,317.09	334.76
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	286.92	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0036	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,283.60	323.02
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	276.85	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0037	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,387.23	350.43
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	300.35	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	3.79	
26 05 33 13-0038	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,396.69	346.51
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	296.99	
	<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	4.41	
26 05 33 13-0039	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,360.75	331.96
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	284.51	
	<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1.69	
26 05 33 13-0040	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,444.74	355.46
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	304.64	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0041	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,528.72	378.96
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	324.78	
26 05 33 13-0042	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,411.24	343.72
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	294.57	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0043	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,514.89	371.13
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	318.07	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	3.79	
26 05 33 13-0044	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,618.53	398.54
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	341.57	
	<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	5.05	
26 05 33 13-0045	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,669.12	402.46
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	344.92	
	<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	6.61	
26 05 33 13-0046	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,813.89	437.70
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	375.13	
	<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	8.82	
26 05 33 13-0047	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	1,667.84	390.70
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	334.85	
	<i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	7.29	
26 05 33 13-0048	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	1,863.78	433.79
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	371.78	
	<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	10.93	
26 05 33 13-0049	CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,759.71	396.41
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	339.79	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2.53	
26 05 33 13-0050	CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,843.70	419.90
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	359.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	1,927.70 380.07 4.21	443.40
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,829.88 353.21 3.79	412.07
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,933.51 376.71 5.05	439.49
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	2,037.16 400.21 6.32	466.90
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,984.11 380.07 6.61	443.40
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,178.76 406.92 10.93	474.73
26 05 33 13-0057 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	2,374.71 443.84 14.57	517.81
26 05 33 13-0058 Conduit <small>(26 05 33 13)</small> Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0059 Conduit Installed Above Grade <small>(26 05 33 13-0058)</small> See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <small>(26 05 33 13-0059)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0061 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0060)</small> Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0062 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	8.96 -0.14 -0.52 -0.74 0.62 1.54 0.92 1.85 0.62 1.23 1.54 2.15 2.46 3.08 3.38	2.46
26 05 33 13-0063 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	10.63 -0.17 -0.62 -0.88 0.72 1.79 1.07 2.15 0.72 1.43 1.79 2.51 2.86 3.58 3.94	2.69

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0064	LF	1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.00	3.13
			<i>For >250 To 500, Deduct</i>	-0.27	
			<i>For >500 To 1,000, Deduct</i>	-0.88	
			<i>For >1,000, Deduct</i>	-1.26	
			<i>For Installation In Metal Stud Wall, Add</i>	0.96	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.41	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	2.89	
			<i>For Elevated Installation >10' To 15', Add</i>	0.96	
			<i>For Elevated Installation >15' To 20', Add</i>	1.93	
			<i>For Elevated Installation >20' To 25', Add</i>	2.41	
			<i>For Elevated Installation >25' To 30', Add</i>	3.37	
			<i>For Elevated Installation >30' To 35', Add</i>	3.85	
			<i>For Elevated Installation >35' To 40', Add</i>	4.82	
			<i>For Elevated Installation >40', Add</i>	5.30	
26 05 33	13-0065	LF	1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	17.34	3.58
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-1.05	
			<i>For >1,000, Deduct</i>	-1.48	
			<i>For Installation In Metal Stud Wall, Add</i>	1.02	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.55	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.53	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
			<i>For Elevated Installation >10' To 15', Add</i>	1.02	
			<i>For Elevated Installation >15' To 20', Add</i>	2.04	
			<i>For Elevated Installation >20' To 25', Add</i>	2.55	
			<i>For Elevated Installation >25' To 30', Add</i>	3.56	
			<i>For Elevated Installation >30' To 35', Add</i>	4.07	
			<i>For Elevated Installation >35' To 40', Add</i>	5.09	
			<i>For Elevated Installation >40', Add</i>	5.60	
26 05 33	13-0066	LF	1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	19.96	4.03
			<i>For >250 To 500, Deduct</i>	-0.44	
			<i>For >500 To 1,000, Deduct</i>	-1.22	
			<i>For >1,000, Deduct</i>	-1.72	
			<i>For Installation In Metal Stud Wall, Add</i>	1.12	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.80	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.68	
			<i>For Work In Restricted Working Space, Add</i>	3.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.12	
			<i>For Elevated Installation >15' To 20', Add</i>	2.24	
			<i>For Elevated Installation >20' To 25', Add</i>	2.80	
			<i>For Elevated Installation >25' To 30', Add</i>	3.92	
			<i>For Elevated Installation >30' To 35', Add</i>	4.48	
			<i>For Elevated Installation >35' To 40', Add</i>	5.60	
			<i>For Elevated Installation >40', Add</i>	6.15	
26 05 33	13-0067	LF	2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	25.49	4.92
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500 To 1,000, Deduct</i>	-1.57	
			<i>For >1,000, Deduct</i>	-2.21	
			<i>For Installation In Metal Stud Wall, Add</i>	1.38	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.44	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.06	
			<i>For Work In Restricted Working Space, Add</i>	4.13	
			<i>For Elevated Installation >10' To 15', Add</i>	1.38	
			<i>For Elevated Installation >15' To 20', Add</i>	2.75	
			<i>For Elevated Installation >20' To 25', Add</i>	3.44	
			<i>For Elevated Installation >25' To 30', Add</i>	4.82	
			<i>For Elevated Installation >30' To 35', Add</i>	5.50	
			<i>For Elevated Installation >35' To 40', Add</i>	6.88	
			<i>For Elevated Installation >40', Add</i>	7.57	
26 05 33	13-0068	LF	2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	38.11	6.72
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-2.39	
			<i>For >1,000, Deduct</i>	-3.34	
			<i>For Installation In Metal Stud Wall, Add</i>	1.87	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4.67	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.80	
			<i>For Work In Restricted Working Space, Add</i>	5.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.87	
			<i>For Elevated Installation >15' To 20', Add</i>	3.74	
			<i>For Elevated Installation >20' To 25', Add</i>	4.67	
			<i>For Elevated Installation >25' To 30', Add</i>	6.54	
			<i>For Elevated Installation >30' To 35', Add</i>	7.47	
			<i>For Elevated Installation >35' To 40', Add</i>	9.34	
			<i>For Elevated Installation >40', Add</i>	10.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0069 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	49.90	8.95
For >250 To 500, Deduct	-1.24	
For >500 To 1,000, Deduct	-3.11	
For >1,000, Deduct	-4.36	
For Installation In Metal Stud Wall, Add	2.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.29	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.78	
For Work In Restricted Working Space, Add	7.55	
For Elevated Installation >10' To 15', Add	2.52	
For Elevated Installation >15' To 20', Add	5.03	
For Elevated Installation >20' To 25', Add	6.29	
For Elevated Installation >25' To 30', Add	8.81	
For Elevated Installation >30' To 35', Add	10.07	
For Elevated Installation >35' To 40', Add	12.59	
For Elevated Installation >40', Add	13.84	
26 05 33 13-0070 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	60.04	11.19
For >250 To 500, Deduct	-1.51	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.26	
For Installation In Metal Stud Wall, Add	2.99	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.47	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.48	
For Work In Restricted Working Space, Add	8.96	
For Elevated Installation >10' To 15', Add	2.99	
For Elevated Installation >15' To 20', Add	5.97	
For Elevated Installation >20' To 25', Add	7.47	
For Elevated Installation >25' To 30', Add	10.45	
For Elevated Installation >30' To 35', Add	11.95	
For Elevated Installation >35' To 40', Add	14.94	
For Elevated Installation >40', Add	16.43	
26 05 33 13-0071 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	71.32	13.43
For >250 To 500, Deduct	-1.84	
For >500 To 1,000, Deduct	-4.49	
For >1,000, Deduct	-6.27	
For Installation In Metal Stud Wall, Add	3.45	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.62	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.17	
For Work In Restricted Working Space, Add	10.34	
For Elevated Installation >10' To 15', Add	3.45	
For Elevated Installation >15' To 20', Add	6.89	
For Elevated Installation >20' To 25', Add	8.62	
For Elevated Installation >25' To 30', Add	12.06	
For Elevated Installation >30' To 35', Add	13.78	
For Elevated Installation >35' To 40', Add	17.23	
For Elevated Installation >40', Add	18.95	
26 05 33 13-0072 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	113.68	17.00
For >250 To 500, Deduct	-3.56	
For >500 To 1,000, Deduct	-7.46	
For >1,000, Deduct	-10.31	
For Installation In Metal Stud Wall, Add	4.25	
For Installation In Wood Stud Wall (Includes Drilling), Add	10.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.38	
For Work In Restricted Working Space, Add	12.76	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.01	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.39	
26 05 33 13-0073 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	153.72	21.48
For >250 To 500, Deduct	-5.00	
For >500 To 1,000, Deduct	-10.19	
For >1,000, Deduct	-14.03	
For Installation In Metal Stud Wall, Add	5.37	
For Installation In Wood Stud Wall (Includes Drilling), Add	13.43	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	8.06	
For Work In Restricted Working Space, Add	16.11	
For Elevated Installation >10' To 15', Add	5.37	
For Elevated Installation >15' To 20', Add	10.74	
For Elevated Installation >20' To 25', Add	13.43	
For Elevated Installation >25' To 30', Add	18.80	
For Elevated Installation >30' To 35', Add	21.48	
For Elevated Installation >35' To 40', Add	26.85	
For Elevated Installation >40', Add	29.54	

26 05 33 13-0074 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0060)
 See CSI section 26 05 33 13-2508 for conduit field bending.

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0075	EA	2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	93.04	24.72
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.61	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.96	
26 05 33	13-0076	EA	2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	132.96	30.88
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For Elevated Installation >10' To 15', Add</i>	7.72	
			<i>For Elevated Installation >15' To 20', Add</i>	15.44	
			<i>For Elevated Installation >20' To 25', Add</i>	19.30	
			<i>For Elevated Installation >25' To 30', Add</i>	27.02	
			<i>For Elevated Installation >30' To 35', Add</i>	30.88	
			<i>For Elevated Installation >35' To 40', Add</i>	38.60	
			<i>For Elevated Installation >40', Add</i>	42.46	
26 05 33	13-0077	EA	3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	188.19	42.07
			<i>For Work In Restricted Working Space, Add</i>	31.55	
			<i>For Elevated Installation >10' To 15', Add</i>	10.52	
			<i>For Elevated Installation >15' To 20', Add</i>	21.03	
			<i>For Elevated Installation >20' To 25', Add</i>	26.29	
			<i>For Elevated Installation >25' To 30', Add</i>	36.81	
			<i>For Elevated Installation >30' To 35', Add</i>	42.07	
			<i>For Elevated Installation >35' To 40', Add</i>	52.59	
			<i>For Elevated Installation >40', Add</i>	57.84	
26 05 33	13-0078	EA	3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	248.41	47.44
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.72	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.45	
			<i>For Elevated Installation >35' To 40', Add</i>	59.31	
			<i>For Elevated Installation >40', Add</i>	65.24	
26 05 33	13-0079	EA	4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	303.94	61.76
			<i>For Work In Restricted Working Space, Add</i>	46.31	
			<i>For Elevated Installation >10' To 15', Add</i>	15.44	
			<i>For Elevated Installation >15' To 20', Add</i>	30.87	
			<i>For Elevated Installation >20' To 25', Add</i>	38.59	
			<i>For Elevated Installation >25' To 30', Add</i>	54.03	
			<i>For Elevated Installation >30' To 35', Add</i>	61.75	
			<i>For Elevated Installation >35' To 40', Add</i>	77.19	
			<i>For Elevated Installation >40', Add</i>	84.90	
26 05 33	13-0080	EA	5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	497.18	100.70
			<i>For Work In Restricted Working Space, Add</i>	75.53	
			<i>For Elevated Installation >10' To 15', Add</i>	25.18	
			<i>For Elevated Installation >15' To 20', Add</i>	50.35	
			<i>For Elevated Installation >20' To 25', Add</i>	62.94	
			<i>For Elevated Installation >25' To 30', Add</i>	88.12	
			<i>For Elevated Installation >30' To 35', Add</i>	100.70	
			<i>For Elevated Installation >35' To 40', Add</i>	125.88	
			<i>For Elevated Installation >40', Add</i>	138.47	
26 05 33	13-0081	EA	6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	747.43	151.27
			<i>For Work In Restricted Working Space, Add</i>	113.45	
			<i>For Elevated Installation >10' To 15', Add</i>	37.82	
			<i>For Elevated Installation >15' To 20', Add</i>	75.63	
			<i>For Elevated Installation >20' To 25', Add</i>	94.54	
			<i>For Elevated Installation >25' To 30', Add</i>	132.35	
			<i>For Elevated Installation >30' To 35', Add</i>	151.26	
			<i>For Elevated Installation >35' To 40', Add</i>	189.08	
			<i>For Elevated Installation >40', Add</i>	207.98	
26 05 33	13-0082		Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <small>(26 05 33 13-0060)</small>		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33	13-0083	EA	1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	33.28	11.07
			<i>For Work In Restricted Working Space, Add</i>	8.33	
			<i>For Elevated Installation >10' To 15', Add</i>	2.78	
			<i>For Elevated Installation >15' To 20', Add</i>	5.56	
			<i>For Elevated Installation >20' To 25', Add</i>	6.95	
			<i>For Elevated Installation >25' To 30', Add</i>	9.72	
			<i>For Elevated Installation >30' To 35', Add</i>	11.11	
			<i>For Elevated Installation >35' To 40', Add</i>	13.89	
			<i>For Elevated Installation >40', Add</i>	15.28	
26 05 33	13-0084	EA	3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	41.79	13.76
			<i>For Work In Restricted Working Space, Add</i>	10.36	
			<i>For Elevated Installation >10' To 15', Add</i>	3.45	
			<i>For Elevated Installation >15' To 20', Add</i>	6.91	
			<i>For Elevated Installation >20' To 25', Add</i>	8.64	
			<i>For Elevated Installation >25' To 30', Add</i>	12.09	
			<i>For Elevated Installation >30' To 35', Add</i>	13.82	
			<i>For Elevated Installation >35' To 40', Add</i>	17.27	
			<i>For Elevated Installation >40', Add</i>	19.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0085 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	53.28	16.89
For Work In Restricted Working Space, Add	12.64	
For Elevated Installation >10' To 15', Add	4.21	
For Elevated Installation >15' To 20', Add	8.42	
For Elevated Installation >20' To 25', Add	10.53	
For Elevated Installation >25' To 30', Add	14.74	
For Elevated Installation >30' To 35', Add	16.85	
For Elevated Installation >35' To 40', Add	21.06	
For Elevated Installation >40', Add	23.17	
26 05 33 13-0086 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	68.00	19.58
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
26 05 33 13-0087 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	78.89	22.48
For Work In Restricted Working Space, Add	16.84	
For Elevated Installation >10' To 15', Add	5.61	
For Elevated Installation >15' To 20', Add	11.23	
For Elevated Installation >20' To 25', Add	14.03	
For Elevated Installation >25' To 30', Add	19.65	
For Elevated Installation >30' To 35', Add	22.45	
For Elevated Installation >35' To 40', Add	28.07	
For Elevated Installation >40', Add	30.87	
26 05 33 13-0088 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	93.04	24.72
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.61	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.96	
26 05 33 13-0089 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	130.70	30.88
For Work In Restricted Working Space, Add	23.16	
For Elevated Installation >10' To 15', Add	7.72	
For Elevated Installation >15' To 20', Add	15.44	
For Elevated Installation >20' To 25', Add	19.30	
For Elevated Installation >25' To 30', Add	27.02	
For Elevated Installation >30' To 35', Add	30.88	
For Elevated Installation >35' To 40', Add	38.60	
For Elevated Installation >40', Add	42.46	
26 05 33 13-0090 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	179.37	42.07
For Work In Restricted Working Space, Add	31.55	
For Elevated Installation >10' To 15', Add	10.52	
For Elevated Installation >15' To 20', Add	21.03	
For Elevated Installation >20' To 25', Add	26.29	
For Elevated Installation >25' To 30', Add	36.81	
For Elevated Installation >30' To 35', Add	42.07	
For Elevated Installation >35' To 40', Add	52.59	
For Elevated Installation >40', Add	57.84	
26 05 33 13-0091 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	236.01	47.44
For Work In Restricted Working Space, Add	35.59	
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.72	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.45	
For Elevated Installation >35' To 40', Add	59.31	
For Elevated Installation >40', Add	65.24	
26 05 33 13-0092 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	287.45	61.76
For Work In Restricted Working Space, Add	46.31	
For Elevated Installation >10' To 15', Add	15.44	
For Elevated Installation >15' To 20', Add	30.87	
For Elevated Installation >20' To 25', Add	38.59	
For Elevated Installation >25' To 30', Add	54.03	
For Elevated Installation >30' To 35', Add	61.75	
For Elevated Installation >35' To 40', Add	77.19	
For Elevated Installation >40', Add	84.90	
26 05 33 13-0093 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	497.18	100.70
For Work In Restricted Working Space, Add	75.53	
For Elevated Installation >10' To 15', Add	25.18	
For Elevated Installation >15' To 20', Add	50.35	
For Elevated Installation >20' To 25', Add	62.94	
For Elevated Installation >25' To 30', Add	88.12	
For Elevated Installation >30' To 35', Add	100.70	
For Elevated Installation >35' To 40', Add	125.88	
For Elevated Installation >40', Add	138.47	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0094	EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	747.43 113.45 37.82 75.63 94.54 132.35 151.26 189.08 207.98	151.27
26 05 33 13-0095	Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <small>(26 05 33 13-0060)</small> See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0096	EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	81.85 16.58 5.53 11.05 13.82 19.34 22.11 27.64 30.40	27.63
26 05 33 13-0097	EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	94.34 19.20 6.40 12.80 16.00 22.40 25.60 32.00 35.20	32.00
26 05 33 13-0098	EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	109.06 21.82 7.27 14.54 18.18 25.45 29.09 36.36 40.00	36.37
26 05 33 13-0099	EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	122.82 24.00 8.00 16.00 20.00 28.00 32.00 40.00 44.00	40.00
26 05 33 13-0100	Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <small>(26 05 33 13-0060)</small> See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0101	EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	88.74 16.58 5.53 11.05 13.82 19.34 22.11 27.64 30.40	27.63
26 05 33 13-0102	EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	103.20 19.20 6.40 12.80 16.00 22.40 25.60 32.00 35.20	32.00
26 05 33 13-0103	EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	113.10 21.82 7.27 14.54 18.18 25.45 29.09 36.36 40.00	36.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0104 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	127.33	40.00
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
26 05 33 13-0105 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	169.05	50.18
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
26 05 33 13-0106 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	227.58	68.36
<i>For Work In Restricted Working Space, Add</i>	41.02	
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	
26 05 33 13-0107 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <small>(26 05 33 13-0060)</small>		
<small>See CSI section 26 05 33 13-2508 for conduit field bending.</small>		
26 05 33 13-0108 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	89.07	27.63
<i>For Work In Restricted Working Space, Add</i>	16.58	
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
26 05 33 13-0109 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	102.32	32.00
<i>For Work In Restricted Working Space, Add</i>	19.20	
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
26 05 33 13-0110 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	117.46	36.37
<i>For Work In Restricted Working Space, Add</i>	21.82	
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
26 05 33 13-0111 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	137.09	40.00
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
26 05 33 13-0112 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	178.15	50.18
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
26 05 33 13-0113 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	234.91	68.36
<i>For Work In Restricted Working Space, Add</i>	41.02	
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0114	EA	3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	292.96	77.09
			<i>For Work In Restricted Working Space, Add</i>	46.25	
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
26 05 33	13-0115	EA	4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	355.80	100.36
			<i>For Work In Restricted Working Space, Add</i>	60.22	
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
26 05 33	13-0116		Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <small>(26 05 33 13-0060)</small>		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33	13-0117	EA	1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	100.06	27.63
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
26 05 33	13-0118	EA	1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	113.11	32.00
			<i>For Work In Restricted Working Space, Add</i>	19.20	
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
26 05 33	13-0119	EA	1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	125.54	36.37
			<i>For Work In Restricted Working Space, Add</i>	21.82	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
26 05 33	13-0120	EA	2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	149.00	40.00
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
26 05 33	13-0121	EA	2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	194.39	50.18
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
26 05 33	13-0122	EA	3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	260.37	68.36
			<i>For Work In Restricted Working Space, Add</i>	41.02	
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.18	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.69	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.20	
26 05 33	13-0123	EA	3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	317.71	77.09
			<i>For Work In Restricted Working Space, Add</i>	46.25	
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0124 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	375.53	100.36
<i>For Work In Restricted Working Space, Add</i>	60.22	
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.15	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.26	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.37	
<i>For Elevated Installation >40', Add</i>	110.40	
 26 05 33 13-0125 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0126 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	99.39	27.63
<i>For Work In Restricted Working Space, Add</i>	16.58	
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
26 05 33 13-0127 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	121.12	32.00
<i>For Work In Restricted Working Space, Add</i>	19.20	
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
26 05 33 13-0128 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	134.22	36.37
<i>For Work In Restricted Working Space, Add</i>	21.82	
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
26 05 33 13-0129 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	160.34	40.00
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
26 05 33 13-0130 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	209.96	50.18
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
26 05 33 13-0131 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	280.47	68.36
<i>For Work In Restricted Working Space, Add</i>	41.02	
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	
26 05 33 13-0132 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	342.17	77.09
<i>For Work In Restricted Working Space, Add</i>	46.25	
<i>For Elevated Installation >10' To 15', Add</i>	15.42	
<i>For Elevated Installation >15' To 20', Add</i>	30.84	
<i>For Elevated Installation >20' To 25', Add</i>	38.55	
<i>For Elevated Installation >25' To 30', Add</i>	53.96	
<i>For Elevated Installation >30' To 35', Add</i>	61.67	
<i>For Elevated Installation >35' To 40', Add</i>	77.09	
<i>For Elevated Installation >40', Add</i>	84.80	
26 05 33 13-0133 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	411.74	100.36
<i>For Work In Restricted Working Space, Add</i>	60.22	
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.15	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.26	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.37	
<i>For Elevated Installation >40', Add</i>	110.40	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0134	EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	598.29 98.18 32.73 65.45 81.82 114.54 130.90 163.63 179.99	163.64
26 05 33 13-0135 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <small>(26 05 33 13-0060)</small>			
See CSI section 26 05 33 13-2508 for conduit field bending.			
26 05 33 13-0136	EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	105.26 16.58 5.53 11.05 13.82 19.34 22.11 27.64 30.40	27.63
26 05 33 13-0137	EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	125.07 19.20 6.40 12.80 16.00 22.40 25.60 32.00 35.20	32.00
26 05 33 13-0138	EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	149.43 21.82 7.27 14.54 18.18 25.45 29.09 36.36 40.00	36.37
26 05 33 13-0139	EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	169.20 24.00 8.00 16.00 20.00 28.00 32.00 40.00 44.00	40.00
26 05 33 13-0140	EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	228.44 30.11 10.04 20.07 25.09 35.13 40.14 50.18 55.20	50.18
26 05 33 13-0141	EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	297.66 41.02 13.67 27.35 34.18 47.86 54.69 68.37 75.20	68.36
26 05 33 13-0142	EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	373.77 46.25 15.42 30.84 38.55 53.96 61.67 77.09 84.80	77.09
26 05 33 13-0143	EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	428.78 60.22 20.07 40.15 50.18 70.26 80.29 100.37 110.40	100.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0144 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	737.28	163.64
For Work In Restricted Working Space, Add	98.18	
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
26 05 33 13-0145 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	942.08	245.82
For Work In Restricted Working Space, Add	147.49	
For Elevated Installation >10' To 15', Add	49.16	
For Elevated Installation >15' To 20', Add	98.32	
For Elevated Installation >20' To 25', Add	122.91	
For Elevated Installation >25' To 30', Add	172.07	
For Elevated Installation >30' To 35', Add	196.65	
For Elevated Installation >35' To 40', Add	245.81	
For Elevated Installation >40', Add	270.39	
26 05 33 13-0146 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0147 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	113.86	27.63
For Work In Restricted Working Space, Add	16.58	
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.11	
For Elevated Installation >35' To 40', Add	27.64	
For Elevated Installation >40', Add	30.40	
26 05 33 13-0148 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	135.57	32.00
For Work In Restricted Working Space, Add	19.20	
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
26 05 33 13-0149 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	160.59	36.37
For Work In Restricted Working Space, Add	21.82	
For Elevated Installation >10' To 15', Add	7.27	
For Elevated Installation >15' To 20', Add	14.54	
For Elevated Installation >20' To 25', Add	18.18	
For Elevated Installation >25' To 30', Add	25.45	
For Elevated Installation >30' To 35', Add	29.09	
For Elevated Installation >35' To 40', Add	36.36	
For Elevated Installation >40', Add	40.00	
26 05 33 13-0150 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	180.87	40.00
For Work In Restricted Working Space, Add	24.00	
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
26 05 33 13-0151 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	242.57	50.18
For Work In Restricted Working Space, Add	30.11	
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.15	
For Elevated Installation >35' To 40', Add	50.19	
For Elevated Installation >40', Add	55.20	
26 05 33 13-0152 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	322.85	68.36
For Work In Restricted Working Space, Add	41.02	
For Elevated Installation >10' To 15', Add	13.67	
For Elevated Installation >15' To 20', Add	27.35	
For Elevated Installation >20' To 25', Add	34.18	
For Elevated Installation >25' To 30', Add	47.86	
For Elevated Installation >30' To 35', Add	54.69	
For Elevated Installation >35' To 40', Add	68.37	
For Elevated Installation >40', Add	75.20	
26 05 33 13-0153 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	399.03	77.09
For Work In Restricted Working Space, Add	46.25	
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.84	
For Elevated Installation >20' To 25', Add	38.55	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.80	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0154	EA	4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	501.46	100.36
			<i>For Work In Restricted Working Space, Add</i>	60.22	
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
26 05 33	13-0155	EA	5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	837.55	163.64
			<i>For Work In Restricted Working Space, Add</i>	98.18	
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.45	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.54	
			<i>For Elevated Installation >30' To 35', Add</i>	130.90	
			<i>For Elevated Installation >35' To 40', Add</i>	163.63	
			<i>For Elevated Installation >40', Add</i>	179.99	
26 05 33	13-0156	EA	6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	1,028.90	245.82
			<i>For Work In Restricted Working Space, Add</i>	147.49	
			<i>For Elevated Installation >10' To 15', Add</i>	49.16	
			<i>For Elevated Installation >15' To 20', Add</i>	98.32	
			<i>For Elevated Installation >20' To 25', Add</i>	122.91	
			<i>For Elevated Installation >25' To 30', Add</i>	172.07	
			<i>For Elevated Installation >30' To 35', Add</i>	196.65	
			<i>For Elevated Installation >35' To 40', Add</i>	245.81	
			<i>For Elevated Installation >40', Add</i>	270.39	
26 05 33	13-0157		Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0060)</small>		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33	13-0158	EA	1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	121.02	27.63
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
26 05 33	13-0159	EA	1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	143.66	32.00
			<i>For Work In Restricted Working Space, Add</i>	19.20	
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
26 05 33	13-0160	EA	1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	167.65	36.37
			<i>For Work In Restricted Working Space, Add</i>	21.82	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
26 05 33	13-0161	EA	2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	202.68	40.00
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
26 05 33	13-0162	EA	2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	268.63	50.18
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.15	
			<i>For Elevated Installation >35' To 40', Add</i>	50.19	
			<i>For Elevated Installation >40', Add</i>	55.20	
26 05 33	13-0163	EA	3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	348.23	68.36
			<i>For Work In Restricted Working Space, Add</i>	41.02	
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.18	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.69	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0164 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	430.79	77.09
For Work In Restricted Working Space, Add	46.25	
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.84	
For Elevated Installation >20' To 25', Add	38.55	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.80	
26 05 33 13-0165 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	540.04	100.36
For Work In Restricted Working Space, Add	60.22	
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.15	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.26	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.37	
For Elevated Installation >40', Add	110.40	
26 05 33 13-0166 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	868.95	163.64
For Work In Restricted Working Space, Add	98.18	
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
26 05 33 13-0167 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,046.47	245.82
For Work In Restricted Working Space, Add	147.49	
For Elevated Installation >10' To 15', Add	49.16	
For Elevated Installation >15' To 20', Add	98.32	
For Elevated Installation >20' To 25', Add	122.91	
For Elevated Installation >25' To 30', Add	172.07	
For Elevated Installation >30' To 35', Add	196.65	
For Elevated Installation >35' To 40', Add	245.81	
For Elevated Installation >40', Add	270.39	
26 05 33 13-0168 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <small>(26 05 33 13-0060)</small>		
26 05 33 13-0169 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	14.65	7.14
For Work In Restricted Working Space, Add	4.28	
For Elevated Installation >10' To 15', Add	1.43	
For Elevated Installation >15' To 20', Add	2.85	
For Elevated Installation >20' To 25', Add	3.57	
For Elevated Installation >25' To 30', Add	4.99	
For Elevated Installation >30' To 35', Add	5.70	
For Elevated Installation >35' To 40', Add	7.13	
For Elevated Installation >40', Add	7.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.28	
26 05 33 13-0170 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	15.73	7.61
For Work In Restricted Working Space, Add	4.57	
For Elevated Installation >10' To 15', Add	1.52	
For Elevated Installation >15' To 20', Add	3.04	
For Elevated Installation >20' To 25', Add	3.81	
For Elevated Installation >25' To 30', Add	5.33	
For Elevated Installation >30' To 35', Add	6.09	
For Elevated Installation >35' To 40', Add	7.61	
For Elevated Installation >40', Add	8.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.57	
26 05 33 13-0171 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	17.89	8.56
For Work In Restricted Working Space, Add	5.13	
For Elevated Installation >10' To 15', Add	1.71	
For Elevated Installation >15' To 20', Add	3.42	
For Elevated Installation >20' To 25', Add	4.28	
For Elevated Installation >25' To 30', Add	5.99	
For Elevated Installation >30' To 35', Add	6.84	
For Elevated Installation >35' To 40', Add	8.56	
For Elevated Installation >40', Add	9.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-0172 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	20.14	9.51
For Work In Restricted Working Space, Add	5.71	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.80	
For Elevated Installation >20' To 25', Add	4.76	
For Elevated Installation >25' To 30', Add	6.66	
For Elevated Installation >30' To 35', Add	7.61	
For Elevated Installation >35' To 40', Add	9.51	
For Elevated Installation >40', Add	10.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.71	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0173	EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	25.32	11.88
	<i>For Work In Restricted Working Space, Add</i>	7.13	
	<i>For Elevated Installation >10' To 15', Add</i>	2.38	
	<i>For Elevated Installation >15' To 20', Add</i>	4.76	
	<i>For Elevated Installation >20' To 25', Add</i>	5.95	
	<i>For Elevated Installation >25' To 30', Add</i>	8.32	
	<i>For Elevated Installation >30' To 35', Add</i>	9.51	
	<i>For Elevated Installation >35' To 40', Add</i>	11.89	
	<i>For Elevated Installation >40', Add</i>	13.08	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0174	EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	31.38	14.26
	<i>For Work In Restricted Working Space, Add</i>	8.56	
	<i>For Elevated Installation >10' To 15', Add</i>	2.85	
	<i>For Elevated Installation >15' To 20', Add</i>	5.71	
	<i>For Elevated Installation >20' To 25', Add</i>	7.13	
	<i>For Elevated Installation >25' To 30', Add</i>	9.99	
	<i>For Elevated Installation >30' To 35', Add</i>	11.41	
	<i>For Elevated Installation >35' To 40', Add</i>	14.27	
	<i>For Elevated Installation >40', Add</i>	15.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.56	
26 05 33 13-0175	EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	39.59	16.64
	<i>For Work In Restricted Working Space, Add</i>	9.99	
	<i>For Elevated Installation >10' To 15', Add</i>	3.33	
	<i>For Elevated Installation >15' To 20', Add</i>	6.66	
	<i>For Elevated Installation >20' To 25', Add</i>	8.32	
	<i>For Elevated Installation >25' To 30', Add</i>	11.65	
	<i>For Elevated Installation >30' To 35', Add</i>	13.32	
	<i>For Elevated Installation >35' To 40', Add</i>	16.65	
	<i>For Elevated Installation >40', Add</i>	18.31	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.99	
26 05 33 13-0176	EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	44.68	19.02
	<i>For Work In Restricted Working Space, Add</i>	11.41	
	<i>For Elevated Installation >10' To 15', Add</i>	3.80	
	<i>For Elevated Installation >15' To 20', Add</i>	7.61	
	<i>For Elevated Installation >20' To 25', Add</i>	9.51	
	<i>For Elevated Installation >25' To 30', Add</i>	13.31	
	<i>For Elevated Installation >30' To 35', Add</i>	15.22	
	<i>For Elevated Installation >35' To 40', Add</i>	19.02	
	<i>For Elevated Installation >40', Add</i>	20.92	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-0177	EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	52.02	17.90
	<i>For Work In Restricted Working Space, Add</i>	12.84	
	<i>For Elevated Installation >10' To 15', Add</i>	4.28	
	<i>For Elevated Installation >15' To 20', Add</i>	8.56	
	<i>For Elevated Installation >20' To 25', Add</i>	10.70	
	<i>For Elevated Installation >25' To 30', Add</i>	14.98	
	<i>For Elevated Installation >30' To 35', Add</i>	17.12	
	<i>For Elevated Installation >35' To 40', Add</i>	21.40	
	<i>For Elevated Installation >40', Add</i>	23.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.84	
26 05 33 13-0178	EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	57.71	23.78
	<i>For Work In Restricted Working Space, Add</i>	14.27	
	<i>For Elevated Installation >10' To 15', Add</i>	4.76	
	<i>For Elevated Installation >15' To 20', Add</i>	9.51	
	<i>For Elevated Installation >20' To 25', Add</i>	11.89	
	<i>For Elevated Installation >25' To 30', Add</i>	16.64	
	<i>For Elevated Installation >30' To 35', Add</i>	19.02	
	<i>For Elevated Installation >35' To 40', Add</i>	23.78	
	<i>For Elevated Installation >40', Add</i>	26.15	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.27	
26 05 33 13-0179	EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	69.63	26.15
	<i>For Work In Restricted Working Space, Add</i>	15.69	
	<i>For Elevated Installation >10' To 15', Add</i>	5.23	
	<i>For Elevated Installation >15' To 20', Add</i>	10.46	
	<i>For Elevated Installation >20' To 25', Add</i>	13.08	
	<i>For Elevated Installation >25' To 30', Add</i>	18.31	
	<i>For Elevated Installation >30' To 35', Add</i>	20.92	
	<i>For Elevated Installation >35' To 40', Add</i>	26.16	
	<i>For Elevated Installation >40', Add</i>	28.77	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	
26 05 33 13-0180	EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	100.94	28.53
	<i>For Work In Restricted Working Space, Add</i>	17.12	
	<i>For Elevated Installation >10' To 15', Add</i>	5.71	
	<i>For Elevated Installation >15' To 20', Add</i>	11.41	
	<i>For Elevated Installation >20' To 25', Add</i>	14.27	
	<i>For Elevated Installation >25' To 30', Add</i>	19.97	
	<i>For Elevated Installation >30' To 35', Add</i>	22.83	
	<i>For Elevated Installation >35' To 40', Add</i>	28.54	
	<i>For Elevated Installation >40', Add</i>	31.39	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.12	

26 05 33 13-0181 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0182 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing	17.74	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0183 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing	19.31	8.95
For Work In Restricted Working Space, Add	5.37	
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.48	
For Elevated Installation >25' To 30', Add	6.27	
For Elevated Installation >30' To 35', Add	7.16	
For Elevated Installation >35' To 40', Add	8.95	
For Elevated Installation >40', Add	9.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.37	
26 05 33 13-0184 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing	22.58	10.07
For Work In Restricted Working Space, Add	6.04	
For Elevated Installation >10' To 15', Add	2.01	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.07	
For Elevated Installation >40', Add	11.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 05 33 13-0185 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	25.39	11.19
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.47	
For Elevated Installation >20' To 25', Add	5.59	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 05 33 13-0186 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	32.44	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0187 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing	38.37	16.78
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0188 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	54.24	19.58
For Work In Restricted Working Space, Add	11.75	
For Elevated Installation >10' To 15', Add	3.92	
For Elevated Installation >15' To 20', Add	7.83	
For Elevated Installation >20' To 25', Add	9.79	
For Elevated Installation >25' To 30', Add	13.71	
For Elevated Installation >30' To 35', Add	15.66	
For Elevated Installation >35' To 40', Add	19.58	
For Elevated Installation >40', Add	21.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.75	
26 05 33 13-0189 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing	64.55	22.37
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0190	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	96.56	25.17
			<i>For Work In Restricted Working Space, Add</i>	15.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.07	
			<i>For Elevated Installation >20' To 25', Add</i>	12.59	
			<i>For Elevated Installation >25' To 30', Add</i>	17.62	
			<i>For Elevated Installation >30' To 35', Add</i>	20.14	
			<i>For Elevated Installation >35' To 40', Add</i>	25.18	
			<i>For Elevated Installation >40', Add</i>	27.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.11	
26 05 33 13-0191	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing.....	130.89	27.98
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	
26 05 33 13-0192	EA		5" Rigid Galvanized Steel (RGS) Steel Bushing.....	175.22	30.77
			<i>For Work In Restricted Working Space, Add</i>	18.46	
			<i>For Elevated Installation >10' To 15', Add</i>	6.15	
			<i>For Elevated Installation >15' To 20', Add</i>	12.31	
			<i>For Elevated Installation >20' To 25', Add</i>	15.39	
			<i>For Elevated Installation >25' To 30', Add</i>	21.54	
			<i>For Elevated Installation >30' To 35', Add</i>	24.62	
			<i>For Elevated Installation >35' To 40', Add</i>	30.77	
			<i>For Elevated Installation >40', Add</i>	33.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 05 33 13-0193	EA		6" Rigid Galvanized Steel (RGS) Steel Bushing.....	258.99	33.57
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.14	
26 05 33 13-0194			Rigid Galvanized Steel (RGS) Steel Insulated Bushing <small>(26 05 33 13-0060)</small>		
26 05 33 13-0195	EA		1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	18.88	8.39
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.36	
			<i>For Elevated Installation >20' To 25', Add</i>	4.20	
			<i>For Elevated Installation >25' To 30', Add</i>	5.87	
			<i>For Elevated Installation >30' To 35', Add</i>	6.71	
			<i>For Elevated Installation >35' To 40', Add</i>	8.39	
			<i>For Elevated Installation >40', Add</i>	9.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0196	EA		3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.02	8.95
			<i>For Work In Restricted Working Space, Add</i>	5.37	
			<i>For Elevated Installation >10' To 15', Add</i>	1.79	
			<i>For Elevated Installation >15' To 20', Add</i>	3.58	
			<i>For Elevated Installation >20' To 25', Add</i>	4.48	
			<i>For Elevated Installation >25' To 30', Add</i>	6.27	
			<i>For Elevated Installation >30' To 35', Add</i>	7.16	
			<i>For Elevated Installation >35' To 40', Add</i>	8.95	
			<i>For Elevated Installation >40', Add</i>	9.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.37	
26 05 33 13-0197	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	24.74	10.07
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Elevated Installation >10' To 15', Add</i>	2.01	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Elevated Installation >20' To 25', Add</i>	5.04	
			<i>For Elevated Installation >25' To 30', Add</i>	7.05	
			<i>For Elevated Installation >30' To 35', Add</i>	8.06	
			<i>For Elevated Installation >35' To 40', Add</i>	10.07	
			<i>For Elevated Installation >40', Add</i>	11.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 33 13-0198	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	29.03	11.19
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.47	
			<i>For Elevated Installation >20' To 25', Add</i>	5.59	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0199 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	36.24	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0200 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	45.10	16.78
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0201 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	63.37	19.58
For Work In Restricted Working Space, Add	11.75	
For Elevated Installation >10' To 15', Add	3.92	
For Elevated Installation >15' To 20', Add	7.83	
For Elevated Installation >20' To 25', Add	9.79	
For Elevated Installation >25' To 30', Add	13.71	
For Elevated Installation >30' To 35', Add	15.66	
For Elevated Installation >35' To 40', Add	19.58	
For Elevated Installation >40', Add	21.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.75	
26 05 33 13-0202 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	75.25	22.37
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 33 13-0203 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	98.55	25.17
For Work In Restricted Working Space, Add	15.11	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.18	
For Elevated Installation >40', Add	27.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.11	
26 05 33 13-0204 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	139.80	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0205 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	184.93	30.77
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-0206 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	262.42	33.57
For Work In Restricted Working Space, Add	20.14	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.14	

26 05 33 13-0207 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0208	EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	28.61	10.07
	<i>For Work In Restricted Working Space, Add</i>	6.04	
	<i>For Elevated Installation >10' To 15', Add</i>	2.01	
	<i>For Elevated Installation >15' To 20', Add</i>	4.03	
	<i>For Elevated Installation >20' To 25', Add</i>	5.04	
	<i>For Elevated Installation >25' To 30', Add</i>	7.05	
	<i>For Elevated Installation >30' To 35', Add</i>	8.06	
	<i>For Elevated Installation >35' To 40', Add</i>	10.07	
	<i>For Elevated Installation >40', Add</i>	11.08	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 33 13-0209	EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	32.04	11.19
	<i>For Work In Restricted Working Space, Add</i>	6.71	
	<i>For Elevated Installation >10' To 15', Add</i>	2.24	
	<i>For Elevated Installation >15' To 20', Add</i>	4.47	
	<i>For Elevated Installation >20' To 25', Add</i>	5.59	
	<i>For Elevated Installation >25' To 30', Add</i>	7.83	
	<i>For Elevated Installation >30' To 35', Add</i>	8.95	
	<i>For Elevated Installation >35' To 40', Add</i>	11.19	
	<i>For Elevated Installation >40', Add</i>	12.30	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.71	
26 05 33 13-0210	EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	36.67	12.31
	<i>For Work In Restricted Working Space, Add</i>	7.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.46	
	<i>For Elevated Installation >15' To 20', Add</i>	4.92	
	<i>For Elevated Installation >20' To 25', Add</i>	6.15	
	<i>For Elevated Installation >25' To 30', Add</i>	8.61	
	<i>For Elevated Installation >30' To 35', Add</i>	9.84	
	<i>For Elevated Installation >35' To 40', Add</i>	12.31	
	<i>For Elevated Installation >40', Add</i>	13.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-0211	EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	43.58	13.98
	<i>For Work In Restricted Working Space, Add</i>	8.39	
	<i>For Elevated Installation >10' To 15', Add</i>	2.80	
	<i>For Elevated Installation >15' To 20', Add</i>	5.60	
	<i>For Elevated Installation >20' To 25', Add</i>	7.00	
	<i>For Elevated Installation >25' To 30', Add</i>	9.79	
	<i>For Elevated Installation >30' To 35', Add</i>	11.19	
	<i>For Elevated Installation >35' To 40', Add</i>	13.99	
	<i>For Elevated Installation >40', Add</i>	15.39	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-0212	EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	52.68	17.35
	<i>For Work In Restricted Working Space, Add</i>	10.40	
	<i>For Elevated Installation >10' To 15', Add</i>	3.47	
	<i>For Elevated Installation >15' To 20', Add</i>	6.94	
	<i>For Elevated Installation >20' To 25', Add</i>	8.67	
	<i>For Elevated Installation >25' To 30', Add</i>	12.14	
	<i>For Elevated Installation >30' To 35', Add</i>	13.87	
	<i>For Elevated Installation >35' To 40', Add</i>	17.34	
	<i>For Elevated Installation >40', Add</i>	19.07	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-0213	EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	66.41	20.70
	<i>For Work In Restricted Working Space, Add</i>	12.42	
	<i>For Elevated Installation >10' To 15', Add</i>	4.14	
	<i>For Elevated Installation >15' To 20', Add</i>	8.28	
	<i>For Elevated Installation >20' To 25', Add</i>	10.35	
	<i>For Elevated Installation >25' To 30', Add</i>	14.49	
	<i>For Elevated Installation >30' To 35', Add</i>	16.56	
	<i>For Elevated Installation >35' To 40', Add</i>	20.70	
	<i>For Elevated Installation >40', Add</i>	22.77	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.42	
26 05 33 13-0214	EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	88.97	24.05
	<i>For Work In Restricted Working Space, Add</i>	14.43	
	<i>For Elevated Installation >10' To 15', Add</i>	4.81	
	<i>For Elevated Installation >15' To 20', Add</i>	9.62	
	<i>For Elevated Installation >20' To 25', Add</i>	12.03	
	<i>For Elevated Installation >25' To 30', Add</i>	16.84	
	<i>For Elevated Installation >30' To 35', Add</i>	19.24	
	<i>For Elevated Installation >35' To 40', Add</i>	24.06	
	<i>For Elevated Installation >40', Add</i>	26.46	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.43	
26 05 33 13-0215	EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	98.09	27.98
	<i>For Work In Restricted Working Space, Add</i>	16.78	
	<i>For Elevated Installation >10' To 15', Add</i>	5.59	
	<i>For Elevated Installation >15' To 20', Add</i>	11.19	
	<i>For Elevated Installation >20' To 25', Add</i>	13.99	
	<i>For Elevated Installation >25' To 30', Add</i>	19.58	
	<i>For Elevated Installation >30' To 35', Add</i>	22.38	
	<i>For Elevated Installation >35' To 40', Add</i>	27.97	
	<i>For Elevated Installation >40', Add</i>	30.77	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0216 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	110.93	31.33
For Work In Restricted Working Space, Add	18.80	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.53	
For Elevated Installation >20' To 25', Add	15.67	
For Elevated Installation >25' To 30', Add	21.93	
For Elevated Installation >30' To 35', Add	25.06	
For Elevated Installation >35' To 40', Add	31.33	
For Elevated Installation >40', Add	34.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.80	
26 05 33 13-0217 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	143.26	34.68
For Work In Restricted Working Space, Add	20.81	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.87	
For Elevated Installation >20' To 25', Add	17.34	
For Elevated Installation >25' To 30', Add	24.28	
For Elevated Installation >30' To 35', Add	27.75	
For Elevated Installation >35' To 40', Add	34.69	
For Elevated Installation >40', Add	38.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.81	
26 05 33 13-0218 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	203.28	38.04
For Work In Restricted Working Space, Add	22.83	
For Elevated Installation >10' To 15', Add	7.61	
For Elevated Installation >15' To 20', Add	15.22	
For Elevated Installation >20' To 25', Add	19.02	
For Elevated Installation >25' To 30', Add	26.63	
For Elevated Installation >30' To 35', Add	30.44	
For Elevated Installation >35' To 40', Add	38.05	
For Elevated Installation >40', Add	41.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.83	
26 05 33 13-0219 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	279.98	41.96
For Work In Restricted Working Space, Add	25.18	
For Elevated Installation >10' To 15', Add	8.39	
For Elevated Installation >15' To 20', Add	16.78	
For Elevated Installation >20' To 25', Add	20.98	
For Elevated Installation >25' To 30', Add	29.37	
For Elevated Installation >30' To 35', Add	33.57	
For Elevated Installation >35' To 40', Add	41.96	
For Elevated Installation >40', Add	46.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.18	
26 05 33 13-0220 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw <small>(26 05 33 13-0060)</small>		
26 05 33 13-0221 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	17.29	5.15
For Work In Restricted Working Space, Add	3.83	
For Elevated Installation >10' To 15', Add	1.28	
For Elevated Installation >15' To 20', Add	2.55	
For Elevated Installation >20' To 25', Add	3.19	
For Elevated Installation >25' To 30', Add	4.47	
For Elevated Installation >30' To 35', Add	5.11	
For Elevated Installation >35' To 40', Add	6.39	
For Elevated Installation >40', Add	7.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.83	
26 05 33 13-0222 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	21.05	5.93
For Work In Restricted Working Space, Add	4.43	
For Elevated Installation >10' To 15', Add	1.48	
For Elevated Installation >15' To 20', Add	2.96	
For Elevated Installation >20' To 25', Add	3.70	
For Elevated Installation >25' To 30', Add	5.17	
For Elevated Installation >30' To 35', Add	5.91	
For Elevated Installation >35' To 40', Add	7.39	
For Elevated Installation >40', Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.43	
26 05 33 13-0223 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	27.82	7.16
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.57	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.92	
For Elevated Installation >40', Add	9.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 33 13-0224 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	41.76	8.84
For Work In Restricted Working Space, Add	6.65	
For Elevated Installation >10' To 15', Add	2.22	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.76	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.08	
For Elevated Installation >40', Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.65	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0225	EA	1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	56.60	11.86
			<i>For Work In Restricted Working Space, Add</i>	8.90	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.42	
			<i>For Elevated Installation >25' To 30', Add</i>	10.39	
			<i>For Elevated Installation >30' To 35', Add</i>	11.87	
			<i>For Elevated Installation >35' To 40', Add</i>	14.84	
			<i>For Elevated Installation >40', Add</i>	16.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.90	
26 05 33	13-0226	EA	2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	97.22	17.79
			<i>For Work In Restricted Working Space, Add</i>	13.34	
			<i>For Elevated Installation >10' To 15', Add</i>	4.45	
			<i>For Elevated Installation >15' To 20', Add</i>	8.89	
			<i>For Elevated Installation >20' To 25', Add</i>	11.11	
			<i>For Elevated Installation >25' To 30', Add</i>	15.56	
			<i>For Elevated Installation >30' To 35', Add</i>	17.78	
			<i>For Elevated Installation >35' To 40', Add</i>	22.23	
			<i>For Elevated Installation >40', Add</i>	24.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.34	
26 05 33	13-0227	EA	2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	179.83	19.69
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.92	
			<i>For Elevated Installation >15' To 20', Add</i>	9.85	
			<i>For Elevated Installation >20' To 25', Add</i>	12.31	
			<i>For Elevated Installation >25' To 30', Add</i>	17.23	
			<i>For Elevated Installation >30' To 35', Add</i>	19.69	
			<i>For Elevated Installation >35' To 40', Add</i>	24.62	
			<i>For Elevated Installation >40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-0228	EA	3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	214.21	23.83
			<i>For Work In Restricted Working Space, Add</i>	17.89	
			<i>For Elevated Installation >10' To 15', Add</i>	5.96	
			<i>For Elevated Installation >15' To 20', Add</i>	11.92	
			<i>For Elevated Installation >20' To 25', Add</i>	14.91	
			<i>For Elevated Installation >25' To 30', Add</i>	20.87	
			<i>For Elevated Installation >30' To 35', Add</i>	23.85	
			<i>For Elevated Installation >35' To 40', Add</i>	29.81	
			<i>For Elevated Installation >40', Add</i>	32.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.89	
26 05 33	13-0229	EA	3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	290.53	29.87
			<i>For Work In Restricted Working Space, Add</i>	22.39	
			<i>For Elevated Installation >10' To 15', Add</i>	7.46	
			<i>For Elevated Installation >15' To 20', Add</i>	14.93	
			<i>For Elevated Installation >20' To 25', Add</i>	18.66	
			<i>For Elevated Installation >25' To 30', Add</i>	26.12	
			<i>For Elevated Installation >30' To 35', Add</i>	29.86	
			<i>For Elevated Installation >35' To 40', Add</i>	37.32	
			<i>For Elevated Installation >40', Add</i>	41.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.39	
26 05 33	13-0230	EA	4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	340.05	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.85	
26 05 33	13-0231	EA	5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	605.88	39.83
			<i>For Work In Restricted Working Space, Add</i>	29.84	
			<i>For Elevated Installation >10' To 15', Add</i>	9.95	
			<i>For Elevated Installation >15' To 20', Add</i>	19.89	
			<i>For Elevated Installation >20' To 25', Add</i>	24.87	
			<i>For Elevated Installation >25' To 30', Add</i>	34.81	
			<i>For Elevated Installation >30' To 35', Add</i>	39.79	
			<i>For Elevated Installation >35' To 40', Add</i>	49.74	
			<i>For Elevated Installation >40', Add</i>	54.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.84	
26 05 33	13-0232	EA	6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	724.88	44.76
			<i>For Work In Restricted Working Space, Add</i>	33.56	
			<i>For Elevated Installation >10' To 15', Add</i>	11.19	
			<i>For Elevated Installation >15' To 20', Add</i>	22.37	
			<i>For Elevated Installation >20' To 25', Add</i>	27.97	
			<i>For Elevated Installation >25' To 30', Add</i>	39.15	
			<i>For Elevated Installation >30' To 35', Add</i>	44.74	
			<i>For Elevated Installation >35' To 40', Add</i>	55.93	
			<i>For Elevated Installation >40', Add</i>	61.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.56	

26 05 33 13-0233 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0234 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.36	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0235 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.83	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0236 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.12	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0237 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.25	12.31
For Work In Restricted Working Space, Add	7.38	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.61	
For Elevated Installation >30' To 35', Add	9.84	
For Elevated Installation >35' To 40', Add	12.31	
For Elevated Installation >40', Add	13.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 05 33 13-0238 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.29	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0239 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.51	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0240 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.06	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0241 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.37	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0242	EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.60	12.31
	<i>For Work In Restricted Working Space, Add</i>	7.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.46	
	<i>For Elevated Installation >15' To 20', Add</i>	4.92	
	<i>For Elevated Installation >20' To 25', Add</i>	6.15	
	<i>For Elevated Installation >25' To 30', Add</i>	8.61	
	<i>For Elevated Installation >30' To 35', Add</i>	9.84	
	<i>For Elevated Installation >35' To 40', Add</i>	12.31	
	<i>For Elevated Installation >40', Add</i>	13.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-0243	EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.84	13.98
	<i>For Work In Restricted Working Space, Add</i>	8.39	
	<i>For Elevated Installation >10' To 15', Add</i>	2.80	
	<i>For Elevated Installation >15' To 20', Add</i>	5.59	
	<i>For Elevated Installation >20' To 25', Add</i>	6.99	
	<i>For Elevated Installation >25' To 30', Add</i>	9.79	
	<i>For Elevated Installation >30' To 35', Add</i>	11.19	
	<i>For Elevated Installation >35' To 40', Add</i>	13.99	
	<i>For Elevated Installation >40', Add</i>	15.38	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-0244	EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.21	15.66
	<i>For Work In Restricted Working Space, Add</i>	9.40	
	<i>For Elevated Installation >10' To 15', Add</i>	3.13	
	<i>For Elevated Installation >15' To 20', Add</i>	6.27	
	<i>For Elevated Installation >20' To 25', Add</i>	7.83	
	<i>For Elevated Installation >25' To 30', Add</i>	10.97	
	<i>For Elevated Installation >30' To 35', Add</i>	12.53	
	<i>For Elevated Installation >35' To 40', Add</i>	15.67	
	<i>For Elevated Installation >40', Add</i>	17.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-0245	EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.67	7.28
	<i>For Work In Restricted Working Space, Add</i>	4.36	
	<i>For Elevated Installation >10' To 15', Add</i>	1.45	
	<i>For Elevated Installation >15' To 20', Add</i>	2.91	
	<i>For Elevated Installation >20' To 25', Add</i>	3.64	
	<i>For Elevated Installation >25' To 30', Add</i>	5.09	
	<i>For Elevated Installation >30' To 35', Add</i>	5.82	
	<i>For Elevated Installation >35' To 40', Add</i>	7.27	
	<i>For Elevated Installation >40', Add</i>	8.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-0246	EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.27	8.39
	<i>For Work In Restricted Working Space, Add</i>	5.03	
	<i>For Elevated Installation >10' To 15', Add</i>	1.68	
	<i>For Elevated Installation >15' To 20', Add</i>	3.36	
	<i>For Elevated Installation >20' To 25', Add</i>	4.20	
	<i>For Elevated Installation >25' To 30', Add</i>	5.87	
	<i>For Elevated Installation >30' To 35', Add</i>	6.71	
	<i>For Elevated Installation >35' To 40', Add</i>	8.39	
	<i>For Elevated Installation >40', Add</i>	9.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0247	EA 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.73	10.63
	<i>For Work In Restricted Working Space, Add</i>	6.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.13	
	<i>For Elevated Installation >15' To 20', Add</i>	4.25	
	<i>For Elevated Installation >20' To 25', Add</i>	5.32	
	<i>For Elevated Installation >25' To 30', Add</i>	7.44	
	<i>For Elevated Installation >30' To 35', Add</i>	8.50	
	<i>For Elevated Installation >35' To 40', Add</i>	10.63	
	<i>For Elevated Installation >40', Add</i>	11.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-0248	EA 1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.91	12.31
	<i>For Work In Restricted Working Space, Add</i>	7.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.46	
	<i>For Elevated Installation >15' To 20', Add</i>	4.92	
	<i>For Elevated Installation >20' To 25', Add</i>	6.15	
	<i>For Elevated Installation >25' To 30', Add</i>	8.61	
	<i>For Elevated Installation >30' To 35', Add</i>	9.84	
	<i>For Elevated Installation >35' To 40', Add</i>	12.31	
	<i>For Elevated Installation >40', Add</i>	13.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-0249	EA 1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.21	13.98
	<i>For Work In Restricted Working Space, Add</i>	8.39	
	<i>For Elevated Installation >10' To 15', Add</i>	2.80	
	<i>For Elevated Installation >15' To 20', Add</i>	5.59	
	<i>For Elevated Installation >20' To 25', Add</i>	6.99	
	<i>For Elevated Installation >25' To 30', Add</i>	9.79	
	<i>For Elevated Installation >30' To 35', Add</i>	11.19	
	<i>For Elevated Installation >35' To 40', Add</i>	13.99	
	<i>For Elevated Installation >40', Add</i>	15.38	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0250 EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	38.13	15.66
For Work In Restricted Working Space, Add	9.40	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.83	
For Elevated Installation >25' To 30', Add	10.97	
For Elevated Installation >30' To 35', Add	12.53	
For Elevated Installation >35' To 40', Add	15.67	
For Elevated Installation >40', Add	17.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.40	
26 05 33 13-0251 EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	52.09	19.02
For Work In Restricted Working Space, Add	11.41	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.61	
For Elevated Installation >20' To 25', Add	9.51	
For Elevated Installation >25' To 30', Add	13.31	
For Elevated Installation >30' To 35', Add	15.22	
For Elevated Installation >35' To 40', Add	19.02	
For Elevated Installation >40', Add	20.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.41	
26 05 33 13-0252 EA 3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	69.85	26.29
For Work In Restricted Working Space, Add	15.77	
For Elevated Installation >10' To 15', Add	5.26	
For Elevated Installation >15' To 20', Add	10.52	
For Elevated Installation >20' To 25', Add	13.15	
For Elevated Installation >25' To 30', Add	18.40	
For Elevated Installation >30' To 35', Add	21.03	
For Elevated Installation >35' To 40', Add	26.29	
For Elevated Installation >40', Add	28.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.77	
26 05 33 13-0253 EA 1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.87	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0254 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.37	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0255 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.19	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0256 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.50	12.31
For Work In Restricted Working Space, Add	7.38	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.61	
For Elevated Installation >30' To 35', Add	9.84	
For Elevated Installation >35' To 40', Add	12.31	
For Elevated Installation >40', Add	13.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 05 33 13-0257 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.99	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0258	EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple	39.08	15.66
	<i>For Work In Restricted Working Space, Add</i>	9.40	
	<i>For Elevated Installation >10' To 15', Add</i>	3.13	
	<i>For Elevated Installation >15' To 20', Add</i>	6.27	
	<i>For Elevated Installation >20' To 25', Add</i>	7.83	
	<i>For Elevated Installation >25' To 30', Add</i>	10.97	
	<i>For Elevated Installation >30' To 35', Add</i>	12.53	
	<i>For Elevated Installation >35' To 40', Add</i>	15.67	
	<i>For Elevated Installation >40', Add</i>	17.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-0259	EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	54.65	19.02
	<i>For Work In Restricted Working Space, Add</i>	11.41	
	<i>For Elevated Installation >10' To 15', Add</i>	3.80	
	<i>For Elevated Installation >15' To 20', Add</i>	7.61	
	<i>For Elevated Installation >20' To 25', Add</i>	9.51	
	<i>For Elevated Installation >25' To 30', Add</i>	13.31	
	<i>For Elevated Installation >30' To 35', Add</i>	15.22	
	<i>For Elevated Installation >35' To 40', Add</i>	19.02	
	<i>For Elevated Installation >40', Add</i>	20.92	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-0260	EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	72.07	26.29
	<i>For Work In Restricted Working Space, Add</i>	15.77	
	<i>For Elevated Installation >10' To 15', Add</i>	5.26	
	<i>For Elevated Installation >15' To 20', Add</i>	10.52	
	<i>For Elevated Installation >20' To 25', Add</i>	13.15	
	<i>For Elevated Installation >25' To 30', Add</i>	18.40	
	<i>For Elevated Installation >30' To 35', Add</i>	21.03	
	<i>For Elevated Installation >35' To 40', Add</i>	26.29	
	<i>For Elevated Installation >40', Add</i>	28.92	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-0261	EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	17.07	7.28
	<i>For Work In Restricted Working Space, Add</i>	4.36	
	<i>For Elevated Installation >10' To 15', Add</i>	1.45	
	<i>For Elevated Installation >15' To 20', Add</i>	2.91	
	<i>For Elevated Installation >20' To 25', Add</i>	3.64	
	<i>For Elevated Installation >25' To 30', Add</i>	5.09	
	<i>For Elevated Installation >30' To 35', Add</i>	5.82	
	<i>For Elevated Installation >35' To 40', Add</i>	7.27	
	<i>For Elevated Installation >40', Add</i>	8.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-0262	EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	19.73	8.39
	<i>For Work In Restricted Working Space, Add</i>	5.03	
	<i>For Elevated Installation >10' To 15', Add</i>	1.68	
	<i>For Elevated Installation >15' To 20', Add</i>	3.36	
	<i>For Elevated Installation >20' To 25', Add</i>	4.20	
	<i>For Elevated Installation >25' To 30', Add</i>	5.87	
	<i>For Elevated Installation >30' To 35', Add</i>	6.71	
	<i>For Elevated Installation >35' To 40', Add</i>	8.39	
	<i>For Elevated Installation >40', Add</i>	9.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0263	EA 1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	25.48	10.63
	<i>For Work In Restricted Working Space, Add</i>	6.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.13	
	<i>For Elevated Installation >15' To 20', Add</i>	4.25	
	<i>For Elevated Installation >20' To 25', Add</i>	5.32	
	<i>For Elevated Installation >25' To 30', Add</i>	7.44	
	<i>For Elevated Installation >30' To 35', Add</i>	8.50	
	<i>For Elevated Installation >35' To 40', Add</i>	10.63	
	<i>For Elevated Installation >40', Add</i>	11.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-0264	EA 1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	29.78	12.31
	<i>For Work In Restricted Working Space, Add</i>	7.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.46	
	<i>For Elevated Installation >15' To 20', Add</i>	4.92	
	<i>For Elevated Installation >20' To 25', Add</i>	6.15	
	<i>For Elevated Installation >25' To 30', Add</i>	8.61	
	<i>For Elevated Installation >30' To 35', Add</i>	9.84	
	<i>For Elevated Installation >35' To 40', Add</i>	12.31	
	<i>For Elevated Installation >40', Add</i>	13.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-0265	EA 1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	34.53	13.98
	<i>For Work In Restricted Working Space, Add</i>	8.39	
	<i>For Elevated Installation >10' To 15', Add</i>	2.80	
	<i>For Elevated Installation >15' To 20', Add</i>	5.59	
	<i>For Elevated Installation >20' To 25', Add</i>	6.99	
	<i>For Elevated Installation >25' To 30', Add</i>	9.79	
	<i>For Elevated Installation >30' To 35', Add</i>	11.19	
	<i>For Elevated Installation >35' To 40', Add</i>	13.99	
	<i>For Elevated Installation >40', Add</i>	15.38	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0266 EA 2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.88	15.66
For Work In Restricted Working Space, Add	9.40	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.83	
For Elevated Installation >25' To 30', Add	10.97	
For Elevated Installation >30' To 35', Add	12.53	
For Elevated Installation >35' To 40', Add	15.67	
For Elevated Installation >40', Add	17.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.40	
26 05 33 13-0267 EA 2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	55.43	19.02
For Work In Restricted Working Space, Add	11.41	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.61	
For Elevated Installation >20' To 25', Add	9.51	
For Elevated Installation >25' To 30', Add	13.31	
For Elevated Installation >30' To 35', Add	15.22	
For Elevated Installation >35' To 40', Add	19.02	
For Elevated Installation >40', Add	20.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.41	
26 05 33 13-0268 EA 3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	73.70	26.29
For Work In Restricted Working Space, Add	15.77	
For Elevated Installation >10' To 15', Add	5.26	
For Elevated Installation >15' To 20', Add	10.52	
For Elevated Installation >20' To 25', Add	13.15	
For Elevated Installation >25' To 30', Add	18.40	
For Elevated Installation >30' To 35', Add	21.03	
For Elevated Installation >35' To 40', Add	26.29	
For Elevated Installation >40', Add	28.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.77	
26 05 33 13-0269 EA 3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	85.00	29.65
For Work In Restricted Working Space, Add	17.79	
For Elevated Installation >10' To 15', Add	5.93	
For Elevated Installation >15' To 20', Add	11.86	
For Elevated Installation >20' To 25', Add	14.82	
For Elevated Installation >25' To 30', Add	20.75	
For Elevated Installation >30' To 35', Add	23.72	
For Elevated Installation >35' To 40', Add	29.65	
For Elevated Installation >40', Add	32.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0270 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	106.06	38.61
For Work In Restricted Working Space, Add	23.16	
For Elevated Installation >10' To 15', Add	7.72	
For Elevated Installation >15' To 20', Add	15.44	
For Elevated Installation >20' To 25', Add	19.30	
For Elevated Installation >25' To 30', Add	27.02	
For Elevated Installation >30' To 35', Add	30.88	
For Elevated Installation >35' To 40', Add	38.60	
For Elevated Installation >40', Add	42.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 05 33 13-0271 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.37	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0272 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.17	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0273 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.04	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0274	EA	1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	30.60	12.31
			<i>For Work In Restricted Working Space, Add</i>	7.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.31	
			<i>For Elevated Installation >40', Add</i>	13.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33	13-0275	EA	1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	35.33	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.59	
			<i>For Elevated Installation >20' To 25', Add</i>	6.99	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0276	EA	2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	41.31	15.66
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.83	
			<i>For Elevated Installation >25' To 30', Add</i>	10.97	
			<i>For Elevated Installation >30' To 35', Add</i>	12.53	
			<i>For Elevated Installation >35' To 40', Add</i>	15.67	
			<i>For Elevated Installation >40', Add</i>	17.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-0277	EA	2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	58.60	19.02
			<i>For Work In Restricted Working Space, Add</i>	11.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.80	
			<i>For Elevated Installation >15' To 20', Add</i>	7.61	
			<i>For Elevated Installation >20' To 25', Add</i>	9.51	
			<i>For Elevated Installation >25' To 30', Add</i>	13.31	
			<i>For Elevated Installation >30' To 35', Add</i>	15.22	
			<i>For Elevated Installation >35' To 40', Add</i>	19.02	
			<i>For Elevated Installation >40', Add</i>	20.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33	13-0278	EA	3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	77.14	26.29
			<i>For Work In Restricted Working Space, Add</i>	15.77	
			<i>For Elevated Installation >10' To 15', Add</i>	5.26	
			<i>For Elevated Installation >15' To 20', Add</i>	10.52	
			<i>For Elevated Installation >20' To 25', Add</i>	13.15	
			<i>For Elevated Installation >25' To 30', Add</i>	18.40	
			<i>For Elevated Installation >30' To 35', Add</i>	21.03	
			<i>For Elevated Installation >35' To 40', Add</i>	26.29	
			<i>For Elevated Installation >40', Add</i>	28.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33	13-0279	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	88.41	29.65
			<i>For Work In Restricted Working Space, Add</i>	17.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.93	
			<i>For Elevated Installation >15' To 20', Add</i>	11.86	
			<i>For Elevated Installation >20' To 25', Add</i>	14.82	
			<i>For Elevated Installation >25' To 30', Add</i>	20.75	
			<i>For Elevated Installation >30' To 35', Add</i>	23.72	
			<i>For Elevated Installation >35' To 40', Add</i>	29.65	
			<i>For Elevated Installation >40', Add</i>	32.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33	13-0280	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	111.04	38.61
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For Elevated Installation >10' To 15', Add</i>	7.72	
			<i>For Elevated Installation >15' To 20', Add</i>	15.44	
			<i>For Elevated Installation >20' To 25', Add</i>	19.30	
			<i>For Elevated Installation >25' To 30', Add</i>	27.02	
			<i>For Elevated Installation >30' To 35', Add</i>	30.88	
			<i>For Elevated Installation >35' To 40', Add</i>	38.60	
			<i>For Elevated Installation >40', Add</i>	42.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33	13-0281	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	171.98	53.15
			<i>For Work In Restricted Working Space, Add</i>	31.88	
			<i>For Elevated Installation >10' To 15', Add</i>	10.63	
			<i>For Elevated Installation >15' To 20', Add</i>	21.26	
			<i>For Elevated Installation >20' To 25', Add</i>	26.57	
			<i>For Elevated Installation >25' To 30', Add</i>	37.20	
			<i>For Elevated Installation >30' To 35', Add</i>	42.51	
			<i>For Elevated Installation >35' To 40', Add</i>	53.14	
			<i>For Elevated Installation >40', Add</i>	58.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0282 EA 6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	218.24	68.14
For Work In Restricted Working Space, Add	40.91	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.27	
For Elevated Installation >20' To 25', Add	34.09	
For Elevated Installation >25' To 30', Add	47.73	
For Elevated Installation >30' To 35', Add	54.54	
For Elevated Installation >35' To 40', Add	68.18	
For Elevated Installation >40', Add	75.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.91	
26 05 33 13-0283 EA 1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.92	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0284 EA 3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.73	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0285 EA 1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.49	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0286 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.36	12.31
For Work In Restricted Working Space, Add	7.38	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.61	
For Elevated Installation >30' To 35', Add	9.64	
For Elevated Installation >35' To 40', Add	12.31	
For Elevated Installation >40', Add	13.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 05 33 13-0287 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.01	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0288 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.74	15.66
For Work In Restricted Working Space, Add	9.40	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.83	
For Elevated Installation >25' To 30', Add	10.97	
For Elevated Installation >30' To 35', Add	12.53	
For Elevated Installation >35' To 40', Add	15.67	
For Elevated Installation >40', Add	17.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.40	
26 05 33 13-0289 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	61.37	19.02
For Work In Restricted Working Space, Add	11.41	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.61	
For Elevated Installation >20' To 25', Add	9.51	
For Elevated Installation >25' To 30', Add	13.31	
For Elevated Installation >30' To 35', Add	15.22	
For Elevated Installation >35' To 40', Add	19.02	
For Elevated Installation >40', Add	20.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.41	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0290	EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	80.62	26.29
	<i>For Work In Restricted Working Space, Add</i>	15.77	
	<i>For Elevated Installation >10' To 15', Add</i>	5.26	
	<i>For Elevated Installation >15' To 20', Add</i>	10.52	
	<i>For Elevated Installation >20' To 25', Add</i>	13.15	
	<i>For Elevated Installation >25' To 30', Add</i>	18.40	
	<i>For Elevated Installation >30' To 35', Add</i>	21.03	
	<i>For Elevated Installation >35' To 40', Add</i>	26.29	
	<i>For Elevated Installation >40', Add</i>	28.92	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-0291	EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	92.57	29.65
	<i>For Work In Restricted Working Space, Add</i>	17.79	
	<i>For Elevated Installation >10' To 15', Add</i>	5.93	
	<i>For Elevated Installation >15' To 20', Add</i>	11.86	
	<i>For Elevated Installation >20' To 25', Add</i>	14.82	
	<i>For Elevated Installation >25' To 30', Add</i>	20.75	
	<i>For Elevated Installation >30' To 35', Add</i>	23.72	
	<i>For Elevated Installation >35' To 40', Add</i>	29.65	
	<i>For Elevated Installation >40', Add</i>	32.61	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-0292	EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	114.99	38.61
	<i>For Work In Restricted Working Space, Add</i>	23.16	
	<i>For Elevated Installation >10' To 15', Add</i>	7.72	
	<i>For Elevated Installation >15' To 20', Add</i>	15.44	
	<i>For Elevated Installation >20' To 25', Add</i>	19.30	
	<i>For Elevated Installation >25' To 30', Add</i>	27.02	
	<i>For Elevated Installation >30' To 35', Add</i>	30.88	
	<i>For Elevated Installation >35' To 40', Add</i>	38.60	
	<i>For Elevated Installation >40', Add</i>	42.45	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33 13-0293	EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	177.77	53.15
	<i>For Work In Restricted Working Space, Add</i>	31.88	
	<i>For Elevated Installation >10' To 15', Add</i>	10.63	
	<i>For Elevated Installation >15' To 20', Add</i>	21.26	
	<i>For Elevated Installation >20' To 25', Add</i>	26.57	
	<i>For Elevated Installation >25' To 30', Add</i>	37.20	
	<i>For Elevated Installation >30' To 35', Add</i>	42.51	
	<i>For Elevated Installation >35' To 40', Add</i>	53.14	
	<i>For Elevated Installation >40', Add</i>	58.45	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-0294	EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	226.72	68.14
	<i>For Work In Restricted Working Space, Add</i>	40.91	
	<i>For Elevated Installation >10' To 15', Add</i>	13.64	
	<i>For Elevated Installation >15' To 20', Add</i>	27.27	
	<i>For Elevated Installation >20' To 25', Add</i>	34.09	
	<i>For Elevated Installation >25' To 30', Add</i>	47.73	
	<i>For Elevated Installation >30' To 35', Add</i>	54.54	
	<i>For Elevated Installation >35' To 40', Add</i>	68.18	
	<i>For Elevated Installation >40', Add</i>	75.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.91	
26 05 33 13-0295	EA 1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	19.92	7.28
	<i>For Work In Restricted Working Space, Add</i>	4.36	
	<i>For Elevated Installation >10' To 15', Add</i>	1.45	
	<i>For Elevated Installation >15' To 20', Add</i>	2.91	
	<i>For Elevated Installation >20' To 25', Add</i>	3.64	
	<i>For Elevated Installation >25' To 30', Add</i>	5.09	
	<i>For Elevated Installation >30' To 35', Add</i>	5.82	
	<i>For Elevated Installation >35' To 40', Add</i>	7.27	
	<i>For Elevated Installation >40', Add</i>	8.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-0296	EA 3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	23.29	8.39
	<i>For Work In Restricted Working Space, Add</i>	5.03	
	<i>For Elevated Installation >10' To 15', Add</i>	1.68	
	<i>For Elevated Installation >15' To 20', Add</i>	3.36	
	<i>For Elevated Installation >20' To 25', Add</i>	4.20	
	<i>For Elevated Installation >25' To 30', Add</i>	5.87	
	<i>For Elevated Installation >30' To 35', Add</i>	6.71	
	<i>For Elevated Installation >35' To 40', Add</i>	8.39	
	<i>For Elevated Installation >40', Add</i>	9.23	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-0297	EA 1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	29.51	10.63
	<i>For Work In Restricted Working Space, Add</i>	6.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.13	
	<i>For Elevated Installation >15' To 20', Add</i>	4.25	
	<i>For Elevated Installation >20' To 25', Add</i>	5.32	
	<i>For Elevated Installation >25' To 30', Add</i>	7.44	
	<i>For Elevated Installation >30' To 35', Add</i>	8.50	
	<i>For Elevated Installation >35' To 40', Add</i>	10.63	
	<i>For Elevated Installation >40', Add</i>	11.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0298 EA 1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.66	12.31
For Work In Restricted Working Space, Add	7.38	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.61	
For Elevated Installation >30' To 35', Add	9.84	
For Elevated Installation >35' To 40', Add	12.31	
For Elevated Installation >40', Add	13.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 05 33 13-0299 EA 1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	41.80	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0300 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	47.79	15.66
For Work In Restricted Working Space, Add	9.40	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.83	
For Elevated Installation >25' To 30', Add	10.97	
For Elevated Installation >30' To 35', Add	12.53	
For Elevated Installation >35' To 40', Add	15.67	
For Elevated Installation >40', Add	17.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.40	
26 05 33 13-0301 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	68.73	19.02
For Work In Restricted Working Space, Add	11.41	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.61	
For Elevated Installation >20' To 25', Add	9.51	
For Elevated Installation >25' To 30', Add	13.31	
For Elevated Installation >30' To 35', Add	15.22	
For Elevated Installation >35' To 40', Add	19.02	
For Elevated Installation >40', Add	20.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.41	
26 05 33 13-0302 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	89.07	26.29
For Work In Restricted Working Space, Add	15.77	
For Elevated Installation >10' To 15', Add	5.26	
For Elevated Installation >15' To 20', Add	10.52	
For Elevated Installation >20' To 25', Add	13.15	
For Elevated Installation >25' To 30', Add	18.40	
For Elevated Installation >30' To 35', Add	21.03	
For Elevated Installation >35' To 40', Add	26.29	
For Elevated Installation >40', Add	28.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.77	
26 05 33 13-0303 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	101.00	29.65
For Work In Restricted Working Space, Add	17.79	
For Elevated Installation >10' To 15', Add	5.93	
For Elevated Installation >15' To 20', Add	11.86	
For Elevated Installation >20' To 25', Add	14.82	
For Elevated Installation >25' To 30', Add	20.75	
For Elevated Installation >30' To 35', Add	23.72	
For Elevated Installation >35' To 40', Add	29.65	
For Elevated Installation >40', Add	32.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0304 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	124.30	38.61
For Work In Restricted Working Space, Add	23.16	
For Elevated Installation >10' To 15', Add	7.72	
For Elevated Installation >15' To 20', Add	15.44	
For Elevated Installation >20' To 25', Add	19.30	
For Elevated Installation >25' To 30', Add	27.02	
For Elevated Installation >30' To 35', Add	30.88	
For Elevated Installation >35' To 40', Add	38.60	
For Elevated Installation >40', Add	42.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 05 33 13-0305 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	191.19	53.15
For Work In Restricted Working Space, Add	31.88	
For Elevated Installation >10' To 15', Add	10.63	
For Elevated Installation >15' To 20', Add	21.26	
For Elevated Installation >20' To 25', Add	26.57	
For Elevated Installation >25' To 30', Add	37.20	
For Elevated Installation >30' To 35', Add	42.51	
For Elevated Installation >35' To 40', Add	53.14	
For Elevated Installation >40', Add	58.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0306	EA	6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	241.79	68.14
			<i>For Work In Restricted Working Space, Add</i>	40.91	
			<i>For Elevated Installation >10' To 15', Add</i>	13.64	
			<i>For Elevated Installation >15' To 20', Add</i>	27.27	
			<i>For Elevated Installation >20' To 25', Add</i>	34.09	
			<i>For Elevated Installation >25' To 30', Add</i>	47.73	
			<i>For Elevated Installation >30' To 35', Add</i>	54.54	
			<i>For Elevated Installation >35' To 40', Add</i>	68.18	
			<i>For Elevated Installation >40', Add</i>	75.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.91	
26 05 33	13-0307	EA	1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	21.28	7.28
			<i>For Work In Restricted Working Space, Add</i>	4.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33	13-0308	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	24.60	8.39
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.36	
			<i>For Elevated Installation >20' To 25', Add</i>	4.20	
			<i>For Elevated Installation >25' To 30', Add</i>	5.87	
			<i>For Elevated Installation >30' To 35', Add</i>	6.71	
			<i>For Elevated Installation >35' To 40', Add</i>	8.39	
			<i>For Elevated Installation >40', Add</i>	9.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0309	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	31.91	10.63
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.32	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-0310	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	38.51	12.31
			<i>For Work In Restricted Working Space, Add</i>	7.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.31	
			<i>For Elevated Installation >40', Add</i>	13.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33	13-0311	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	44.61	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.59	
			<i>For Elevated Installation >20' To 25', Add</i>	6.99	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0312	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	51.05	15.66
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.83	
			<i>For Elevated Installation >25' To 30', Add</i>	10.97	
			<i>For Elevated Installation >30' To 35', Add</i>	12.53	
			<i>For Elevated Installation >35' To 40', Add</i>	15.67	
			<i>For Elevated Installation >40', Add</i>	17.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-0313	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	73.67	19.02
			<i>For Work In Restricted Working Space, Add</i>	11.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.80	
			<i>For Elevated Installation >15' To 20', Add</i>	7.61	
			<i>For Elevated Installation >20' To 25', Add</i>	9.51	
			<i>For Elevated Installation >25' To 30', Add</i>	13.31	
			<i>For Elevated Installation >30' To 35', Add</i>	15.22	
			<i>For Elevated Installation >35' To 40', Add</i>	19.02	
			<i>For Elevated Installation >40', Add</i>	20.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0314 EA 3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	95.70	26.29
For Work In Restricted Working Space, Add	15.77	
For Elevated Installation >10' To 15', Add	5.26	
For Elevated Installation >15' To 20', Add	10.52	
For Elevated Installation >20' To 25', Add	13.15	
For Elevated Installation >25' To 30', Add	18.40	
For Elevated Installation >30' To 35', Add	21.03	
For Elevated Installation >35' To 40', Add	26.29	
For Elevated Installation >40', Add	28.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.77	
26 05 33 13-0315 EA 3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	109.74	29.65
For Work In Restricted Working Space, Add	17.79	
For Elevated Installation >10' To 15', Add	5.93	
For Elevated Installation >15' To 20', Add	11.86	
For Elevated Installation >20' To 25', Add	14.82	
For Elevated Installation >25' To 30', Add	20.75	
For Elevated Installation >30' To 35', Add	23.72	
For Elevated Installation >35' To 40', Add	29.65	
For Elevated Installation >40', Add	32.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0316 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	135.37	38.61
For Work In Restricted Working Space, Add	23.16	
For Elevated Installation >10' To 15', Add	7.72	
For Elevated Installation >15' To 20', Add	15.44	
For Elevated Installation >20' To 25', Add	19.30	
For Elevated Installation >25' To 30', Add	27.02	
For Elevated Installation >30' To 35', Add	30.88	
For Elevated Installation >35' To 40', Add	38.60	
For Elevated Installation >40', Add	42.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.16	
26 05 33 13-0317 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	205.83	53.15
For Work In Restricted Working Space, Add	31.88	
For Elevated Installation >10' To 15', Add	10.63	
For Elevated Installation >15' To 20', Add	21.26	
For Elevated Installation >20' To 25', Add	26.57	
For Elevated Installation >25' To 30', Add	37.20	
For Elevated Installation >30' To 35', Add	42.51	
For Elevated Installation >35' To 40', Add	53.14	
For Elevated Installation >40', Add	58.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.88	
26 05 33 13-0318 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	268.12	68.14
For Work In Restricted Working Space, Add	40.91	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.27	
For Elevated Installation >20' To 25', Add	34.09	
For Elevated Installation >25' To 30', Add	47.73	
For Elevated Installation >30' To 35', Add	54.54	
For Elevated Installation >35' To 40', Add	68.18	
For Elevated Installation >40', Add	75.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.91	
26 05 33 13-0319 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	22.30	7.28
For Work In Restricted Working Space, Add	4.36	
For Elevated Installation >10' To 15', Add	1.45	
For Elevated Installation >15' To 20', Add	2.91	
For Elevated Installation >20' To 25', Add	3.64	
For Elevated Installation >25' To 30', Add	5.09	
For Elevated Installation >30' To 35', Add	5.82	
For Elevated Installation >35' To 40', Add	7.27	
For Elevated Installation >40', Add	8.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.36	
26 05 33 13-0320 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	25.57	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-0321 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	33.35	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0322	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	40.79	12.31
			<i>For Work In Restricted Working Space, Add</i>	7.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.31	
			<i>For Elevated Installation >40', Add</i>	13.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33	13-0323	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	46.02	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.59	
			<i>For Elevated Installation >20' To 25', Add</i>	6.99	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0324	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	53.78	15.66
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.83	
			<i>For Elevated Installation >25' To 30', Add</i>	10.97	
			<i>For Elevated Installation >30' To 35', Add</i>	12.53	
			<i>For Elevated Installation >35' To 40', Add</i>	15.67	
			<i>For Elevated Installation >40', Add</i>	17.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-0325	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	79.48	19.02
			<i>For Work In Restricted Working Space, Add</i>	11.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.80	
			<i>For Elevated Installation >15' To 20', Add</i>	7.61	
			<i>For Elevated Installation >20' To 25', Add</i>	9.51	
			<i>For Elevated Installation >25' To 30', Add</i>	13.31	
			<i>For Elevated Installation >30' To 35', Add</i>	15.22	
			<i>For Elevated Installation >35' To 40', Add</i>	19.02	
			<i>For Elevated Installation >40', Add</i>	20.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33	13-0326	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	104.94	26.29
			<i>For Work In Restricted Working Space, Add</i>	15.77	
			<i>For Elevated Installation >10' To 15', Add</i>	5.26	
			<i>For Elevated Installation >15' To 20', Add</i>	10.52	
			<i>For Elevated Installation >20' To 25', Add</i>	13.15	
			<i>For Elevated Installation >25' To 30', Add</i>	18.40	
			<i>For Elevated Installation >30' To 35', Add</i>	21.03	
			<i>For Elevated Installation >35' To 40', Add</i>	26.29	
			<i>For Elevated Installation >40', Add</i>	28.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33	13-0327	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	118.25	29.65
			<i>For Work In Restricted Working Space, Add</i>	17.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.93	
			<i>For Elevated Installation >15' To 20', Add</i>	11.86	
			<i>For Elevated Installation >20' To 25', Add</i>	14.82	
			<i>For Elevated Installation >25' To 30', Add</i>	20.75	
			<i>For Elevated Installation >30' To 35', Add</i>	23.72	
			<i>For Elevated Installation >35' To 40', Add</i>	29.65	
			<i>For Elevated Installation >40', Add</i>	32.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33	13-0328	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	146.46	38.61
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For Elevated Installation >10' To 15', Add</i>	7.72	
			<i>For Elevated Installation >15' To 20', Add</i>	15.44	
			<i>For Elevated Installation >20' To 25', Add</i>	19.30	
			<i>For Elevated Installation >25' To 30', Add</i>	27.02	
			<i>For Elevated Installation >30' To 35', Add</i>	30.88	
			<i>For Elevated Installation >35' To 40', Add</i>	38.60	
			<i>For Elevated Installation >40', Add</i>	42.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33	13-0329	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	226.87	53.15
			<i>For Work In Restricted Working Space, Add</i>	31.88	
			<i>For Elevated Installation >10' To 15', Add</i>	10.63	
			<i>For Elevated Installation >15' To 20', Add</i>	21.26	
			<i>For Elevated Installation >20' To 25', Add</i>	26.57	
			<i>For Elevated Installation >25' To 30', Add</i>	37.20	
			<i>For Elevated Installation >30' To 35', Add</i>	42.51	
			<i>For Elevated Installation >35' To 40', Add</i>	53.14	
			<i>For Elevated Installation >40', Add</i>	58.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0330 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	282.76	68.14
For Work In Restricted Working Space, Add	40.91	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.27	
For Elevated Installation >20' To 25', Add	34.09	
For Elevated Installation >25' To 30', Add	47.73	
For Elevated Installation >30' To 35', Add	54.54	
For Elevated Installation >35' To 40', Add	68.18	
For Elevated Installation >40', Add	75.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.91	
26 05 33 13-0331 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)		
26 05 33 13-0332 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	17.07	5.82
For Work In Restricted Working Space, Add	4.40	
For Elevated Installation >10' To 15', Add	1.47	
For Elevated Installation >15' To 20', Add	2.93	
For Elevated Installation >20' To 25', Add	3.67	
For Elevated Installation >25' To 30', Add	5.13	
For Elevated Installation >30' To 35', Add	5.86	
For Elevated Installation >35' To 40', Add	7.33	
For Elevated Installation >40', Add	8.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.40	
26 05 33 13-0333 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	20.37	6.72
For Work In Restricted Working Space, Add	5.01	
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.34	
For Elevated Installation >20' To 25', Add	4.17	
For Elevated Installation >25' To 30', Add	5.84	
For Elevated Installation >30' To 35', Add	6.68	
For Elevated Installation >35' To 40', Add	8.35	
For Elevated Installation >40', Add	9.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.01	
26 05 33 13-0334 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	25.55	8.50
For Work In Restricted Working Space, Add	6.40	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.27	
For Elevated Installation >20' To 25', Add	5.34	
For Elevated Installation >25' To 30', Add	7.47	
For Elevated Installation >30' To 35', Add	8.54	
For Elevated Installation >35' To 40', Add	10.67	
For Elevated Installation >40', Add	11.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.40	
26 05 33 13-0335 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	32.37	10.18
For Work In Restricted Working Space, Add	7.67	
For Elevated Installation >10' To 15', Add	2.56	
For Elevated Installation >15' To 20', Add	5.12	
For Elevated Installation >20' To 25', Add	6.40	
For Elevated Installation >25' To 30', Add	8.95	
For Elevated Installation >30' To 35', Add	10.23	
For Elevated Installation >35' To 40', Add	12.79	
For Elevated Installation >40', Add	14.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.67	
26 05 33 13-0336 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	35.45	11.19
For Work In Restricted Working Space, Add	8.40	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.80	
For Elevated Installation >30' To 35', Add	11.20	
For Elevated Installation >35' To 40', Add	14.00	
For Elevated Installation >40', Add	15.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26 05 33 13-0337 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	46.32	13.76
For Work In Restricted Working Space, Add	10.34	
For Elevated Installation >10' To 15', Add	3.45	
For Elevated Installation >15' To 20', Add	6.90	
For Elevated Installation >20' To 25', Add	8.62	
For Elevated Installation >25' To 30', Add	12.07	
For Elevated Installation >30' To 35', Add	13.79	
For Elevated Installation >35' To 40', Add	17.24	
For Elevated Installation >40', Add	18.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.34	
26 05 33 13-0338 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	75.67	22.37
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0339	EA	3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	122.00	30.88
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For Elevated Installation >10' To 15', Add</i>	7.72	
			<i>For Elevated Installation >15' To 20', Add</i>	15.44	
			<i>For Elevated Installation >20' To 25', Add</i>	19.30	
			<i>For Elevated Installation >25' To 30', Add</i>	27.02	
			<i>For Elevated Installation >30' To 35', Add</i>	30.88	
			<i>For Elevated Installation >35' To 40', Add</i>	38.60	
			<i>For Elevated Installation >40', Add</i>	42.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33	13-0340	EA	3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	151.18	36.48
			<i>For Work In Restricted Working Space, Add</i>	27.20	
			<i>For Elevated Installation >10' To 15', Add</i>	9.07	
			<i>For Elevated Installation >15' To 20', Add</i>	18.14	
			<i>For Elevated Installation >20' To 25', Add</i>	22.67	
			<i>For Elevated Installation >25' To 30', Add</i>	31.74	
			<i>For Elevated Installation >30' To 35', Add</i>	36.27	
			<i>For Elevated Installation >35' To 40', Add</i>	45.34	
			<i>For Elevated Installation >40', Add</i>	49.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.20	
26 05 33	13-0341	EA	4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	181.29	42.07
			<i>For Work In Restricted Working Space, Add</i>	31.56	
			<i>For Elevated Installation >10' To 15', Add</i>	10.52	
			<i>For Elevated Installation >15' To 20', Add</i>	21.04	
			<i>For Elevated Installation >20' To 25', Add</i>	26.30	
			<i>For Elevated Installation >25' To 30', Add</i>	36.82	
			<i>For Elevated Installation >30' To 35', Add</i>	42.08	
			<i>For Elevated Installation >35' To 40', Add</i>	52.60	
			<i>For Elevated Installation >40', Add</i>	57.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.56	
26 05 33 13-0342 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0060)					
Note: Erickson fittings.					
26 05 33	13-0343	EA	1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	47.45	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.44	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.96	
			<i>For Elevated Installation >20' To 25', Add</i>	11.20	
			<i>For Elevated Installation >25' To 30', Add</i>	15.68	
			<i>For Elevated Installation >30' To 35', Add</i>	17.92	
			<i>For Elevated Installation >35' To 40', Add</i>	22.41	
			<i>For Elevated Installation >40', Add</i>	24.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.44	
26 05 33	13-0344	EA	3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	53.40	20.03
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.01	
			<i>For Elevated Installation >40', Add</i>	27.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	
26 05 33	13-0345	EA	1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	61.96	22.26
			<i>For Work In Restricted Working Space, Add</i>	16.71	
			<i>For Elevated Installation >10' To 15', Add</i>	5.57	
			<i>For Elevated Installation >15' To 20', Add</i>	11.14	
			<i>For Elevated Installation >20' To 25', Add</i>	13.93	
			<i>For Elevated Installation >25' To 30', Add</i>	19.50	
			<i>For Elevated Installation >30' To 35', Add</i>	22.28	
			<i>For Elevated Installation >35' To 40', Add</i>	27.85	
			<i>For Elevated Installation >40', Add</i>	30.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.71	
26 05 33	13-0346	EA	1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	74.30	24.39
			<i>For Work In Restricted Working Space, Add</i>	18.29	
			<i>For Elevated Installation >10' To 15', Add</i>	6.10	
			<i>For Elevated Installation >15' To 20', Add</i>	12.19	
			<i>For Elevated Installation >20' To 25', Add</i>	15.24	
			<i>For Elevated Installation >25' To 30', Add</i>	21.34	
			<i>For Elevated Installation >30' To 35', Add</i>	24.38	
			<i>For Elevated Installation >35' To 40', Add</i>	30.48	
			<i>For Elevated Installation >40', Add</i>	33.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.29	
26 05 33	13-0347	EA	1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	82.68	26.63
			<i>For Work In Restricted Working Space, Add</i>	20.01	
			<i>For Elevated Installation >10' To 15', Add</i>	6.67	
			<i>For Elevated Installation >15' To 20', Add</i>	13.34	
			<i>For Elevated Installation >20' To 25', Add</i>	16.67	
			<i>For Elevated Installation >25' To 30', Add</i>	23.34	
			<i>For Elevated Installation >30' To 35', Add</i>	26.68	
			<i>For Elevated Installation >35' To 40', Add</i>	33.35	
			<i>For Elevated Installation >40', Add</i>	36.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0348 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	104.24	28.87
For Work In Restricted Working Space, Add	21.67	
For Elevated Installation >10' To 15', Add	7.22	
For Elevated Installation >15' To 20', Add	14.44	
For Elevated Installation >20' To 25', Add	18.06	
For Elevated Installation >25' To 30', Add	25.28	
For Elevated Installation >30' To 35', Add	28.89	
For Elevated Installation >35' To 40', Add	36.11	
For Elevated Installation >40', Add	39.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.67	
26 05 33 13-0349 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	163.69	35.81
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-0350 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	224.47	44.76
For Work In Restricted Working Space, Add	33.56	
For Elevated Installation >10' To 15', Add	11.19	
For Elevated Installation >15' To 20', Add	22.38	
For Elevated Installation >20' To 25', Add	27.97	
For Elevated Installation >25' To 30', Add	39.16	
For Elevated Installation >30' To 35', Add	44.75	
For Elevated Installation >35' To 40', Add	55.94	
For Elevated Installation >40', Add	61.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.56	
26 05 33 13-0351 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	321.84	53.70
For Work In Restricted Working Space, Add	40.29	
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.86	
For Elevated Installation >20' To 25', Add	33.58	
For Elevated Installation >25' To 30', Add	47.01	
For Elevated Installation >30' To 35', Add	53.72	
For Elevated Installation >35' To 40', Add	67.16	
For Elevated Installation >40', Add	73.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.29	
26 05 33 13-0352 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	365.98	58.18
For Work In Restricted Working Space, Add	43.63	
For Elevated Installation >10' To 15', Add	14.54	
For Elevated Installation >15' To 20', Add	29.09	
For Elevated Installation >20' To 25', Add	36.36	
For Elevated Installation >25' To 30', Add	50.90	
For Elevated Installation >30' To 35', Add	58.18	
For Elevated Installation >35' To 40', Add	72.72	
For Elevated Installation >40', Add	79.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.63	
26 05 33 13-0353 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	631.61	71.61
For Work In Restricted Working Space, Add	53.70	
For Elevated Installation >10' To 15', Add	17.90	
For Elevated Installation >15' To 20', Add	35.80	
For Elevated Installation >20' To 25', Add	44.75	
For Elevated Installation >25' To 30', Add	62.65	
For Elevated Installation >30' To 35', Add	71.60	
For Elevated Installation >35' To 40', Add	89.50	
For Elevated Installation >40', Add	98.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.70	
26 05 33 13-0354 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	810.27	82.79
For Work In Restricted Working Space, Add	62.09	
For Elevated Installation >10' To 15', Add	20.70	
For Elevated Installation >15' To 20', Add	41.39	
For Elevated Installation >20' To 25', Add	51.74	
For Elevated Installation >25' To 30', Add	72.44	
For Elevated Installation >30' To 35', Add	82.79	
For Elevated Installation >35' To 40', Add	103.49	
For Elevated Installation >40', Add	113.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.09	
26 05 33 13-0355 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0060)</small>		
26 05 33 13-0356 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	28.83	8.95
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.47	
For Elevated Installation >20' To 25', Add	5.59	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.30	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0357	EA	3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	32.25	9.85
			<i>For Work In Restricted Working Space, Add</i>	7.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.31	
			<i>For Elevated Installation >40', Add</i>	13.54	
26 05 33	13-0358	EA	1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	37.08	11.19
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
26 05 33	13-0359	EA	1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	42.21	12.09
			<i>For Work In Restricted Working Space, Add</i>	9.06	
			<i>For Elevated Installation >10' To 15', Add</i>	3.02	
			<i>For Elevated Installation >15' To 20', Add</i>	6.04	
			<i>For Elevated Installation >20' To 25', Add</i>	7.55	
			<i>For Elevated Installation >25' To 30', Add</i>	10.57	
			<i>For Elevated Installation >30' To 35', Add</i>	12.08	
			<i>For Elevated Installation >35' To 40', Add</i>	15.10	
			<i>For Elevated Installation >40', Add</i>	16.61	
26 05 33	13-0360	EA	1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	50.31	13.43
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33	13-0361	EA	2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	61.68	14.77
			<i>For Work In Restricted Working Space, Add</i>	11.08	
			<i>For Elevated Installation >10' To 15', Add</i>	3.69	
			<i>For Elevated Installation >15' To 20', Add</i>	7.39	
			<i>For Elevated Installation >20' To 25', Add</i>	9.23	
			<i>For Elevated Installation >25' To 30', Add</i>	12.93	
			<i>For Elevated Installation >30' To 35', Add</i>	14.77	
			<i>For Elevated Installation >35' To 40', Add</i>	18.47	
			<i>For Elevated Installation >40', Add</i>	20.31	
26 05 33	13-0362	EA	2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	84.44	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0363	EA	3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	104.35	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33	13-0364	EA	3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	125.37	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0365	EA	4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	141.88	29.09
			<i>For Work In Restricted Working Space, Add</i>	21.82	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	

26 05 33 13-0366 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0367 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	24.80	10.07
For Work In Restricted Working Space, Add	6.04	
For Elevated Installation >10' To 15', Add	2.01	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.07	
For Elevated Installation >40', Add	11.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 05 33 13-0368 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	27.63	11.19
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.47	
For Elevated Installation >20' To 25', Add	5.59	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 05 33 13-0369 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	34.15	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0370 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	41.95	16.78
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0371 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	53.97	22.37
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 33 13-0372 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	62.66	25.17
For Work In Restricted Working Space, Add	15.11	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.18	
For Elevated Installation >40', Add	27.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.11	
26 05 33 13-0373 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	76.84	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0374 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	103.25	35.24
For Work In Restricted Working Space, Add	21.15	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.62	
For Elevated Installation >25' To 30', Add	24.67	
For Elevated Installation >30' To 35', Add	28.20	
For Elevated Installation >35' To 40', Add	35.25	
For Elevated Installation >40', Add	38.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0375	EA	3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	122.64	42.52
			<i>For Work In Restricted Working Space, Add</i>	25.51	
			<i>For Elevated Installation >10' To 15', Add</i>	8.50	
			<i>For Elevated Installation >15' To 20', Add</i>	17.01	
			<i>For Elevated Installation >20' To 25', Add</i>	21.26	
			<i>For Elevated Installation >25' To 30', Add</i>	29.76	
			<i>For Elevated Installation >30' To 35', Add</i>	34.01	
			<i>For Elevated Installation >35' To 40', Add</i>	42.52	
			<i>For Elevated Installation >40', Add</i>	46.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.51	
26 05 33	13-0376	EA	4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	150.29	50.35
			<i>For Work In Restricted Working Space, Add</i>	30.21	
			<i>For Elevated Installation >10' To 15', Add</i>	10.07	
			<i>For Elevated Installation >15' To 20', Add</i>	20.14	
			<i>For Elevated Installation >20' To 25', Add</i>	25.18	
			<i>For Elevated Installation >25' To 30', Add</i>	35.25	
			<i>For Elevated Installation >30' To 35', Add</i>	40.28	
			<i>For Elevated Installation >35' To 40', Add</i>	50.35	
			<i>For Elevated Installation >40', Add</i>	55.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.21	
26 05 33 13-0377 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement <small>(26 05 33 13-0060)</small>					
			<small>Note: Type AX</small>		
26 05 33	13-0378	EA	1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	98.84	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0379	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	112.09	20.14
			<i>For Work In Restricted Working Space, Add</i>	15.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.07	
			<i>For Elevated Installation >20' To 25', Add</i>	12.59	
			<i>For Elevated Installation >25' To 30', Add</i>	17.62	
			<i>For Elevated Installation >30' To 35', Add</i>	20.14	
			<i>For Elevated Installation >35' To 40', Add</i>	25.18	
			<i>For Elevated Installation >40', Add</i>	27.69	
26 05 33	13-0380	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	131.90	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.60	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.98	
			<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33	13-0381	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	159.92	24.61
			<i>For Work In Restricted Working Space, Add</i>	18.46	
			<i>For Elevated Installation >10' To 15', Add</i>	6.15	
			<i>For Elevated Installation >15' To 20', Add</i>	12.31	
			<i>For Elevated Installation >20' To 25', Add</i>	15.39	
			<i>For Elevated Installation >25' To 30', Add</i>	21.54	
			<i>For Elevated Installation >30' To 35', Add</i>	24.62	
			<i>For Elevated Installation >35' To 40', Add</i>	30.77	
			<i>For Elevated Installation >40', Add</i>	33.85	
26 05 33	13-0382	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	198.61	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0383	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	269.93	29.09
			<i>For Work In Restricted Working Space, Add</i>	21.81	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.08	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	39.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0384 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	408.32	35.81
<i>For Work In Restricted Working Space, Add</i>	26.85	
<i>For Elevated Installation >10' To 15', Add</i>	8.95	
<i>For Elevated Installation >15' To 20', Add</i>	17.90	
<i>For Elevated Installation >20' To 25', Add</i>	22.38	
<i>For Elevated Installation >25' To 30', Add</i>	31.33	
<i>For Elevated Installation >30' To 35', Add</i>	35.80	
<i>For Elevated Installation >35' To 40', Add</i>	44.76	
<i>For Elevated Installation >40', Add</i>	49.23	
26 05 33 13-0385 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	522.49	44.76
<i>For Work In Restricted Working Space, Add</i>	33.56	
<i>For Elevated Installation >10' To 15', Add</i>	11.19	
<i>For Elevated Installation >15' To 20', Add</i>	22.38	
<i>For Elevated Installation >20' To 25', Add</i>	27.97	
<i>For Elevated Installation >25' To 30', Add</i>	39.16	
<i>For Elevated Installation >30' To 35', Add</i>	44.75	
<i>For Elevated Installation >35' To 40', Add</i>	55.94	
<i>For Elevated Installation >40', Add</i>	61.53	
26 05 33 13-0386 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	756.08	53.70
<i>For Work In Restricted Working Space, Add</i>	40.28	
<i>For Elevated Installation >10' To 15', Add</i>	13.43	
<i>For Elevated Installation >15' To 20', Add</i>	26.86	
<i>For Elevated Installation >20' To 25', Add</i>	33.57	
<i>For Elevated Installation >25' To 30', Add</i>	47.00	
<i>For Elevated Installation >30' To 35', Add</i>	53.71	
<i>For Elevated Installation >35' To 40', Add</i>	67.14	
<i>For Elevated Installation >40', Add</i>	73.85	
26 05 33 13-0387 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	806.50	58.18
<i>For Work In Restricted Working Space, Add</i>	43.63	
<i>For Elevated Installation >10' To 15', Add</i>	14.54	
<i>For Elevated Installation >15' To 20', Add</i>	29.09	
<i>For Elevated Installation >20' To 25', Add</i>	36.36	
<i>For Elevated Installation >25' To 30', Add</i>	50.90	
<i>For Elevated Installation >30' To 35', Add</i>	58.18	
<i>For Elevated Installation >35' To 40', Add</i>	72.72	
<i>For Elevated Installation >40', Add</i>	79.99	
26 05 33 13-0388 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,225.25	71.61
<i>For Work In Restricted Working Space, Add</i>	53.71	
<i>For Elevated Installation >10' To 15', Add</i>	17.90	
<i>For Elevated Installation >15' To 20', Add</i>	35.80	
<i>For Elevated Installation >20' To 25', Add</i>	44.76	
<i>For Elevated Installation >25' To 30', Add</i>	62.66	
<i>For Elevated Installation >30' To 35', Add</i>	71.61	
<i>For Elevated Installation >35' To 40', Add</i>	89.51	
<i>For Elevated Installation >40', Add</i>	98.46	
26 05 33 13-0389 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,500.25	79.44
<i>For Work In Restricted Working Space, Add</i>	59.61	
<i>For Elevated Installation >10' To 15', Add</i>	19.87	
<i>For Elevated Installation >15' To 20', Add</i>	39.74	
<i>For Elevated Installation >20' To 25', Add</i>	49.68	
<i>For Elevated Installation >25' To 30', Add</i>	69.55	
<i>For Elevated Installation >30' To 35', Add</i>	79.48	
<i>For Elevated Installation >35' To 40', Add</i>	99.36	
<i>For Elevated Installation >40', Add</i>	109.29	
26 05 33 13-0390 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement <small>(26 05 33 13-0390)</small>		
Note: Type AX-8		
26 05 33 13-0391 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	107.88	17.90
<i>For Work In Restricted Working Space, Add</i>	13.43	
<i>For Elevated Installation >10' To 15', Add</i>	4.48	
<i>For Elevated Installation >15' To 20', Add</i>	8.95	
<i>For Elevated Installation >20' To 25', Add</i>	11.19	
<i>For Elevated Installation >25' To 30', Add</i>	15.67	
<i>For Elevated Installation >30' To 35', Add</i>	17.90	
<i>For Elevated Installation >35' To 40', Add</i>	22.38	
<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33 13-0392 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	120.10	20.14
<i>For Work In Restricted Working Space, Add</i>	15.11	
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.07	
<i>For Elevated Installation >20' To 25', Add</i>	12.59	
<i>For Elevated Installation >25' To 30', Add</i>	17.62	
<i>For Elevated Installation >30' To 35', Add</i>	20.14	
<i>For Elevated Installation >35' To 40', Add</i>	25.18	
<i>For Elevated Installation >40', Add</i>	27.69	
26 05 33 13-0393 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	144.47	22.37
<i>For Work In Restricted Working Space, Add</i>	16.79	
<i>For Elevated Installation >10' To 15', Add</i>	5.60	
<i>For Elevated Installation >15' To 20', Add</i>	11.19	
<i>For Elevated Installation >20' To 25', Add</i>	13.99	
<i>For Elevated Installation >25' To 30', Add</i>	19.58	
<i>For Elevated Installation >30' To 35', Add</i>	22.38	
<i>For Elevated Installation >35' To 40', Add</i>	27.98	
<i>For Elevated Installation >40', Add</i>	30.77	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0394	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	179.72	24.61
			<i>For Work In Restricted Working Space, Add</i>	18.46	
			<i>For Elevated Installation >10' To 15', Add</i>	6.15	
			<i>For Elevated Installation >15' To 20', Add</i>	12.31	
			<i>For Elevated Installation >20' To 25', Add</i>	15.39	
			<i>For Elevated Installation >25' To 30', Add</i>	21.54	
			<i>For Elevated Installation >30' To 35', Add</i>	24.62	
			<i>For Elevated Installation >35' To 40', Add</i>	30.77	
			<i>For Elevated Installation >40', Add</i>	33.85	
26 05 33	13-0395	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	237.95	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0396	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	288.72	29.09
			<i>For Work In Restricted Working Space, Add</i>	21.81	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.08	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	39.99	
26 05 33	13-0397	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	530.17	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
26 05 33	13-0398	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	605.70	44.76
			<i>For Work In Restricted Working Space, Add</i>	33.56	
			<i>For Elevated Installation >10' To 15', Add</i>	11.19	
			<i>For Elevated Installation >15' To 20', Add</i>	22.38	
			<i>For Elevated Installation >20' To 25', Add</i>	27.97	
			<i>For Elevated Installation >25' To 30', Add</i>	39.16	
			<i>For Elevated Installation >30' To 35', Add</i>	44.75	
			<i>For Elevated Installation >35' To 40', Add</i>	55.94	
			<i>For Elevated Installation >40', Add</i>	61.53	
26 05 33	13-0399	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	920.51	53.70
			<i>For Work In Restricted Working Space, Add</i>	40.28	
			<i>For Elevated Installation >10' To 15', Add</i>	13.43	
			<i>For Elevated Installation >15' To 20', Add</i>	26.86	
			<i>For Elevated Installation >20' To 25', Add</i>	33.57	
			<i>For Elevated Installation >25' To 30', Add</i>	47.00	
			<i>For Elevated Installation >30' To 35', Add</i>	53.71	
			<i>For Elevated Installation >35' To 40', Add</i>	67.14	
			<i>For Elevated Installation >40', Add</i>	73.85	
26 05 33	13-0400	EA	4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	996.56	58.18
			<i>For Work In Restricted Working Space, Add</i>	43.63	
			<i>For Elevated Installation >10' To 15', Add</i>	14.54	
			<i>For Elevated Installation >15' To 20', Add</i>	29.09	
			<i>For Elevated Installation >20' To 25', Add</i>	36.36	
			<i>For Elevated Installation >25' To 30', Add</i>	50.90	
			<i>For Elevated Installation >30' To 35', Add</i>	58.18	
			<i>For Elevated Installation >35' To 40', Add</i>	72.72	
			<i>For Elevated Installation >40', Add</i>	79.99	
26 05 33	13-0401	EA	5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,385.45	71.61
			<i>For Work In Restricted Working Space, Add</i>	53.71	
			<i>For Elevated Installation >10' To 15', Add</i>	17.90	
			<i>For Elevated Installation >15' To 20', Add</i>	35.80	
			<i>For Elevated Installation >20' To 25', Add</i>	44.76	
			<i>For Elevated Installation >25' To 30', Add</i>	62.66	
			<i>For Elevated Installation >30' To 35', Add</i>	71.61	
			<i>For Elevated Installation >35' To 40', Add</i>	89.51	
			<i>For Elevated Installation >40', Add</i>	98.46	
26 05 33	13-0402	EA	6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,706.36	79.44
			<i>For Work In Restricted Working Space, Add</i>	59.61	
			<i>For Elevated Installation >10' To 15', Add</i>	19.87	
			<i>For Elevated Installation >15' To 20', Add</i>	39.74	
			<i>For Elevated Installation >20' To 25', Add</i>	49.68	
			<i>For Elevated Installation >25' To 30', Add</i>	69.55	
			<i>For Elevated Installation >30' To 35', Add</i>	79.48	
			<i>For Elevated Installation >35' To 40', Add</i>	99.36	
			<i>For Elevated Installation >40', Add</i>	109.29	

26 05 33 13-0403 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0060)

Note: Type EX



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0404 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	121.12	17.90
<i>For Work In Restricted Working Space, Add</i>	13.43	
<i>For Elevated Installation >10' To 15', Add</i>	4.48	
<i>For Elevated Installation >15' To 20', Add</i>	8.95	
<i>For Elevated Installation >20' To 25', Add</i>	11.19	
<i>For Elevated Installation >25' To 30', Add</i>	15.67	
<i>For Elevated Installation >30' To 35', Add</i>	17.90	
<i>For Elevated Installation >35' To 40', Add</i>	22.38	
<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33 13-0405 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	151.30	20.14
<i>For Work In Restricted Working Space, Add</i>	15.11	
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.07	
<i>For Elevated Installation >20' To 25', Add</i>	12.59	
<i>For Elevated Installation >25' To 30', Add</i>	17.62	
<i>For Elevated Installation >30' To 35', Add</i>	20.14	
<i>For Elevated Installation >35' To 40', Add</i>	25.18	
<i>For Elevated Installation >40', Add</i>	27.69	
26 05 33 13-0406 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	186.62	22.37
<i>For Work In Restricted Working Space, Add</i>	16.79	
<i>For Elevated Installation >10' To 15', Add</i>	5.60	
<i>For Elevated Installation >15' To 20', Add</i>	11.19	
<i>For Elevated Installation >20' To 25', Add</i>	13.99	
<i>For Elevated Installation >25' To 30', Add</i>	19.58	
<i>For Elevated Installation >30' To 35', Add</i>	22.38	
<i>For Elevated Installation >35' To 40', Add</i>	27.98	
<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33 13-0407 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	225.35	24.61
<i>For Work In Restricted Working Space, Add</i>	18.46	
<i>For Elevated Installation >10' To 15', Add</i>	6.15	
<i>For Elevated Installation >15' To 20', Add</i>	12.31	
<i>For Elevated Installation >20' To 25', Add</i>	15.39	
<i>For Elevated Installation >25' To 30', Add</i>	21.54	
<i>For Elevated Installation >30' To 35', Add</i>	24.62	
<i>For Elevated Installation >35' To 40', Add</i>	30.77	
<i>For Elevated Installation >40', Add</i>	33.85	
26 05 33 13-0408 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	299.74	26.85
<i>For Work In Restricted Working Space, Add</i>	20.14	
<i>For Elevated Installation >10' To 15', Add</i>	6.71	
<i>For Elevated Installation >15' To 20', Add</i>	13.43	
<i>For Elevated Installation >20' To 25', Add</i>	16.78	
<i>For Elevated Installation >25' To 30', Add</i>	23.50	
<i>For Elevated Installation >30' To 35', Add</i>	26.85	
<i>For Elevated Installation >35' To 40', Add</i>	33.57	
<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33 13-0409 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	408.14	29.09
<i>For Work In Restricted Working Space, Add</i>	21.81	
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.08	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	39.99	
26 05 33 13-0410 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	628.48	35.81
<i>For Work In Restricted Working Space, Add</i>	26.85	
<i>For Elevated Installation >10' To 15', Add</i>	8.95	
<i>For Elevated Installation >15' To 20', Add</i>	17.90	
<i>For Elevated Installation >20' To 25', Add</i>	22.38	
<i>For Elevated Installation >25' To 30', Add</i>	31.33	
<i>For Elevated Installation >30' To 35', Add</i>	35.80	
<i>For Elevated Installation >35' To 40', Add</i>	44.76	
<i>For Elevated Installation >40', Add</i>	49.23	
26 05 33 13-0411 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	845.07	44.76
<i>For Work In Restricted Working Space, Add</i>	33.56	
<i>For Elevated Installation >10' To 15', Add</i>	11.19	
<i>For Elevated Installation >15' To 20', Add</i>	22.38	
<i>For Elevated Installation >20' To 25', Add</i>	27.97	
<i>For Elevated Installation >25' To 30', Add</i>	39.16	
<i>For Elevated Installation >30' To 35', Add</i>	44.75	
<i>For Elevated Installation >35' To 40', Add</i>	55.94	
<i>For Elevated Installation >40', Add</i>	61.53	
26 05 33 13-0412 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,260.98	53.70
<i>For Work In Restricted Working Space, Add</i>	40.28	
<i>For Elevated Installation >10' To 15', Add</i>	13.43	
<i>For Elevated Installation >15' To 20', Add</i>	26.86	
<i>For Elevated Installation >20' To 25', Add</i>	33.57	
<i>For Elevated Installation >25' To 30', Add</i>	47.00	
<i>For Elevated Installation >30' To 35', Add</i>	53.71	
<i>For Elevated Installation >35' To 40', Add</i>	67.14	
<i>For Elevated Installation >40', Add</i>	73.85	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0413	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,306.67	58.18
			<i>For Work In Restricted Working Space, Add</i>	43.63	
			<i>For Elevated Installation >10' To 15', Add</i>	14.54	
			<i>For Elevated Installation >15' To 20', Add</i>	29.09	
			<i>For Elevated Installation >20' To 25', Add</i>	36.36	
			<i>For Elevated Installation >25' To 30', Add</i>	50.90	
			<i>For Elevated Installation >30' To 35', Add</i>	58.18	
			<i>For Elevated Installation >35' To 40', Add</i>	72.72	
			<i>For Elevated Installation >40', Add</i>	79.99	
26 05 33	13-0414	EA	5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,957.10	71.61
			<i>For Work In Restricted Working Space, Add</i>	53.71	
			<i>For Elevated Installation >10' To 15', Add</i>	17.90	
			<i>For Elevated Installation >15' To 20', Add</i>	35.80	
			<i>For Elevated Installation >20' To 25', Add</i>	44.76	
			<i>For Elevated Installation >25' To 30', Add</i>	62.66	
			<i>For Elevated Installation >30' To 35', Add</i>	71.61	
			<i>For Elevated Installation >35' To 40', Add</i>	89.51	
			<i>For Elevated Installation >40', Add</i>	98.46	
26 05 33	13-0415	EA	6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,420.74	79.44
			<i>For Work In Restricted Working Space, Add</i>	59.61	
			<i>For Elevated Installation >10' To 15', Add</i>	19.87	
			<i>For Elevated Installation >15' To 20', Add</i>	39.74	
			<i>For Elevated Installation >20' To 25', Add</i>	49.68	
			<i>For Elevated Installation >25' To 30', Add</i>	69.55	
			<i>For Elevated Installation >30' To 35', Add</i>	79.48	
			<i>For Elevated Installation >35' To 40', Add</i>	99.36	
			<i>For Elevated Installation >40', Add</i>	109.29	
26 05 33	13-0416		Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0060)</small>		
			Note: Type DX		
26 05 33	13-0417	EA	1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	202.72	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0418	EA	3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	240.79	20.14
			<i>For Work In Restricted Working Space, Add</i>	15.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.07	
			<i>For Elevated Installation >20' To 25', Add</i>	12.59	
			<i>For Elevated Installation >25' To 30', Add</i>	17.62	
			<i>For Elevated Installation >30' To 35', Add</i>	20.14	
			<i>For Elevated Installation >35' To 40', Add</i>	25.18	
			<i>For Elevated Installation >40', Add</i>	27.69	
26 05 33	13-0419	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	289.89	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.60	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.98	
			<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33	13-0420	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	339.78	24.61
			<i>For Work In Restricted Working Space, Add</i>	18.46	
			<i>For Elevated Installation >10' To 15', Add</i>	6.15	
			<i>For Elevated Installation >15' To 20', Add</i>	12.31	
			<i>For Elevated Installation >20' To 25', Add</i>	15.39	
			<i>For Elevated Installation >25' To 30', Add</i>	21.54	
			<i>For Elevated Installation >30' To 35', Add</i>	24.62	
			<i>For Elevated Installation >35' To 40', Add</i>	30.77	
			<i>For Elevated Installation >40', Add</i>	33.85	
26 05 33	13-0421	EA	1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	375.52	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0422	EA	2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	461.65	29.09
			<i>For Work In Restricted Working Space, Add</i>	21.81	
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.08	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	39.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0423 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	608.61	35.81
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
26 05 33 13-0424 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	771.44	44.76
For Work In Restricted Working Space, Add	33.56	
For Elevated Installation >10' To 15', Add	11.19	
For Elevated Installation >15' To 20', Add	22.38	
For Elevated Installation >20' To 25', Add	27.97	
For Elevated Installation >25' To 30', Add	39.16	
For Elevated Installation >30' To 35', Add	44.75	
For Elevated Installation >35' To 40', Add	55.94	
For Elevated Installation >40', Add	61.53	
26 05 33 13-0425 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	870.04	53.70
For Work In Restricted Working Space, Add	40.28	
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.86	
For Elevated Installation >20' To 25', Add	33.57	
For Elevated Installation >25' To 30', Add	47.00	
For Elevated Installation >30' To 35', Add	53.71	
For Elevated Installation >35' To 40', Add	67.14	
For Elevated Installation >40', Add	73.85	
26 05 33 13-0426 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,050.87	58.18
For Work In Restricted Working Space, Add	43.63	
For Elevated Installation >10' To 15', Add	14.54	
For Elevated Installation >15' To 20', Add	29.09	
For Elevated Installation >20' To 25', Add	36.36	
For Elevated Installation >25' To 30', Add	50.90	
For Elevated Installation >30' To 35', Add	58.18	
For Elevated Installation >35' To 40', Add	72.72	
For Elevated Installation >40', Add	79.99	
26 05 33 13-0427 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,780.71	71.61
For Work In Restricted Working Space, Add	53.71	
For Elevated Installation >10' To 15', Add	17.90	
For Elevated Installation >15' To 20', Add	35.80	
For Elevated Installation >20' To 25', Add	44.76	
For Elevated Installation >25' To 30', Add	62.66	
For Elevated Installation >30' To 35', Add	71.61	
For Elevated Installation >35' To 40', Add	89.51	
For Elevated Installation >40', Add	98.46	
26 05 33 13-0428 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	2,810.83	79.44
For Work In Restricted Working Space, Add	59.61	
For Elevated Installation >10' To 15', Add	19.87	
For Elevated Installation >15' To 20', Add	39.74	
For Elevated Installation >20' To 25', Add	49.68	
For Elevated Installation >25' To 30', Add	69.55	
For Elevated Installation >30' To 35', Add	79.48	
For Elevated Installation >35' To 40', Add	99.36	
For Elevated Installation >40', Add	109.29	
26 05 33 13-0429 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0060)		
26 05 33 13-0430 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper	54.95	8.95
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.48	
For Elevated Installation >20' To 25', Add	5.60	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.31	
26 05 33 13-0431 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper	63.84	11.19
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
26 05 33 13-0432 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper	78.48	13.43
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0433	EA	2-1/2" To 3" Conduit, 14" Bonding Jumper	109.65	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0434	EA	3-1/2" To 4" Conduit, 14" Bonding Jumper	165.95	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0435	EA	5" To 6" Conduit, 14" Bonding Jumper	277.27	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
26 05 33	13-0436	EA	1/2" To 3/4" Conduit, 24" Bonding Jumper	60.52	8.95
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.48	
			<i>For Elevated Installation >20' To 25', Add</i>	5.60	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.31	
26 05 33	13-0437	EA	1" To 1-1/4" Conduit, 24" Bonding Jumper	70.89	11.19
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
26 05 33	13-0438	EA	1-1/2" To 2" Conduit, 24" Bonding Jumper	84.93	13.43
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33	13-0439	EA	2-1/2" To 3" Conduit, 24" Bonding Jumper	118.22	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0440	EA	3-1/2" To 4" Conduit, 24" Bonding Jumper	177.32	26.85
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0441	EA	5" To 6" Conduit, 24" Bonding Jumper	313.94	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	

26 05 33 13-0442 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0443 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	100.76	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0444 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	119.77	33.57
For Work In Restricted Working Space, Add	20.14	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.14	
26 05 33 13-0445 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	145.98	39.16
For Work In Restricted Working Space, Add	23.50	
For Elevated Installation >10' To 15', Add	7.83	
For Elevated Installation >15' To 20', Add	15.66	
For Elevated Installation >20' To 25', Add	19.58	
For Elevated Installation >25' To 30', Add	27.41	
For Elevated Installation >30' To 35', Add	31.33	
For Elevated Installation >35' To 40', Add	39.16	
For Elevated Installation >40', Add	43.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.50	
26 05 33 13-0446 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	171.67	44.76
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-0447 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	224.39	50.35
For Work In Restricted Working Space, Add	30.21	
For Elevated Installation >10' To 15', Add	10.07	
For Elevated Installation >15' To 20', Add	20.14	
For Elevated Installation >20' To 25', Add	25.18	
For Elevated Installation >25' To 30', Add	35.25	
For Elevated Installation >30' To 35', Add	40.28	
For Elevated Installation >35' To 40', Add	50.35	
For Elevated Installation >40', Add	55.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.21	
26 05 33 13-0448 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	272.14	55.94
For Work In Restricted Working Space, Add	33.56	
For Elevated Installation >10' To 15', Add	11.19	
For Elevated Installation >15' To 20', Add	22.38	
For Elevated Installation >20' To 25', Add	27.97	
For Elevated Installation >25' To 30', Add	39.16	
For Elevated Installation >30' To 35', Add	44.75	
For Elevated Installation >35' To 40', Add	55.94	
For Elevated Installation >40', Add	61.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.56	
26 05 33 13-0449 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	383.27	67.13
For Work In Restricted Working Space, Add	40.28	
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.85	
For Elevated Installation >20' To 25', Add	33.57	
For Elevated Installation >25' To 30', Add	46.99	
For Elevated Installation >30' To 35', Add	53.71	
For Elevated Installation >35' To 40', Add	67.14	
For Elevated Installation >40', Add	73.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.28	
26 05 33 13-0450 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	460.80	78.32
For Work In Restricted Working Space, Add	46.99	
For Elevated Installation >10' To 15', Add	15.66	
For Elevated Installation >15' To 20', Add	31.33	
For Elevated Installation >20' To 25', Add	39.16	
For Elevated Installation >25' To 30', Add	54.82	
For Elevated Installation >30' To 35', Add	62.66	
For Elevated Installation >35' To 40', Add	78.32	
For Elevated Installation >40', Add	86.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.99	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0451	EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,056.23 53.71 17.90 35.80 44.76 62.66 71.61 89.51 98.46 53.71	89.51
26 05 33 13-0452	EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,216.64 60.42 20.14 40.28 50.35 70.49 80.56 100.70 110.77 60.42	100.70
26 05 33 13-0453 Rigid Galvanized Steel (RGS) Threaded Couplings <small>(26 05 33 13-0060)</small>			
26 05 33 13-0454	EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	14.82 4.03 1.34 2.69 3.36 4.70 5.37 6.72 7.39	6.72
26 05 33 13-0455	EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	20.75 5.71 1.90 3.80 4.76 6.66 7.61 9.51 10.46	9.51
26 05 33 13-0456	EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	27.26 7.38 2.46 4.92 6.15 8.61 9.84 12.31 13.54	12.31
26 05 33 13-0457	EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	31.32 8.39 2.80 5.60 7.00 9.79 11.19 13.99 15.39	13.98
26 05 33 13-0458	EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	37.75 10.07 3.36 6.71 8.39 11.75 13.43 16.79 18.46	16.78
26 05 33 13-0459	EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	44.27 11.41 3.80 7.61 9.51 13.31 15.22 19.02 20.92	19.02
26 05 33 13-0460	EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	56.51 12.76 4.25 8.50 10.63 14.88 17.01 21.26 23.39	21.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0461 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	66.30	24.05
<i>For Work In Restricted Working Space, Add</i>	14.43	
<i>For Elevated Installation >10' To 15', Add</i>	4.81	
<i>For Elevated Installation >15' To 20', Add</i>	9.62	
<i>For Elevated Installation >20' To 25', Add</i>	12.03	
<i>For Elevated Installation >25' To 30', Add</i>	16.84	
<i>For Elevated Installation >30' To 35', Add</i>	19.24	
<i>For Elevated Installation >35' To 40', Add</i>	24.06	
<i>For Elevated Installation >40', Add</i>	26.46	
26 05 33 13-0462 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	77.17	26.29
<i>For Work In Restricted Working Space, Add</i>	15.78	
<i>For Elevated Installation >10' To 15', Add</i>	5.26	
<i>For Elevated Installation >15' To 20', Add</i>	10.52	
<i>For Elevated Installation >20' To 25', Add</i>	13.15	
<i>For Elevated Installation >25' To 30', Add</i>	18.41	
<i>For Elevated Installation >30' To 35', Add</i>	21.04	
<i>For Elevated Installation >35' To 40', Add</i>	26.30	
<i>For Elevated Installation >40', Add</i>	28.92	
26 05 33 13-0463 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	81.54	27.98
<i>For Work In Restricted Working Space, Add</i>	16.78	
<i>For Elevated Installation >10' To 15', Add</i>	5.59	
<i>For Elevated Installation >15' To 20', Add</i>	11.19	
<i>For Elevated Installation >20' To 25', Add</i>	13.99	
<i>For Elevated Installation >25' To 30', Add</i>	19.58	
<i>For Elevated Installation >30' To 35', Add</i>	22.38	
<i>For Elevated Installation >35' To 40', Add</i>	27.97	
<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33 13-0464 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0060)		
26 05 33 13-0465 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.46	1.11
26 05 33 13-0466 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.76	1.68
26 05 33 13-0467 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	7.92	2.80
26 05 33 13-0468 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.47	3.91
26 05 33 13-0469 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	13.75	4.48
26 05 33 13-0470 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	16.19	5.04
26 05 33 13-0471 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0060)		
26 05 33 13-0472 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	212.53	13.58
<i>For Work In Restricted Working Space, Add</i>	10.19	
<i>For Elevated Installation >10' To 15', Add</i>	3.40	
<i>For Elevated Installation >15' To 20', Add</i>	6.79	
<i>For Elevated Installation >20' To 25', Add</i>	8.49	
<i>For Elevated Installation >25' To 30', Add</i>	11.88	
<i>For Elevated Installation >30' To 35', Add</i>	13.58	
<i>For Elevated Installation >35' To 40', Add</i>	16.98	
<i>For Elevated Installation >40', Add</i>	18.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.19	
26 05 33 13-0473 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	215.80	14.88
<i>For Work In Restricted Working Space, Add</i>	11.17	
<i>For Elevated Installation >10' To 15', Add</i>	3.72	
<i>For Elevated Installation >15' To 20', Add</i>	7.44	
<i>For Elevated Installation >20' To 25', Add</i>	9.31	
<i>For Elevated Installation >25' To 30', Add</i>	13.03	
<i>For Elevated Installation >30' To 35', Add</i>	14.89	
<i>For Elevated Installation >35' To 40', Add</i>	18.61	
<i>For Elevated Installation >40', Add</i>	20.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.17	
26 05 33 13-0474 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	259.31	16.33
<i>For Work In Restricted Working Space, Add</i>	12.23	
<i>For Elevated Installation >10' To 15', Add</i>	4.08	
<i>For Elevated Installation >15' To 20', Add</i>	8.15	
<i>For Elevated Installation >20' To 25', Add</i>	10.19	
<i>For Elevated Installation >25' To 30', Add</i>	14.27	
<i>For Elevated Installation >30' To 35', Add</i>	16.30	
<i>For Elevated Installation >35' To 40', Add</i>	20.38	
<i>For Elevated Installation >40', Add</i>	22.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 05 33 13-0475 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	284.67	17.90
<i>For Work In Restricted Working Space, Add</i>	13.44	
<i>For Elevated Installation >10' To 15', Add</i>	4.48	
<i>For Elevated Installation >15' To 20', Add</i>	8.96	
<i>For Elevated Installation >20' To 25', Add</i>	11.20	
<i>For Elevated Installation >25' To 30', Add</i>	15.68	
<i>For Elevated Installation >30' To 35', Add</i>	17.92	
<i>For Elevated Installation >35' To 40', Add</i>	22.40	
<i>For Elevated Installation >40', Add</i>	24.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.44	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0476	EA		1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	324.88	20.14
			<i>For Work In Restricted Working Space, Add</i>	15.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.07	
			<i>For Elevated Installation >20' To 25', Add</i>	12.59	
			<i>For Elevated Installation >25' To 30', Add</i>	17.62	
			<i>For Elevated Installation >30' To 35', Add</i>	20.14	
			<i>For Elevated Installation >35' To 40', Add</i>	25.18	
			<i>For Elevated Installation >40', Add</i>	27.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.11	
26 05 33 13-0477	EA		2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	482.42	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.60	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.59	
			<i>For Elevated Installation >30' To 35', Add</i>	22.39	
			<i>For Elevated Installation >35' To 40', Add</i>	27.99	
			<i>For Elevated Installation >40', Add</i>	30.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.79	
26 05 33 13-0478	EA		2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	554.38	29.87
			<i>For Work In Restricted Working Space, Add</i>	22.39	
			<i>For Elevated Installation >10' To 15', Add</i>	7.46	
			<i>For Elevated Installation >15' To 20', Add</i>	14.93	
			<i>For Elevated Installation >20' To 25', Add</i>	18.66	
			<i>For Elevated Installation >25' To 30', Add</i>	26.12	
			<i>For Elevated Installation >30' To 35', Add</i>	29.85	
			<i>For Elevated Installation >35' To 40', Add</i>	37.32	
			<i>For Elevated Installation >40', Add</i>	41.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.39	
26 05 33 13-0479	EA		3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	615.07	32.78
			<i>For Work In Restricted Working Space, Add</i>	24.60	
			<i>For Elevated Installation >10' To 15', Add</i>	8.20	
			<i>For Elevated Installation >15' To 20', Add</i>	16.40	
			<i>For Elevated Installation >20' To 25', Add</i>	20.50	
			<i>For Elevated Installation >25' To 30', Add</i>	28.70	
			<i>For Elevated Installation >30' To 35', Add</i>	32.80	
			<i>For Elevated Installation >35' To 40', Add</i>	41.01	
			<i>For Elevated Installation >40', Add</i>	45.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.60	
26 05 33 13-0480	EA		3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	715.88	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.86	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.91	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.34	
			<i>For Elevated Installation >30' To 35', Add</i>	35.81	
			<i>For Elevated Installation >35' To 40', Add</i>	44.77	
			<i>For Elevated Installation >40', Add</i>	49.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.86	
26 05 33 13-0481	EA		4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	807.00	40.28
			<i>For Work In Restricted Working Space, Add</i>	30.21	
			<i>For Elevated Installation >10' To 15', Add</i>	10.07	
			<i>For Elevated Installation >15' To 20', Add</i>	20.14	
			<i>For Elevated Installation >20' To 25', Add</i>	25.18	
			<i>For Elevated Installation >25' To 30', Add</i>	35.25	
			<i>For Elevated Installation >30' To 35', Add</i>	40.28	
			<i>For Elevated Installation >35' To 40', Add</i>	50.35	
			<i>For Elevated Installation >40', Add</i>	55.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.21	
26 05 33 13-0482	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,084.72	44.76
			<i>For Work In Restricted Working Space, Add</i>	33.56	
			<i>For Elevated Installation >10' To 15', Add</i>	11.19	
			<i>For Elevated Installation >15' To 20', Add</i>	22.38	
			<i>For Elevated Installation >20' To 25', Add</i>	27.97	
			<i>For Elevated Installation >25' To 30', Add</i>	39.16	
			<i>For Elevated Installation >30' To 35', Add</i>	44.75	
			<i>For Elevated Installation >35' To 40', Add</i>	55.94	
			<i>For Elevated Installation >40', Add</i>	61.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.56	
26 05 33 13-0483	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,350.24	49.68
			<i>For Work In Restricted Working Space, Add</i>	37.26	
			<i>For Elevated Installation >10' To 15', Add</i>	12.42	
			<i>For Elevated Installation >15' To 20', Add</i>	24.84	
			<i>For Elevated Installation >20' To 25', Add</i>	31.05	
			<i>For Elevated Installation >25' To 30', Add</i>	43.47	
			<i>For Elevated Installation >30' To 35', Add</i>	49.68	
			<i>For Elevated Installation >35' To 40', Add</i>	62.10	
			<i>For Elevated Installation >40', Add</i>	68.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.26	

26 05 33 13-0484 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0485 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	18.30	8.67
For Work In Restricted Working Space, Add	5.21	
For Elevated Installation >10' To 15', Add	1.74	
For Elevated Installation >15' To 20', Add	3.47	
For Elevated Installation >20' To 25', Add	4.34	
For Elevated Installation >25' To 30', Add	6.07	
For Elevated Installation >30' To 35', Add	6.94	
For Elevated Installation >35' To 40', Add	8.68	
For Elevated Installation >40', Add	9.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.21	
26 05 33 13-0486 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	20.20	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.62	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 05 33 13-0487 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	20.76	9.51
For Work In Restricted Working Space, Add	5.71	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.80	
For Elevated Installation >20' To 25', Add	4.76	
For Elevated Installation >25' To 30', Add	6.66	
For Elevated Installation >30' To 35', Add	7.61	
For Elevated Installation >35' To 40', Add	9.51	
For Elevated Installation >40', Add	10.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.71	
26 05 33 13-0488 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	24.09	9.79
For Work In Restricted Working Space, Add	5.87	
For Elevated Installation >10' To 15', Add	1.96	
For Elevated Installation >15' To 20', Add	3.92	
For Elevated Installation >20' To 25', Add	4.90	
For Elevated Installation >25' To 30', Add	6.85	
For Elevated Installation >30' To 35', Add	7.83	
For Elevated Installation >35' To 40', Add	9.79	
For Elevated Installation >40', Add	10.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.87	
26 05 33 13-0489 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	24.65	10.07
For Work In Restricted Working Space, Add	6.04	
For Elevated Installation >10' To 15', Add	2.01	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.07	
For Elevated Installation >40', Add	11.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.04	
26 05 33 13-0490 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	25.77	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0491 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	27.83	11.19
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.47	
For Elevated Installation >20' To 25', Add	5.59	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 05 33 13-0492 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	28.40	11.47
For Work In Restricted Working Space, Add	6.88	
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.59	
For Elevated Installation >20' To 25', Add	5.74	
For Elevated Installation >25' To 30', Add	8.03	
For Elevated Installation >30' To 35', Add	9.18	
For Elevated Installation >35' To 40', Add	11.47	
For Elevated Installation >40', Add	12.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0493	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	29.51	12.03
			<i>For Work In Restricted Working Space, Add</i>	7.22	
			<i>For Elevated Installation >10' To 15', Add</i>	2.41	
			<i>For Elevated Installation >15' To 20', Add</i>	4.81	
			<i>For Elevated Installation >20' To 25', Add</i>	6.01	
			<i>For Elevated Installation >25' To 30', Add</i>	8.42	
			<i>For Elevated Installation >30' To 35', Add</i>	9.62	
			<i>For Elevated Installation >35' To 40', Add</i>	12.03	
			<i>For Elevated Installation >40', Add</i>	13.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.22	
26 05 33	13-0494	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	30.63	12.59
			<i>For Work In Restricted Working Space, Add</i>	7.55	
			<i>For Elevated Installation >10' To 15', Add</i>	2.52	
			<i>For Elevated Installation >15' To 20', Add</i>	5.03	
			<i>For Elevated Installation >20' To 25', Add</i>	6.29	
			<i>For Elevated Installation >25' To 30', Add</i>	8.81	
			<i>For Elevated Installation >30' To 35', Add</i>	10.07	
			<i>For Elevated Installation >35' To 40', Add</i>	12.59	
			<i>For Elevated Installation >40', Add</i>	13.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.55	
26 05 33	13-0495	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	37.16	12.59
			<i>For Work In Restricted Working Space, Add</i>	7.55	
			<i>For Elevated Installation >10' To 15', Add</i>	2.52	
			<i>For Elevated Installation >15' To 20', Add</i>	5.03	
			<i>For Elevated Installation >20' To 25', Add</i>	6.29	
			<i>For Elevated Installation >25' To 30', Add</i>	8.81	
			<i>For Elevated Installation >30' To 35', Add</i>	10.07	
			<i>For Elevated Installation >35' To 40', Add</i>	12.59	
			<i>For Elevated Installation >40', Add</i>	13.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.55	
26 05 33	13-0496	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	37.73	12.87
			<i>For Work In Restricted Working Space, Add</i>	7.72	
			<i>For Elevated Installation >10' To 15', Add</i>	2.57	
			<i>For Elevated Installation >15' To 20', Add</i>	5.15	
			<i>For Elevated Installation >20' To 25', Add</i>	6.44	
			<i>For Elevated Installation >25' To 30', Add</i>	9.01	
			<i>For Elevated Installation >30' To 35', Add</i>	10.30	
			<i>For Elevated Installation >35' To 40', Add</i>	12.87	
			<i>For Elevated Installation >40', Add</i>	14.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33	13-0497	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	38.84	13.43
			<i>For Work In Restricted Working Space, Add</i>	8.06	
			<i>For Elevated Installation >10' To 15', Add</i>	2.69	
			<i>For Elevated Installation >15' To 20', Add</i>	5.37	
			<i>For Elevated Installation >20' To 25', Add</i>	6.71	
			<i>For Elevated Installation >25' To 30', Add</i>	9.40	
			<i>For Elevated Installation >30' To 35', Add</i>	10.74	
			<i>For Elevated Installation >35' To 40', Add</i>	13.43	
			<i>For Elevated Installation >40', Add</i>	14.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.06	
26 05 33	13-0498	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	39.97	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0499	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	42.76	15.39
			<i>For Work In Restricted Working Space, Add</i>	9.23	
			<i>For Elevated Installation >10' To 15', Add</i>	3.08	
			<i>For Elevated Installation >15' To 20', Add</i>	6.15	
			<i>For Elevated Installation >20' To 25', Add</i>	7.69	
			<i>For Elevated Installation >25' To 30', Add</i>	10.77	
			<i>For Elevated Installation >30' To 35', Add</i>	12.31	
			<i>For Elevated Installation >35' To 40', Add</i>	15.39	
			<i>For Elevated Installation >40', Add</i>	16.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 33	13-0500	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	54.14	18.18
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	

26 05 33 13-0501 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0502 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	2.33	1.11
<i>For Work In Restricted Working Space, Add</i>	0.67	
<i>For Elevated Installation >10' To 15', Add</i>	0.22	
<i>For Elevated Installation >15' To 20', Add</i>	0.45	
<i>For Elevated Installation >20' To 25', Add</i>	0.56	
<i>For Elevated Installation >25' To 30', Add</i>	0.78	
<i>For Elevated Installation >30' To 35', Add</i>	0.90	
<i>For Elevated Installation >35' To 40', Add</i>	1.12	
<i>For Elevated Installation >40', Add</i>	1.23	
26 05 33 13-0503 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	3.47	1.68
<i>For Work In Restricted Working Space, Add</i>	1.01	
<i>For Elevated Installation >10' To 15', Add</i>	0.34	
<i>For Elevated Installation >15' To 20', Add</i>	0.67	
<i>For Elevated Installation >20' To 25', Add</i>	0.84	
<i>For Elevated Installation >25' To 30', Add</i>	1.17	
<i>For Elevated Installation >30' To 35', Add</i>	1.34	
<i>For Elevated Installation >35' To 40', Add</i>	1.68	
<i>For Elevated Installation >40', Add</i>	1.84	
26 05 33 13-0504 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	5.79	2.80
<i>For Work In Restricted Working Space, Add</i>	1.68	
<i>For Elevated Installation >10' To 15', Add</i>	0.56	
<i>For Elevated Installation >15' To 20', Add</i>	1.12	
<i>For Elevated Installation >20' To 25', Add</i>	1.40	
<i>For Elevated Installation >25' To 30', Add</i>	1.96	
<i>For Elevated Installation >30' To 35', Add</i>	2.24	
<i>For Elevated Installation >35' To 40', Add</i>	2.80	
<i>For Elevated Installation >40', Add</i>	3.07	
26 05 33 13-0505 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	8.16	3.91
<i>For Work In Restricted Working Space, Add</i>	2.35	
<i>For Elevated Installation >10' To 15', Add</i>	0.78	
<i>For Elevated Installation >15' To 20', Add</i>	1.57	
<i>For Elevated Installation >20' To 25', Add</i>	1.96	
<i>For Elevated Installation >25' To 30', Add</i>	2.74	
<i>For Elevated Installation >30' To 35', Add</i>	3.13	
<i>For Elevated Installation >35' To 40', Add</i>	3.92	
<i>For Elevated Installation >40', Add</i>	4.31	
26 05 33 13-0506 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	9.38	4.48
<i>For Work In Restricted Working Space, Add</i>	2.69	
<i>For Elevated Installation >10' To 15', Add</i>	0.90	
<i>For Elevated Installation >15' To 20', Add</i>	1.79	
<i>For Elevated Installation >20' To 25', Add</i>	2.24	
<i>For Elevated Installation >25' To 30', Add</i>	3.13	
<i>For Elevated Installation >30' To 35', Add</i>	3.58	
<i>For Elevated Installation >35' To 40', Add</i>	4.48	
<i>For Elevated Installation >40', Add</i>	4.92	
26 05 33 13-0507 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	10.60	5.04
<i>For Work In Restricted Working Space, Add</i>	3.02	
<i>For Elevated Installation >10' To 15', Add</i>	1.01	
<i>For Elevated Installation >15' To 20', Add</i>	2.01	
<i>For Elevated Installation >20' To 25', Add</i>	2.52	
<i>For Elevated Installation >25' To 30', Add</i>	3.52	
<i>For Elevated Installation >30' To 35', Add</i>	4.03	
<i>For Elevated Installation >35' To 40', Add</i>	5.04	
<i>For Elevated Installation >40', Add</i>	5.54	
26 05 33 13-0508 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	14.85	6.72
<i>For Work In Restricted Working Space, Add</i>	4.03	
<i>For Elevated Installation >10' To 15', Add</i>	1.34	
<i>For Elevated Installation >15' To 20', Add</i>	2.69	
<i>For Elevated Installation >20' To 25', Add</i>	3.36	
<i>For Elevated Installation >25' To 30', Add</i>	4.70	
<i>For Elevated Installation >30' To 35', Add</i>	5.37	
<i>For Elevated Installation >35' To 40', Add</i>	6.72	
<i>For Elevated Installation >40', Add</i>	7.39	
26 05 33 13-0509 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	18.35	8.39
<i>For Work In Restricted Working Space, Add</i>	5.03	
<i>For Elevated Installation >10' To 15', Add</i>	1.68	
<i>For Elevated Installation >15' To 20', Add</i>	3.36	
<i>For Elevated Installation >20' To 25', Add</i>	4.20	
<i>For Elevated Installation >25' To 30', Add</i>	5.87	
<i>For Elevated Installation >30' To 35', Add</i>	6.71	
<i>For Elevated Installation >35' To 40', Add</i>	8.39	
<i>For Elevated Installation >40', Add</i>	9.23	
26 05 33 13-0510 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	21.63	9.51
<i>For Work In Restricted Working Space, Add</i>	5.71	
<i>For Elevated Installation >10' To 15', Add</i>	1.90	
<i>For Elevated Installation >15' To 20', Add</i>	3.80	
<i>For Elevated Installation >20' To 25', Add</i>	4.76	
<i>For Elevated Installation >25' To 30', Add</i>	6.66	
<i>For Elevated Installation >30' To 35', Add</i>	7.61	
<i>For Elevated Installation >35' To 40', Add</i>	9.51	
<i>For Elevated Installation >40', Add</i>	10.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0511	EA 4" Rigid Galvanized Steel (RGS) Locknuts	24.26	10.63
	<i>For Work In Restricted Working Space, Add</i>	6.38	
	<i>For Elevated Installation >10' To 15', Add</i>	2.13	
	<i>For Elevated Installation >15' To 20', Add</i>	4.25	
	<i>For Elevated Installation >20' To 25', Add</i>	5.32	
	<i>For Elevated Installation >25' To 30', Add</i>	7.44	
	<i>For Elevated Installation >30' To 35', Add</i>	8.50	
	<i>For Elevated Installation >35' To 40', Add</i>	10.63	
	<i>For Elevated Installation >40', Add</i>	11.69	
26 05 33 13-0512	Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0060)</small>		
26 05 33 13-0513	EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	3.54	1.11
	<i>For Work In Restricted Working Space, Add</i>	0.67	
	<i>For Elevated Installation >10' To 15', Add</i>	0.22	
	<i>For Elevated Installation >15' To 20', Add</i>	0.45	
	<i>For Elevated Installation >20' To 25', Add</i>	0.56	
	<i>For Elevated Installation >25' To 30', Add</i>	0.78	
	<i>For Elevated Installation >30' To 35', Add</i>	0.90	
	<i>For Elevated Installation >35' To 40', Add</i>	1.12	
	<i>For Elevated Installation >40', Add</i>	1.23	
26 05 33 13-0514	EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	4.91	1.68
	<i>For Work In Restricted Working Space, Add</i>	1.01	
	<i>For Elevated Installation >10' To 15', Add</i>	0.34	
	<i>For Elevated Installation >15' To 20', Add</i>	0.67	
	<i>For Elevated Installation >20' To 25', Add</i>	0.84	
	<i>For Elevated Installation >25' To 30', Add</i>	1.17	
	<i>For Elevated Installation >30' To 35', Add</i>	1.34	
	<i>For Elevated Installation >35' To 40', Add</i>	1.68	
	<i>For Elevated Installation >40', Add</i>	1.84	
26 05 33 13-0515	EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts	7.82	2.80
	<i>For Work In Restricted Working Space, Add</i>	1.68	
	<i>For Elevated Installation >10' To 15', Add</i>	0.56	
	<i>For Elevated Installation >15' To 20', Add</i>	1.12	
	<i>For Elevated Installation >20' To 25', Add</i>	1.40	
	<i>For Elevated Installation >25' To 30', Add</i>	1.96	
	<i>For Elevated Installation >30' To 35', Add</i>	2.24	
	<i>For Elevated Installation >35' To 40', Add</i>	2.80	
	<i>For Elevated Installation >40', Add</i>	3.07	
26 05 33 13-0516	EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	10.94	3.91
	<i>For Work In Restricted Working Space, Add</i>	2.35	
	<i>For Elevated Installation >10' To 15', Add</i>	0.78	
	<i>For Elevated Installation >15' To 20', Add</i>	1.57	
	<i>For Elevated Installation >20' To 25', Add</i>	1.96	
	<i>For Elevated Installation >25' To 30', Add</i>	2.74	
	<i>For Elevated Installation >30' To 35', Add</i>	3.13	
	<i>For Elevated Installation >35' To 40', Add</i>	3.92	
	<i>For Elevated Installation >40', Add</i>	4.31	
26 05 33 13-0517	EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	12.35	4.48
	<i>For Work In Restricted Working Space, Add</i>	2.69	
	<i>For Elevated Installation >10' To 15', Add</i>	0.90	
	<i>For Elevated Installation >15' To 20', Add</i>	1.79	
	<i>For Elevated Installation >20' To 25', Add</i>	2.24	
	<i>For Elevated Installation >25' To 30', Add</i>	3.13	
	<i>For Elevated Installation >30' To 35', Add</i>	3.58	
	<i>For Elevated Installation >35' To 40', Add</i>	4.48	
	<i>For Elevated Installation >40', Add</i>	4.92	
26 05 33 13-0518	EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts	14.50	5.04
	<i>For Work In Restricted Working Space, Add</i>	3.02	
	<i>For Elevated Installation >10' To 15', Add</i>	1.01	
	<i>For Elevated Installation >15' To 20', Add</i>	2.01	
	<i>For Elevated Installation >20' To 25', Add</i>	2.52	
	<i>For Elevated Installation >25' To 30', Add</i>	3.52	
	<i>For Elevated Installation >30' To 35', Add</i>	4.03	
	<i>For Elevated Installation >35' To 40', Add</i>	5.04	
	<i>For Elevated Installation >40', Add</i>	5.54	
26 05 33 13-0519	EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	21.67	6.72
	<i>For Work In Restricted Working Space, Add</i>	4.03	
	<i>For Elevated Installation >10' To 15', Add</i>	1.34	
	<i>For Elevated Installation >15' To 20', Add</i>	2.69	
	<i>For Elevated Installation >20' To 25', Add</i>	3.36	
	<i>For Elevated Installation >25' To 30', Add</i>	4.70	
	<i>For Elevated Installation >30' To 35', Add</i>	5.37	
	<i>For Elevated Installation >35' To 40', Add</i>	6.72	
	<i>For Elevated Installation >40', Add</i>	7.39	
26 05 33 13-0520	EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts	27.24	8.39
	<i>For Work In Restricted Working Space, Add</i>	5.03	
	<i>For Elevated Installation >10' To 15', Add</i>	1.68	
	<i>For Elevated Installation >15' To 20', Add</i>	3.36	
	<i>For Elevated Installation >20' To 25', Add</i>	4.20	
	<i>For Elevated Installation >25' To 30', Add</i>	5.87	
	<i>For Elevated Installation >30' To 35', Add</i>	6.71	
	<i>For Elevated Installation >35' To 40', Add</i>	8.39	
	<i>For Elevated Installation >40', Add</i>	9.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0521 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	36.01	9.51
For Work In Restricted Working Space, Add	5.71	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.80	
For Elevated Installation >20' To 25', Add	4.76	
For Elevated Installation >25' To 30', Add	6.66	
For Elevated Installation >30' To 35', Add	7.61	
For Elevated Installation >35' To 40', Add	9.51	
For Elevated Installation >40', Add	10.46	
26 05 33 13-0522 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	43.17	10.63
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0523 Rigid Galvanized Steel (RGS) Insulated Ground Bushing <small>(26 05 33 13-0060)</small>		
26 05 33 13-0524 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	9.97	3.35
For Work In Restricted Working Space, Add	2.02	
For Elevated Installation >10' To 15', Add	0.67	
For Elevated Installation >15' To 20', Add	1.34	
For Elevated Installation >20' To 25', Add	1.68	
For Elevated Installation >25' To 30', Add	2.35	
For Elevated Installation >30' To 35', Add	2.69	
For Elevated Installation >35' To 40', Add	3.36	
For Elevated Installation >40', Add	3.70	
26 05 33 13-0525 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	12.48	4.48
For Work In Restricted Working Space, Add	2.69	
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.79	
For Elevated Installation >20' To 25', Add	2.24	
For Elevated Installation >25' To 30', Add	3.13	
For Elevated Installation >30' To 35', Add	3.58	
For Elevated Installation >35' To 40', Add	4.48	
For Elevated Installation >40', Add	4.92	
26 05 33 13-0526 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	15.94	5.59
For Work In Restricted Working Space, Add	3.36	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.24	
For Elevated Installation >20' To 25', Add	2.80	
For Elevated Installation >25' To 30', Add	3.92	
For Elevated Installation >30' To 35', Add	4.48	
For Elevated Installation >35' To 40', Add	5.60	
For Elevated Installation >40', Add	6.15	
26 05 33 13-0527 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	23.20	8.95
For Work In Restricted Working Space, Add	5.37	
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.48	
For Elevated Installation >25' To 30', Add	6.27	
For Elevated Installation >30' To 35', Add	7.16	
For Elevated Installation >35' To 40', Add	8.95	
For Elevated Installation >40', Add	9.85	
26 05 33 13-0528 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	26.14	10.07
For Work In Restricted Working Space, Add	6.04	
For Elevated Installation >10' To 15', Add	2.01	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.07	
For Elevated Installation >40', Add	11.08	
26 05 33 13-0529 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	29.73	11.19
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.47	
For Elevated Installation >20' To 25', Add	5.59	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.30	
26 05 33 13-0530 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	41.07	13.43
For Work In Restricted Working Space, Add	8.06	
For Elevated Installation >10' To 15', Add	2.69	
For Elevated Installation >15' To 20', Add	5.37	
For Elevated Installation >20' To 25', Add	6.71	
For Elevated Installation >25' To 30', Add	9.40	
For Elevated Installation >30' To 35', Add	10.74	
For Elevated Installation >35' To 40', Add	13.43	
For Elevated Installation >40', Add	14.77	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0531	EA	3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	49.86	16.78
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33	13-0532	EA	3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	61.59	22.37
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0533	EA	4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	74.97	27.98
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33 13-0534 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0060)</small>					
26 05 33	13-0535	EA	1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	23.66	10.07
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Elevated Installation >10' To 15', Add</i>	2.01	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Elevated Installation >20' To 25', Add</i>	5.04	
			<i>For Elevated Installation >25' To 30', Add</i>	7.05	
			<i>For Elevated Installation >30' To 35', Add</i>	8.06	
			<i>For Elevated Installation >35' To 40', Add</i>	10.07	
			<i>For Elevated Installation >40', Add</i>	11.08	
26 05 33	13-0536	EA	3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	28.03	11.19
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.47	
			<i>For Elevated Installation >20' To 25', Add</i>	5.59	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.30	
26 05 33	13-0537	EA	1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	36.82	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
26 05 33	13-0538	EA	1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	50.21	16.78
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33	13-0539	EA	1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	67.81	22.37
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.95	
			<i>For Elevated Installation >20' To 25', Add</i>	11.19	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.90	
			<i>For Elevated Installation >35' To 40', Add</i>	22.38	
			<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33	13-0540	EA	2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	100.16	27.98
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0541 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	169.13	33.57
For Work In Restricted Working Space, Add	20.14	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	
26 05 33 13-0542 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	213.55	39.16
For Work In Restricted Working Space, Add	23.50	
For Elevated Installation >10' To 15', Add	7.83	
For Elevated Installation >15' To 20', Add	15.66	
For Elevated Installation >20' To 25', Add	19.58	
For Elevated Installation >25' To 30', Add	27.41	
For Elevated Installation >30' To 35', Add	31.33	
For Elevated Installation >35' To 40', Add	39.16	
For Elevated Installation >40', Add	43.08	
26 05 33 13-0543 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	271.82	47.55
For Work In Restricted Working Space, Add	28.53	
For Elevated Installation >10' To 15', Add	9.51	
For Elevated Installation >15' To 20', Add	19.02	
For Elevated Installation >20' To 25', Add	23.78	
For Elevated Installation >25' To 30', Add	33.29	
For Elevated Installation >30' To 35', Add	38.04	
For Elevated Installation >35' To 40', Add	47.55	
For Elevated Installation >40', Add	52.31	
26 05 33 13-0544 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	328.23	55.94
For Work In Restricted Working Space, Add	33.56	
For Elevated Installation >10' To 15', Add	11.19	
For Elevated Installation >15' To 20', Add	22.38	
For Elevated Installation >20' To 25', Add	27.97	
For Elevated Installation >25' To 30', Add	39.16	
For Elevated Installation >30' To 35', Add	44.75	
For Elevated Installation >35' To 40', Add	55.94	
For Elevated Installation >40', Add	61.53	
26 05 33 13-0545 Rigid Galvanized Steel (RGS) Compression Coupling <small>(26 05 33 13-0060)</small>		
26 05 33 13-0546 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	33.65	13.98
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
26 05 33 13-0547 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	42.67	16.78
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
26 05 33 13-0548 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling.....	60.63	22.37
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
26 05 33 13-0549 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	79.43	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
26 05 33 13-0550 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	97.71	33.57
For Work In Restricted Working Space, Add	20.14	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0551	EA	2" Rigid Galvanized Steel (RGS) Compression Coupling	145.19	39.16
			<i>For Work In Restricted Working Space, Add</i>	23.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.83	
			<i>For Elevated Installation >15' To 20', Add</i>	15.66	
			<i>For Elevated Installation >20' To 25', Add</i>	19.58	
			<i>For Elevated Installation >25' To 30', Add</i>	27.41	
			<i>For Elevated Installation >30' To 35', Add</i>	31.33	
			<i>For Elevated Installation >35' To 40', Add</i>	39.16	
			<i>For Elevated Installation >40', Add</i>	43.08	
26 05 33	13-0552	EA	2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	230.37	44.76
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
26 05 33	13-0553	EA	3" Rigid Galvanized Steel (RGS) Compression Coupling	263.82	38.61
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For Elevated Installation >10' To 15', Add</i>	7.72	
			<i>For Elevated Installation >15' To 20', Add</i>	15.44	
			<i>For Elevated Installation >20' To 25', Add</i>	19.30	
			<i>For Elevated Installation >25' To 30', Add</i>	27.02	
			<i>For Elevated Installation >30' To 35', Add</i>	30.88	
			<i>For Elevated Installation >35' To 40', Add</i>	38.60	
			<i>For Elevated Installation >40', Add</i>	42.46	
26 05 33	13-0554	EA	3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	363.15	58.74
			<i>For Work In Restricted Working Space, Add</i>	35.24	
			<i>For Elevated Installation >10' To 15', Add</i>	11.75	
			<i>For Elevated Installation >15' To 20', Add</i>	23.50	
			<i>For Elevated Installation >20' To 25', Add</i>	29.37	
			<i>For Elevated Installation >25' To 30', Add</i>	41.12	
			<i>For Elevated Installation >30' To 35', Add</i>	46.99	
			<i>For Elevated Installation >35' To 40', Add</i>	58.74	
			<i>For Elevated Installation >40', Add</i>	64.61	
26 05 33	13-0555	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling	448.62	67.13
			<i>For Work In Restricted Working Space, Add</i>	40.28	
			<i>For Elevated Installation >10' To 15', Add</i>	13.43	
			<i>For Elevated Installation >15' To 20', Add</i>	26.85	
			<i>For Elevated Installation >20' To 25', Add</i>	33.57	
			<i>For Elevated Installation >25' To 30', Add</i>	46.99	
			<i>For Elevated Installation >30' To 35', Add</i>	53.71	
			<i>For Elevated Installation >35' To 40', Add</i>	67.14	
			<i>For Elevated Installation >40', Add</i>	73.85	
26 05 33	13-0556		Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0060)</small>		
26 05 33	13-0557	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal	5.87	2.80
			<i>For Work In Restricted Working Space, Add</i>	1.68	
			<i>For Elevated Installation >10' To 15', Add</i>	0.56	
			<i>For Elevated Installation >15' To 20', Add</i>	1.12	
			<i>For Elevated Installation >20' To 25', Add</i>	1.40	
			<i>For Elevated Installation >25' To 30', Add</i>	1.96	
			<i>For Elevated Installation >30' To 35', Add</i>	2.24	
			<i>For Elevated Installation >35' To 40', Add</i>	2.80	
			<i>For Elevated Installation >40', Add</i>	3.07	
26 05 33	13-0558	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal	7.08	3.35
			<i>For Work In Restricted Working Space, Add</i>	2.02	
			<i>For Elevated Installation >10' To 15', Add</i>	0.67	
			<i>For Elevated Installation >15' To 20', Add</i>	1.34	
			<i>For Elevated Installation >20' To 25', Add</i>	1.68	
			<i>For Elevated Installation >25' To 30', Add</i>	2.35	
			<i>For Elevated Installation >30' To 35', Add</i>	2.69	
			<i>For Elevated Installation >35' To 40', Add</i>	3.36	
			<i>For Elevated Installation >40', Add</i>	3.70	
26 05 33	13-0559	EA	1" Zinc Plated Steel Snap-in Knock Out Seal	8.40	3.91
			<i>For Work In Restricted Working Space, Add</i>	2.35	
			<i>For Elevated Installation >10' To 15', Add</i>	0.78	
			<i>For Elevated Installation >15' To 20', Add</i>	1.57	
			<i>For Elevated Installation >20' To 25', Add</i>	1.96	
			<i>For Elevated Installation >25' To 30', Add</i>	2.74	
			<i>For Elevated Installation >30' To 35', Add</i>	3.13	
			<i>For Elevated Installation >35' To 40', Add</i>	3.92	
			<i>For Elevated Installation >40', Add</i>	4.31	
26 05 33	13-0560	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	10.82	5.04
			<i>For Work In Restricted Working Space, Add</i>	3.02	
			<i>For Elevated Installation >10' To 15', Add</i>	1.01	
			<i>For Elevated Installation >15' To 20', Add</i>	2.01	
			<i>For Elevated Installation >20' To 25', Add</i>	2.52	
			<i>For Elevated Installation >25' To 30', Add</i>	3.52	
			<i>For Elevated Installation >30' To 35', Add</i>	4.03	
			<i>For Elevated Installation >35' To 40', Add</i>	5.04	
			<i>For Elevated Installation >40', Add</i>	5.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0561 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	12.24	5.59
For Work In Restricted Working Space, Add	3.36	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.24	
For Elevated Installation >20' To 25', Add	2.80	
For Elevated Installation >25' To 30', Add	3.92	
For Elevated Installation >30' To 35', Add	4.48	
For Elevated Installation >35' To 40', Add	5.60	
For Elevated Installation >40', Add	6.15	
26 05 33 13-0562 EA 2" Zinc Plated Steel Snap-in Knock Out Seal	14.90	6.72
For Work In Restricted Working Space, Add	4.03	
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.36	
For Elevated Installation >25' To 30', Add	4.70	
For Elevated Installation >30' To 35', Add	5.37	
For Elevated Installation >35' To 40', Add	6.72	
For Elevated Installation >40', Add	7.39	
26 05 33 13-0563 Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0060)</small>	7.24	2.80
26 05 33 13-0564 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal	7.24	2.80
For Work In Restricted Working Space, Add	1.68	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.12	
For Elevated Installation >20' To 25', Add	1.40	
For Elevated Installation >25' To 30', Add	1.96	
For Elevated Installation >30' To 35', Add	2.24	
For Elevated Installation >35' To 40', Add	2.80	
For Elevated Installation >40', Add	3.07	
26 05 33 13-0565 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal	8.64	3.35
For Work In Restricted Working Space, Add	2.02	
For Elevated Installation >10' To 15', Add	0.67	
For Elevated Installation >15' To 20', Add	1.34	
For Elevated Installation >20' To 25', Add	1.68	
For Elevated Installation >25' To 30', Add	2.35	
For Elevated Installation >30' To 35', Add	2.69	
For Elevated Installation >35' To 40', Add	3.36	
For Elevated Installation >40', Add	3.70	
26 05 33 13-0566 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	10.48	3.91
For Work In Restricted Working Space, Add	2.35	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.57	
For Elevated Installation >20' To 25', Add	1.96	
For Elevated Installation >25' To 30', Add	2.74	
For Elevated Installation >30' To 35', Add	3.13	
For Elevated Installation >35' To 40', Add	3.92	
For Elevated Installation >40', Add	4.31	
26 05 33 13-0567 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	13.48	5.04
For Work In Restricted Working Space, Add	3.02	
For Elevated Installation >10' To 15', Add	1.01	
For Elevated Installation >15' To 20', Add	2.01	
For Elevated Installation >20' To 25', Add	2.52	
For Elevated Installation >25' To 30', Add	3.52	
For Elevated Installation >30' To 35', Add	4.03	
For Elevated Installation >35' To 40', Add	5.04	
For Elevated Installation >40', Add	5.54	
26 05 33 13-0568 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	16.63	5.59
For Work In Restricted Working Space, Add	3.36	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.24	
For Elevated Installation >20' To 25', Add	2.80	
For Elevated Installation >25' To 30', Add	3.92	
For Elevated Installation >30' To 35', Add	4.48	
For Elevated Installation >35' To 40', Add	5.60	
For Elevated Installation >40', Add	6.15	
26 05 33 13-0569 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	20.13	6.72
For Work In Restricted Working Space, Add	4.03	
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.36	
For Elevated Installation >25' To 30', Add	4.70	
For Elevated Installation >30' To 35', Add	5.37	
For Elevated Installation >35' To 40', Add	6.72	
For Elevated Installation >40', Add	7.39	
26 05 33 13-0570 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	24.66	8.39
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0571	EA	3" Zinc Plated Steel 3-Piece Knock Out Seal	28.86	9.51
			<i>For Work In Restricted Working Space, Add</i>	5.71	
			<i>For Elevated Installation >10' To 15', Add</i>	1.90	
			<i>For Elevated Installation >15' To 20', Add</i>	3.80	
			<i>For Elevated Installation >20' To 25', Add</i>	4.76	
			<i>For Elevated Installation >25' To 30', Add</i>	6.66	
			<i>For Elevated Installation >30' To 35', Add</i>	7.61	
			<i>For Elevated Installation >35' To 40', Add</i>	9.51	
			<i>For Elevated Installation >40', Add</i>	10.46	
26 05 33	13-0572	EA	3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	35.12	10.63
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.32	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	
26 05 33	13-0573	EA	4" Zinc Plated Steel 3-Piece Knock Out Seal	41.28	11.74
			<i>For Work In Restricted Working Space, Add</i>	7.05	
			<i>For Elevated Installation >10' To 15', Add</i>	2.35	
			<i>For Elevated Installation >15' To 20', Add</i>	4.70	
			<i>For Elevated Installation >20' To 25', Add</i>	5.88	
			<i>For Elevated Installation >25' To 30', Add</i>	8.23	
			<i>For Elevated Installation >30' To 35', Add</i>	9.40	
			<i>For Elevated Installation >35' To 40', Add</i>	11.75	
			<i>For Elevated Installation >40', Add</i>	12.93	
26 05 33 13-0574 Rigid Galvanized Steel (RGS) Chase Nipples <small>(26 05 33 13-0060)</small>					
26 05 33	13-0575	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	13.85	6.72
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.69	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.72	
			<i>For Elevated Installation >40', Add</i>	7.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33	13-0576	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	16.37	7.83
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.13	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.48	
			<i>For Elevated Installation >30' To 35', Add</i>	6.26	
			<i>For Elevated Installation >35' To 40', Add</i>	7.83	
			<i>For Elevated Installation >40', Add</i>	8.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33	13-0577	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple.....	20.56	9.51
			<i>For Work In Restricted Working Space, Add</i>	5.71	
			<i>For Elevated Installation >10' To 15', Add</i>	1.90	
			<i>For Elevated Installation >15' To 20', Add</i>	3.80	
			<i>For Elevated Installation >20' To 25', Add</i>	4.76	
			<i>For Elevated Installation >25' To 30', Add</i>	6.66	
			<i>For Elevated Installation >30' To 35', Add</i>	7.61	
			<i>For Elevated Installation >35' To 40', Add</i>	9.51	
			<i>For Elevated Installation >40', Add</i>	10.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.71	
26 05 33	13-0578	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	25.04	11.19
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.47	
			<i>For Elevated Installation >20' To 25', Add</i>	5.59	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.71	
26 05 33	13-0579	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	31.42	13.98
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0580 EA 2" Rigid Galvanized Steel (RGS) Chase Nipple.....	39.15	16.78
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0581 EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	49.77	19.58
For Work In Restricted Working Space, Add	11.75	
For Elevated Installation >10' To 15', Add	3.92	
For Elevated Installation >15' To 20', Add	7.83	
For Elevated Installation >20' To 25', Add	9.79	
For Elevated Installation >25' To 30', Add	13.71	
For Elevated Installation >30' To 35', Add	15.66	
For Elevated Installation >35' To 40', Add	19.58	
For Elevated Installation >40', Add	21.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.75	
26 05 33 13-0582 EA 3" Rigid Galvanized Steel (RGS) Chase Nipple.....	55.65	22.37
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 33 13-0583 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	69.60	25.17
For Work In Restricted Working Space, Add	15.11	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.18	
For Elevated Installation >40', Add	27.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.11	
26 05 33 13-0584 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	96.28	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0585 Rigid Galvanized Steel (RGS) Pulling Elbow <small>(26 05 33 13-0060)</small>		
26 05 33 13-0586 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	27.46	10.07
For Work In Restricted Working Space, Add	6.04	
For Elevated Installation >10' To 15', Add	2.01	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.07	
For Elevated Installation >40', Add	11.08	
26 05 33 13-0587 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	31.90	11.74
For Work In Restricted Working Space, Add	7.05	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.70	
For Elevated Installation >20' To 25', Add	5.88	
For Elevated Installation >25' To 30', Add	8.23	
For Elevated Installation >30' To 35', Add	9.40	
For Elevated Installation >35' To 40', Add	11.75	
For Elevated Installation >40', Add	12.93	
26 05 33 13-0588 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	40.80	13.43
For Work In Restricted Working Space, Add	8.06	
For Elevated Installation >10' To 15', Add	2.69	
For Elevated Installation >15' To 20', Add	5.37	
For Elevated Installation >20' To 25', Add	6.71	
For Elevated Installation >25' To 30', Add	9.40	
For Elevated Installation >30' To 35', Add	10.74	
For Elevated Installation >35' To 40', Add	13.43	
For Elevated Installation >40', Add	14.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0589	EA	1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	52.35	16.78
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33	13-0590	EA	1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	70.09	20.14
			<i>For Work In Restricted Working Space, Add</i>	12.08	
			<i>For Elevated Installation >10' To 15', Add</i>	4.03	
			<i>For Elevated Installation >15' To 20', Add</i>	8.06	
			<i>For Elevated Installation >20' To 25', Add</i>	10.07	
			<i>For Elevated Installation >25' To 30', Add</i>	14.10	
			<i>For Elevated Installation >30' To 35', Add</i>	16.11	
			<i>For Elevated Installation >35' To 40', Add</i>	20.14	
			<i>For Elevated Installation >40', Add</i>	22.15	
26 05 33	13-0591	EA	2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	94.17	23.50
			<i>For Work In Restricted Working Space, Add</i>	14.10	
			<i>For Elevated Installation >10' To 15', Add</i>	4.70	
			<i>For Elevated Installation >15' To 20', Add</i>	9.40	
			<i>For Elevated Installation >20' To 25', Add</i>	11.75	
			<i>For Elevated Installation >25' To 30', Add</i>	16.45	
			<i>For Elevated Installation >30' To 35', Add</i>	18.80	
			<i>For Elevated Installation >35' To 40', Add</i>	23.50	
			<i>For Elevated Installation >40', Add</i>	25.84	
26 05 33	13-0592	EA	2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	131.59	26.85
			<i>For Work In Restricted Working Space, Add</i>	16.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.37	
			<i>For Elevated Installation >15' To 20', Add</i>	10.74	
			<i>For Elevated Installation >20' To 25', Add</i>	13.43	
			<i>For Elevated Installation >25' To 30', Add</i>	18.80	
			<i>For Elevated Installation >30' To 35', Add</i>	21.48	
			<i>For Elevated Installation >35' To 40', Add</i>	26.85	
			<i>For Elevated Installation >40', Add</i>	29.54	
26 05 33	13-0593	EA	3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	232.14	33.57
			<i>For Work In Restricted Working Space, Add</i>	20.14	
			<i>For Elevated Installation >10' To 15', Add</i>	6.71	
			<i>For Elevated Installation >15' To 20', Add</i>	13.43	
			<i>For Elevated Installation >20' To 25', Add</i>	16.78	
			<i>For Elevated Installation >25' To 30', Add</i>	23.50	
			<i>For Elevated Installation >30' To 35', Add</i>	26.85	
			<i>For Elevated Installation >35' To 40', Add</i>	33.57	
			<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33	13-0594		Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0059)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-0595		Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0594)</small>		
			Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33	13-0596	LF	1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.08	2.02
			<i>For >250 To 500, Deduct</i>	-0.05	
			<i>For >500 To 1,000, Deduct</i>	-0.33	
			<i>For >1,000, Deduct</i>	-0.48	
			<i>For Installation In Metal Stud Wall, Add</i>	0.50	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.26	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.76	
			<i>For Work In Restricted Working Space, Add</i>	1.51	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	1.01	
			<i>For Elevated Installation >20' To 25', Add</i>	1.26	
			<i>For Elevated Installation >25' To 30', Add</i>	1.76	
			<i>For Elevated Installation >30' To 35', Add</i>	2.02	
			<i>For Elevated Installation >35' To 40', Add</i>	2.52	
			<i>For Elevated Installation >40', Add</i>	2.77	
			<i>For Factory Applied Color Coating, Add</i>	0.31	
26 05 33	13-0597	LF	3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.22	2.24
			<i>For >250 To 500, Deduct</i>	-0.08	
			<i>For >500 To 1,000, Deduct</i>	-0.40	
			<i>For >1,000, Deduct</i>	-0.58	
			<i>For Installation In Metal Stud Wall, Add</i>	0.56	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.40	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	1.68	
			<i>For Elevated Installation >10' To 15', Add</i>	0.56	
			<i>For Elevated Installation >15' To 20', Add</i>	1.12	
			<i>For Elevated Installation >20' To 25', Add</i>	1.40	
			<i>For Elevated Installation >25' To 30', Add</i>	1.96	
			<i>For Elevated Installation >30' To 35', Add</i>	2.24	
			<i>For Elevated Installation >35' To 40', Add</i>	2.80	
			<i>For Elevated Installation >40', Add</i>	3.07	
			<i>For Factory Applied Color Coating, Add</i>	0.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0598 LF 1" Electrical Metallic Tubing (EMT) Conduit.....	8.86	2.46
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.51	
For >1,000, Deduct	-0.73	
For Installation In Metal Stud Wall, Add	0.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.92	
For Work In Restricted Working Space, Add	1.85	
For Elevated Installation >10' To 15', Add	0.62	
For Elevated Installation >15' To 20', Add	1.23	
For Elevated Installation >20' To 25', Add	1.54	
For Elevated Installation >25' To 30', Add	2.15	
For Elevated Installation >30' To 35', Add	2.46	
For Elevated Installation >35' To 40', Add	3.08	
For Elevated Installation >40', Add	3.38	
For Factory Applied Color Coating, Add	0.81	
26 05 33 13-0599 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit	11.22	2.77
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.67	
For >1,000, Deduct	-0.95	
For Installation In Metal Stud Wall, Add	0.69	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.74	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.74	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.78	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.82	
For Factory Applied Color Coating, Add	1.28	
26 05 33 13-0600 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit	13.16	3.13
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.12	
For Installation In Metal Stud Wall, Add	0.78	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.96	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.17	
For Work In Restricted Working Space, Add	2.35	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.57	
For Elevated Installation >20' To 25', Add	1.96	
For Elevated Installation >25' To 30', Add	2.74	
For Elevated Installation >30' To 35', Add	3.13	
For Elevated Installation >35' To 40', Add	3.92	
For Elevated Installation >40', Add	4.31	
For Factory Applied Color Coating, Add	1.60	
26 05 33 13-0601 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	15.27	3.58
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.92	
For >1,000, Deduct	-1.30	
For Installation In Metal Stud Wall, Add	0.90	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.24	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.34	
For Work In Restricted Working Space, Add	2.69	
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.79	
For Elevated Installation >20' To 25', Add	2.24	
For Elevated Installation >25' To 30', Add	3.13	
For Elevated Installation >30' To 35', Add	3.58	
For Elevated Installation >35' To 40', Add	4.48	
For Elevated Installation >40', Add	4.92	
For Factory Applied Color Coating, Add	1.90	
26 05 33 13-0602 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit	19.99	4.26
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-1.23	
For >1,000, Deduct	-1.73	
For Installation In Metal Stud Wall, Add	1.06	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.66	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.59	
For Work In Restricted Working Space, Add	3.19	
For Elevated Installation >10' To 15', Add	1.06	
For Elevated Installation >15' To 20', Add	2.13	
For Elevated Installation >20' To 25', Add	2.66	
For Elevated Installation >25' To 30', Add	3.72	
For Elevated Installation >30' To 35', Add	4.25	
For Elevated Installation >35' To 40', Add	5.32	
For Elevated Installation >40', Add	5.85	
For Factory Applied Color Coating, Add	2.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0603	LF		3" Electrical Metallic Tubing (EMT) Conduit.....	24.03	4.92
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500 To 1,000, Deduct</i>	-1.49	
			<i>For >1,000, Deduct</i>	-2.10	
			<i>For Installation In Metal Stud Wall, Add</i>	1.23	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.08	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For Elevated Installation >10' To 15', Add</i>	1.23	
			<i>For Elevated Installation >15' To 20', Add</i>	2.46	
			<i>For Elevated Installation >20' To 25', Add</i>	3.08	
			<i>For Elevated Installation >25' To 30', Add</i>	4.31	
			<i>For Elevated Installation >30' To 35', Add</i>	4.92	
			<i>For Elevated Installation >35' To 40', Add</i>	6.16	
			<i>For Elevated Installation >40', Add</i>	6.77	
			<i>For Factory Applied Color Coating, Add</i>	3.52	
26 05 33 13-0604	LF		3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	30.20	5.82
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500 To 1,000, Deduct</i>	-1.90	
			<i>For >1,000, Deduct</i>	-2.66	
			<i>For Installation In Metal Stud Wall, Add</i>	1.45	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.64	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.18	
			<i>For Work In Restricted Working Space, Add</i>	4.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Factory Applied Color Coating, Add</i>	4.70	
26 05 33 13-0605	LF		4" Electrical Metallic Tubing (EMT) Conduit.....	39.67	8.82
			<i>For >250 To 500, Deduct</i>	-0.88	
			<i>For >500 To 1,000, Deduct</i>	-2.42	
			<i>For >1,000, Deduct</i>	-3.42	
			<i>For Installation In Metal Stud Wall, Add</i>	2.20	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5.51	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.30	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Elevated Installation >10' To 15', Add</i>	2.20	
			<i>For Elevated Installation >15' To 20', Add</i>	4.41	
			<i>For Elevated Installation >20' To 25', Add</i>	5.51	
			<i>For Elevated Installation >25' To 30', Add</i>	7.71	
			<i>For Elevated Installation >30' To 35', Add</i>	8.81	
			<i>For Elevated Installation >35' To 40', Add</i>	11.02	
			<i>For Elevated Installation >40', Add</i>	12.12	
			<i>For Factory Applied Color Coating, Add</i>	5.29	
26 05 33 13-0606			Electrical Metallic Tubing (EMT) 90 Degree Elbows <small>(26 05 33 13-0594)</small>		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0607	EA		1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	14.63	4.92
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For Elevated Installation >10' To 15', Add</i>	1.23	
			<i>For Elevated Installation >15' To 20', Add</i>	2.46	
			<i>For Elevated Installation >20' To 25', Add</i>	3.08	
			<i>For Elevated Installation >25' To 30', Add</i>	4.31	
			<i>For Elevated Installation >30' To 35', Add</i>	4.92	
			<i>For Elevated Installation >35' To 40', Add</i>	6.16	
			<i>For Elevated Installation >40', Add</i>	6.77	
26 05 33 13-0608	EA		3/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	15.49	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.69	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.72	
			<i>For Elevated Installation >40', Add</i>	7.39	
26 05 33 13-0609	EA		1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	18.91	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.13	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.48	
			<i>For Elevated Installation >30' To 35', Add</i>	6.27	
			<i>For Elevated Installation >35' To 40', Add</i>	7.84	
			<i>For Elevated Installation >40', Add</i>	8.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0610 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow	20.81	6.72
For Work In Restricted Working Space, Add	5.03	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.87	
For Elevated Installation >30' To 35', Add	6.71	
For Elevated Installation >35' To 40', Add	8.39	
For Elevated Installation >40', Add	9.23	
26 05 33 13-0611 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	24.68	8.06
For Work In Restricted Working Space, Add	6.05	
For Elevated Installation >10' To 15', Add	2.02	
For Elevated Installation >15' To 20', Add	4.03	
For Elevated Installation >20' To 25', Add	5.04	
For Elevated Installation >25' To 30', Add	7.05	
For Elevated Installation >30' To 35', Add	8.06	
For Elevated Installation >35' To 40', Add	10.08	
For Elevated Installation >40', Add	11.08	
26 05 33 13-0612 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	32.44	10.29
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.44	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.30	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.16	
26 05 33 13-0613 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	43.89	11.63
For Work In Restricted Working Space, Add	8.73	
For Elevated Installation >10' To 15', Add	2.91	
For Elevated Installation >15' To 20', Add	5.82	
For Elevated Installation >20' To 25', Add	7.27	
For Elevated Installation >25' To 30', Add	10.18	
For Elevated Installation >30' To 35', Add	11.64	
For Elevated Installation >35' To 40', Add	14.55	
For Elevated Installation >40', Add	16.00	
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	56.35	12.98
For Work In Restricted Working Space, Add	9.74	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.49	
For Elevated Installation >20' To 25', Add	8.11	
For Elevated Installation >25' To 30', Add	11.36	
For Elevated Installation >30' To 35', Add	12.98	
For Elevated Installation >35' To 40', Add	16.23	
For Elevated Installation >40', Add	17.85	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	64.08	14.32
For Work In Restricted Working Space, Add	10.74	
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.16	
For Elevated Installation >20' To 25', Add	8.95	
For Elevated Installation >25' To 30', Add	12.53	
For Elevated Installation >30' To 35', Add	14.32	
For Elevated Installation >35' To 40', Add	17.91	
For Elevated Installation >40', Add	19.70	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	134.82	38.56
For Work In Restricted Working Space, Add	28.92	
For Elevated Installation >10' To 15', Add	9.64	
For Elevated Installation >15' To 20', Add	19.28	
For Elevated Installation >20' To 25', Add	24.10	
For Elevated Installation >25' To 30', Add	33.74	
For Elevated Installation >30' To 35', Add	38.56	
For Elevated Installation >35' To 40', Add	48.20	
For Elevated Installation >40', Add	53.02	
26 05 33 13-0617 Electrical Metallic Tubing (EMT) 45 Degree Elbows (26 05 33 13-0594)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0618 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	14.38	4.92
For Work In Restricted Working Space, Add	3.69	
For Elevated Installation >10' To 15', Add	1.23	
For Elevated Installation >15' To 20', Add	2.46	
For Elevated Installation >20' To 25', Add	3.08	
For Elevated Installation >25' To 30', Add	4.31	
For Elevated Installation >30' To 35', Add	4.92	
For Elevated Installation >35' To 40', Add	6.16	
For Elevated Installation >40', Add	6.77	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	15.64	5.37
For Work In Restricted Working Space, Add	4.03	
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.36	
For Elevated Installation >25' To 30', Add	4.70	
For Elevated Installation >30' To 35', Add	5.37	
For Elevated Installation >35' To 40', Add	6.72	
For Elevated Installation >40', Add	7.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0620	EA	1" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	19.24	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.13	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.48	
			<i>For Elevated Installation >30' To 35', Add</i>	6.27	
			<i>For Elevated Installation >35' To 40', Add</i>	7.84	
			<i>For Elevated Installation >40', Add</i>	8.62	
26 05 33	13-0621	EA	1-1/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow	21.43	6.72
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.36	
			<i>For Elevated Installation >20' To 25', Add</i>	4.20	
			<i>For Elevated Installation >25' To 30', Add</i>	5.87	
			<i>For Elevated Installation >30' To 35', Add</i>	6.71	
			<i>For Elevated Installation >35' To 40', Add</i>	8.39	
			<i>For Elevated Installation >40', Add</i>	9.23	
26 05 33	13-0622	EA	1-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	25.46	8.06
			<i>For Work In Restricted Working Space, Add</i>	6.05	
			<i>For Elevated Installation >10' To 15', Add</i>	2.02	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Elevated Installation >20' To 25', Add</i>	5.04	
			<i>For Elevated Installation >25' To 30', Add</i>	7.05	
			<i>For Elevated Installation >30' To 35', Add</i>	8.06	
			<i>For Elevated Installation >35' To 40', Add</i>	10.08	
			<i>For Elevated Installation >40', Add</i>	11.08	
26 05 33	13-0623	EA	2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	32.19	10.29
			<i>For Work In Restricted Working Space, Add</i>	7.72	
			<i>For Elevated Installation >10' To 15', Add</i>	2.57	
			<i>For Elevated Installation >15' To 20', Add</i>	5.15	
			<i>For Elevated Installation >20' To 25', Add</i>	6.44	
			<i>For Elevated Installation >25' To 30', Add</i>	9.01	
			<i>For Elevated Installation >30' To 35', Add</i>	10.30	
			<i>For Elevated Installation >35' To 40', Add</i>	12.87	
			<i>For Elevated Installation >40', Add</i>	14.16	
26 05 33	13-0624	EA	2-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	46.15	11.63
			<i>For Work In Restricted Working Space, Add</i>	8.73	
			<i>For Elevated Installation >10' To 15', Add</i>	2.91	
			<i>For Elevated Installation >15' To 20', Add</i>	5.82	
			<i>For Elevated Installation >20' To 25', Add</i>	7.27	
			<i>For Elevated Installation >25' To 30', Add</i>	10.18	
			<i>For Elevated Installation >30' To 35', Add</i>	11.64	
			<i>For Elevated Installation >35' To 40', Add</i>	14.55	
			<i>For Elevated Installation >40', Add</i>	16.00	
26 05 33	13-0625	EA	3" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	58.15	12.98
			<i>For Work In Restricted Working Space, Add</i>	9.74	
			<i>For Elevated Installation >10' To 15', Add</i>	3.25	
			<i>For Elevated Installation >15' To 20', Add</i>	6.49	
			<i>For Elevated Installation >20' To 25', Add</i>	8.11	
			<i>For Elevated Installation >25' To 30', Add</i>	11.36	
			<i>For Elevated Installation >30' To 35', Add</i>	12.98	
			<i>For Elevated Installation >35' To 40', Add</i>	16.23	
			<i>For Elevated Installation >40', Add</i>	17.85	
26 05 33	13-0626	EA	3-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	68.97	14.32
			<i>For Work In Restricted Working Space, Add</i>	10.74	
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.16	
			<i>For Elevated Installation >20' To 25', Add</i>	8.95	
			<i>For Elevated Installation >25' To 30', Add</i>	12.53	
			<i>For Elevated Installation >30' To 35', Add</i>	14.32	
			<i>For Elevated Installation >35' To 40', Add</i>	17.91	
			<i>For Elevated Installation >40', Add</i>	19.70	
26 05 33	13-0627	EA	4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	131.40	38.56
			<i>For Work In Restricted Working Space, Add</i>	28.92	
			<i>For Elevated Installation >10' To 15', Add</i>	9.64	
			<i>For Elevated Installation >15' To 20', Add</i>	19.28	
			<i>For Elevated Installation >20' To 25', Add</i>	24.10	
			<i>For Elevated Installation >25' To 30', Add</i>	33.74	
			<i>For Elevated Installation >30' To 35', Add</i>	38.56	
			<i>For Elevated Installation >35' To 40', Add</i>	48.20	
			<i>For Elevated Installation >40', Add</i>	53.02	
26 05 33	13-0628		Electrical Metallic Tubing (EMT) Set Screw Couplings <small>(26 05 33 13-0594)</small>		
26 05 33	13-0629	EA	1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.86	2.69
			<i>For Work In Restricted Working Space, Add</i>	1.68	
			<i>For Elevated Installation >10' To 15', Add</i>	0.56	
			<i>For Elevated Installation >15' To 20', Add</i>	1.12	
			<i>For Elevated Installation >20' To 25', Add</i>	1.40	
			<i>For Elevated Installation >25' To 30', Add</i>	1.96	
			<i>For Elevated Installation >30' To 35', Add</i>	2.24	
			<i>For Elevated Installation >35' To 40', Add</i>	2.80	
			<i>For Elevated Installation >40', Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0630 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.11	2.69
<i>For Work In Restricted Working Space, Add</i>	2.02	
<i>For Elevated Installation >10' To 15', Add</i>	0.67	
<i>For Elevated Installation >15' To 20', Add</i>	1.34	
<i>For Elevated Installation >20' To 25', Add</i>	1.68	
<i>For Elevated Installation >25' To 30', Add</i>	2.35	
<i>For Elevated Installation >30' To 35', Add</i>	2.69	
<i>For Elevated Installation >35' To 40', Add</i>	3.36	
<i>For Elevated Installation >40', Add</i>	3.70	
26 05 33 13-0631 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.43	3.13
<i>For Work In Restricted Working Space, Add</i>	2.35	
<i>For Elevated Installation >10' To 15', Add</i>	0.78	
<i>For Elevated Installation >15' To 20', Add</i>	1.57	
<i>For Elevated Installation >20' To 25', Add</i>	1.96	
<i>For Elevated Installation >25' To 30', Add</i>	2.74	
<i>For Elevated Installation >30' To 35', Add</i>	3.13	
<i>For Elevated Installation >35' To 40', Add</i>	3.92	
<i>For Elevated Installation >40', Add</i>	4.31	
26 05 33 13-0632 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	11.38	4.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
<i>For Elevated Installation >10' To 15', Add</i>	1.01	
<i>For Elevated Installation >15' To 20', Add</i>	2.01	
<i>For Elevated Installation >20' To 25', Add</i>	2.52	
<i>For Elevated Installation >25' To 30', Add</i>	3.52	
<i>For Elevated Installation >30' To 35', Add</i>	4.03	
<i>For Elevated Installation >35' To 40', Add</i>	5.04	
<i>For Elevated Installation >40', Add</i>	5.54	
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	14.04	4.92
<i>For Work In Restricted Working Space, Add</i>	3.69	
<i>For Elevated Installation >10' To 15', Add</i>	1.23	
<i>For Elevated Installation >15' To 20', Add</i>	2.46	
<i>For Elevated Installation >20' To 25', Add</i>	3.08	
<i>For Elevated Installation >25' To 30', Add</i>	4.31	
<i>For Elevated Installation >30' To 35', Add</i>	4.92	
<i>For Elevated Installation >35' To 40', Add</i>	6.16	
<i>For Elevated Installation >40', Add</i>	6.77	
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	19.08	6.72
<i>For Work In Restricted Working Space, Add</i>	5.03	
<i>For Elevated Installation >10' To 15', Add</i>	1.68	
<i>For Elevated Installation >15' To 20', Add</i>	3.36	
<i>For Elevated Installation >20' To 25', Add</i>	4.20	
<i>For Elevated Installation >25' To 30', Add</i>	5.87	
<i>For Elevated Installation >30' To 35', Add</i>	6.71	
<i>For Elevated Installation >35' To 40', Add</i>	8.39	
<i>For Elevated Installation >40', Add</i>	9.23	
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	26.40	8.95
<i>For Work In Restricted Working Space, Add</i>	6.71	
<i>For Elevated Installation >10' To 15', Add</i>	2.24	
<i>For Elevated Installation >15' To 20', Add</i>	4.47	
<i>For Elevated Installation >20' To 25', Add</i>	5.59	
<i>For Elevated Installation >25' To 30', Add</i>	7.83	
<i>For Elevated Installation >30' To 35', Add</i>	8.95	
<i>For Elevated Installation >35' To 40', Add</i>	11.19	
<i>For Elevated Installation >40', Add</i>	12.30	
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	34.23	10.29
<i>For Work In Restricted Working Space, Add</i>	8.39	
<i>For Elevated Installation >10' To 15', Add</i>	2.80	
<i>For Elevated Installation >15' To 20', Add</i>	5.60	
<i>For Elevated Installation >20' To 25', Add</i>	7.00	
<i>For Elevated Installation >25' To 30', Add</i>	9.79	
<i>For Elevated Installation >30' To 35', Add</i>	11.19	
<i>For Elevated Installation >35' To 40', Add</i>	13.99	
<i>For Elevated Installation >40', Add</i>	15.39	
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	38.52	11.19
<i>For Work In Restricted Working Space, Add</i>	10.07	
<i>For Elevated Installation >10' To 15', Add</i>	3.36	
<i>For Elevated Installation >15' To 20', Add</i>	6.71	
<i>For Elevated Installation >20' To 25', Add</i>	8.39	
<i>For Elevated Installation >25' To 30', Add</i>	11.75	
<i>For Elevated Installation >30' To 35', Add</i>	13.43	
<i>For Elevated Installation >35' To 40', Add</i>	16.79	
<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	112.24	31.95
<i>For Work In Restricted Working Space, Add</i>	31.03	
<i>For Elevated Installation >10' To 15', Add</i>	10.34	
<i>For Elevated Installation >15' To 20', Add</i>	20.68	
<i>For Elevated Installation >20' To 25', Add</i>	25.86	
<i>For Elevated Installation >25' To 30', Add</i>	36.20	
<i>For Elevated Installation >30' To 35', Add</i>	41.37	
<i>For Elevated Installation >35' To 40', Add</i>	51.71	
<i>For Elevated Installation >40', Add</i>	56.88	

26 05 33 13-0639 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0594)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0640	EA	1/2 Electrical Metallic Tubing (EMT) Compression Coupling	7.38	2.69
			<i>For Work In Restricted Working Space, Add</i>	2.02	
			<i>For Elevated Installation >10' To 15', Add</i>	0.67	
			<i>For Elevated Installation >15' To 20', Add</i>	1.34	
			<i>For Elevated Installation >20' To 25', Add</i>	1.68	
			<i>For Elevated Installation >25' To 30', Add</i>	2.35	
			<i>For Elevated Installation >30' To 35', Add</i>	2.69	
			<i>For Elevated Installation >35' To 40', Add</i>	3.36	
			<i>For Elevated Installation >40', Add</i>	3.70	
26 05 33	13-0641	EA	3/4" Electrical Metallic Tubing (EMT) Compression Coupling	8.56	3.13
			<i>For Work In Restricted Working Space, Add</i>	2.35	
			<i>For Elevated Installation >10' To 15', Add</i>	0.78	
			<i>For Elevated Installation >15' To 20', Add</i>	1.57	
			<i>For Elevated Installation >20' To 25', Add</i>	1.96	
			<i>For Elevated Installation >25' To 30', Add</i>	2.74	
			<i>For Elevated Installation >30' To 35', Add</i>	3.13	
			<i>For Elevated Installation >35' To 40', Add</i>	3.92	
			<i>For Elevated Installation >40', Add</i>	4.31	
26 05 33	13-0642	EA	1" Electrical Metallic Tubing (EMT) Compression Coupling	12.20	4.48
			<i>For Work In Restricted Working Space, Add</i>	3.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.12	
			<i>For Elevated Installation >15' To 20', Add</i>	2.24	
			<i>For Elevated Installation >20' To 25', Add</i>	2.80	
			<i>For Elevated Installation >25' To 30', Add</i>	3.92	
			<i>For Elevated Installation >30' To 35', Add</i>	4.48	
			<i>For Elevated Installation >35' To 40', Add</i>	5.60	
			<i>For Elevated Installation >40', Add</i>	6.15	
26 05 33	13-0643	EA	1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling	15.54	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.69	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.72	
			<i>For Elevated Installation >40', Add</i>	7.39	
26 05 33	13-0644	EA	1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling	18.63	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.13	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.48	
			<i>For Elevated Installation >30' To 35', Add</i>	6.26	
			<i>For Elevated Installation >35' To 40', Add</i>	7.83	
			<i>For Elevated Installation >40', Add</i>	8.61	
26 05 33	13-0645	EA	2" Electrical Metallic Tubing (EMT) Compression Coupling	24.82	8.06
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Elevated Installation >10' To 15', Add</i>	2.01	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Elevated Installation >20' To 25', Add</i>	5.04	
			<i>For Elevated Installation >25' To 30', Add</i>	7.05	
			<i>For Elevated Installation >30' To 35', Add</i>	8.06	
			<i>For Elevated Installation >35' To 40', Add</i>	10.07	
			<i>For Elevated Installation >40', Add</i>	11.08	
26 05 33	13-0646	EA	2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling	39.07	10.74
			<i>For Work In Restricted Working Space, Add</i>	8.06	
			<i>For Elevated Installation >10' To 15', Add</i>	2.69	
			<i>For Elevated Installation >15' To 20', Add</i>	5.37	
			<i>For Elevated Installation >20' To 25', Add</i>	6.71	
			<i>For Elevated Installation >25' To 30', Add</i>	9.40	
			<i>For Elevated Installation >30' To 35', Add</i>	10.74	
			<i>For Elevated Installation >35' To 40', Add</i>	13.43	
			<i>For Elevated Installation >40', Add</i>	14.77	
26 05 33	13-0647	EA	3" Electrical Metallic Tubing (EMT) Compression Coupling	45.21	12.53
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.83	
			<i>For Elevated Installation >25' To 30', Add</i>	10.97	
			<i>For Elevated Installation >30' To 35', Add</i>	12.53	
			<i>For Elevated Installation >35' To 40', Add</i>	15.67	
			<i>For Elevated Installation >40', Add</i>	17.23	
26 05 33	13-0648	EA	3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling	56.53	15.66
			<i>For Work In Restricted Working Space, Add</i>	11.75	
			<i>For Elevated Installation >10' To 15', Add</i>	3.92	
			<i>For Elevated Installation >15' To 20', Add</i>	7.83	
			<i>For Elevated Installation >20' To 25', Add</i>	9.79	
			<i>For Elevated Installation >25' To 30', Add</i>	13.71	
			<i>For Elevated Installation >30' To 35', Add</i>	15.66	
			<i>For Elevated Installation >35' To 40', Add</i>	19.58	
			<i>For Elevated Installation >40', Add</i>	21.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0649 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	72.50	20.14
For Work In Restricted Working Space, Add	15.11	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.18	
For Elevated Installation >40', Add	27.69	
26 05 33 13-0650 Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0594)	8.33	2.69
26 05 33 13-0651 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	8.33	2.69
For Work In Restricted Working Space, Add	2.02	
For Elevated Installation >10' To 15', Add	0.67	
For Elevated Installation >15' To 20', Add	1.34	
For Elevated Installation >20' To 25', Add	1.68	
For Elevated Installation >25' To 30', Add	2.35	
For Elevated Installation >30' To 35', Add	2.69	
For Elevated Installation >35' To 40', Add	3.36	
For Elevated Installation >40', Add	3.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.02	
26 05 33 13-0652 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	9.60	3.13
For Work In Restricted Working Space, Add	2.35	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.57	
For Elevated Installation >20' To 25', Add	1.96	
For Elevated Installation >25' To 30', Add	2.74	
For Elevated Installation >30' To 35', Add	3.13	
For Elevated Installation >35' To 40', Add	3.92	
For Elevated Installation >40', Add	4.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.35	
26 05 33 13-0653 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	14.18	4.48
For Work In Restricted Working Space, Add	3.36	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.24	
For Elevated Installation >20' To 25', Add	2.80	
For Elevated Installation >25' To 30', Add	3.92	
For Elevated Installation >30' To 35', Add	4.48	
For Elevated Installation >35' To 40', Add	5.60	
For Elevated Installation >40', Add	6.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.36	
26 05 33 13-0654 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	17.94	5.37
For Work In Restricted Working Space, Add	4.03	
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.36	
For Elevated Installation >25' To 30', Add	4.70	
For Elevated Installation >30' To 35', Add	5.37	
For Elevated Installation >35' To 40', Add	6.72	
For Elevated Installation >40', Add	7.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.03	
26 05 33 13-0655 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	22.90	6.26
For Work In Restricted Working Space, Add	4.70	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.13	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.48	
For Elevated Installation >30' To 35', Add	6.26	
For Elevated Installation >35' To 40', Add	7.83	
For Elevated Installation >40', Add	8.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.70	
26 05 33 13-0656 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	27.91	7.61
For Work In Restricted Working Space, Add	5.71	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.80	
For Elevated Installation >20' To 25', Add	4.76	
For Elevated Installation >25' To 30', Add	6.66	
For Elevated Installation >30' To 35', Add	7.61	
For Elevated Installation >35' To 40', Add	9.51	
For Elevated Installation >40', Add	10.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.71	
26 05 33 13-0657 EA 2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	37.57	10.29
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.44	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.30	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0658	EA	3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	47.40	12.53
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.83	
			<i>For Elevated Installation >25' To 30', Add</i>	10.97	
			<i>For Elevated Installation >30' To 35', Add</i>	12.53	
			<i>For Elevated Installation >35' To 40', Add</i>	15.67	
			<i>For Elevated Installation >40', Add</i>	17.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-0659	EA	3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	62.41	15.66
			<i>For Work In Restricted Working Space, Add</i>	11.75	
			<i>For Elevated Installation >10' To 15', Add</i>	3.92	
			<i>For Elevated Installation >15' To 20', Add</i>	7.83	
			<i>For Elevated Installation >20' To 25', Add</i>	9.79	
			<i>For Elevated Installation >25' To 30', Add</i>	13.71	
			<i>For Elevated Installation >30' To 35', Add</i>	15.66	
			<i>For Elevated Installation >35' To 40', Add</i>	19.58	
			<i>For Elevated Installation >40', Add</i>	21.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.75	
26 05 33	13-0660	EA	4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	76.34	20.14
			<i>For Work In Restricted Working Space, Add</i>	15.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.07	
			<i>For Elevated Installation >20' To 25', Add</i>	12.59	
			<i>For Elevated Installation >25' To 30', Add</i>	17.62	
			<i>For Elevated Installation >30' To 35', Add</i>	20.14	
			<i>For Elevated Installation >35' To 40', Add</i>	25.18	
			<i>For Elevated Installation >40', Add</i>	27.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.11	
26 05 33	13-0661		Electrical Metallic Tubing (EMT) Insulated Bushing <small>(26 05 33 13-0594)</small>		
26 05 33	13-0662	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	7.59	3.02
			<i>For Work In Restricted Working Space, Add</i>	2.25	
			<i>For Elevated Installation >10' To 15', Add</i>	0.75	
			<i>For Elevated Installation >15' To 20', Add</i>	1.50	
			<i>For Elevated Installation >20' To 25', Add</i>	1.88	
			<i>For Elevated Installation >25' To 30', Add</i>	2.63	
			<i>For Elevated Installation >30' To 35', Add</i>	3.00	
			<i>For Elevated Installation >35' To 40', Add</i>	3.75	
			<i>For Elevated Installation >40', Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.25	
26 05 33	13-0663	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	8.31	3.24
			<i>For Work In Restricted Working Space, Add</i>	2.45	
			<i>For Elevated Installation >10' To 15', Add</i>	0.82	
			<i>For Elevated Installation >15' To 20', Add</i>	1.63	
			<i>For Elevated Installation >20' To 25', Add</i>	2.04	
			<i>For Elevated Installation >25' To 30', Add</i>	2.86	
			<i>For Elevated Installation >30' To 35', Add</i>	3.27	
			<i>For Elevated Installation >35' To 40', Add</i>	4.09	
			<i>For Elevated Installation >40', Add</i>	4.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.45	
26 05 33	13-0664	EA	1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	10.41	4.03
			<i>For Work In Restricted Working Space, Add</i>	2.99	
			<i>For Elevated Installation >10' To 15', Add</i>	1.00	
			<i>For Elevated Installation >15' To 20', Add</i>	1.99	
			<i>For Elevated Installation >20' To 25', Add</i>	2.49	
			<i>For Elevated Installation >25' To 30', Add</i>	3.49	
			<i>For Elevated Installation >30' To 35', Add</i>	3.98	
			<i>For Elevated Installation >35' To 40', Add</i>	4.98	
			<i>For Elevated Installation >40', Add</i>	5.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.99	
26 05 33	13-0665	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	13.31	5.15
			<i>For Work In Restricted Working Space, Add</i>	3.83	
			<i>For Elevated Installation >10' To 15', Add</i>	1.28	
			<i>For Elevated Installation >15' To 20', Add</i>	2.55	
			<i>For Elevated Installation >20' To 25', Add</i>	3.19	
			<i>For Elevated Installation >25' To 30', Add</i>	4.47	
			<i>For Elevated Installation >30' To 35', Add</i>	5.10	
			<i>For Elevated Installation >35' To 40', Add</i>	6.38	
			<i>For Elevated Installation >40', Add</i>	7.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.83	
26 05 33	13-0666	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	15.75	5.93
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.98	
			<i>For Elevated Installation >20' To 25', Add</i>	3.72	
			<i>For Elevated Installation >25' To 30', Add</i>	5.21	
			<i>For Elevated Installation >30' To 35', Add</i>	5.95	
			<i>For Elevated Installation >35' To 40', Add</i>	7.44	
			<i>For Elevated Installation >40', Add</i>	8.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0667 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	19.35	7.16
For Work In Restricted Working Space, Add	5.37	
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.48	
For Elevated Installation >25' To 30', Add	6.27	
For Elevated Installation >30' To 35', Add	7.16	
For Elevated Installation >35' To 40', Add	8.95	
For Elevated Installation >40', Add	9.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.37	
26 05 33 13-0668 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	27.97	9.96
For Work In Restricted Working Space, Add	7.45	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.97	
For Elevated Installation >20' To 25', Add	6.21	
For Elevated Installation >25' To 30', Add	8.69	
For Elevated Installation >30' To 35', Add	9.93	
For Elevated Installation >35' To 40', Add	12.42	
For Elevated Installation >40', Add	13.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.45	
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	37.10	13.20
For Work In Restricted Working Space, Add	9.93	
For Elevated Installation >10' To 15', Add	3.31	
For Elevated Installation >15' To 20', Add	6.62	
For Elevated Installation >20' To 25', Add	8.28	
For Elevated Installation >25' To 30', Add	11.59	
For Elevated Installation >30' To 35', Add	13.24	
For Elevated Installation >35' To 40', Add	16.56	
For Elevated Installation >40', Add	18.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.93	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	47.55	17.00
For Work In Restricted Working Space, Add	12.79	
For Elevated Installation >10' To 15', Add	4.26	
For Elevated Installation >15' To 20', Add	8.53	
For Elevated Installation >20' To 25', Add	10.66	
For Elevated Installation >25' To 30', Add	14.92	
For Elevated Installation >30' To 35', Add	17.05	
For Elevated Installation >35' To 40', Add	21.32	
For Elevated Installation >40', Add	23.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.79	
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	61.42	22.37
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0672 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
<small>05 33 13-0594)</small>		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	5.80	2.24
For Work In Restricted Working Space, Add	1.68	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.12	
For Elevated Installation >20' To 25', Add	1.40	
For Elevated Installation >25' To 30', Add	1.96	
For Elevated Installation >30' To 35', Add	2.24	
For Elevated Installation >35' To 40', Add	2.80	
For Elevated Installation >40', Add	3.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.68	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.06	2.69
For Work In Restricted Working Space, Add	2.02	
For Elevated Installation >10' To 15', Add	0.67	
For Elevated Installation >15' To 20', Add	1.34	
For Elevated Installation >20' To 25', Add	1.68	
For Elevated Installation >25' To 30', Add	2.35	
For Elevated Installation >30' To 35', Add	2.69	
For Elevated Installation >35' To 40', Add	3.36	
For Elevated Installation >40', Add	3.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.02	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	8.43	3.13
For Work In Restricted Working Space, Add	2.35	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.57	
For Elevated Installation >20' To 25', Add	1.96	
For Elevated Installation >25' To 30', Add	2.74	
For Elevated Installation >30' To 35', Add	3.13	
For Elevated Installation >35' To 40', Add	3.92	
For Elevated Installation >40', Add	4.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.35	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0676	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	12.29	4.48
			<i>For Work In Restricted Working Space, Add</i>	3.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.12	
			<i>For Elevated Installation >15' To 20', Add</i>	2.24	
			<i>For Elevated Installation >20' To 25', Add</i>	2.80	
			<i>For Elevated Installation >25' To 30', Add</i>	3.92	
			<i>For Elevated Installation >30' To 35', Add</i>	4.48	
			<i>For Elevated Installation >35' To 40', Add</i>	5.60	
			<i>For Elevated Installation >40', Add</i>	6.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.36	
26 05 33	13-0677	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	15.03	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.69	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.72	
			<i>For Elevated Installation >40', Add</i>	7.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33	13-0678	EA	2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	19.15	6.72
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.36	
			<i>For Elevated Installation >20' To 25', Add</i>	4.20	
			<i>For Elevated Installation >25' To 30', Add</i>	5.87	
			<i>For Elevated Installation >30' To 35', Add</i>	6.71	
			<i>For Elevated Installation >35' To 40', Add</i>	8.39	
			<i>For Elevated Installation >40', Add</i>	9.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0679	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	28.97	8.95
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.47	
			<i>For Elevated Installation >20' To 25', Add</i>	5.59	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.71	
26 05 33	13-0680	EA	3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	36.05	11.19
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0681	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	42.64	13.43
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33	13-0682	EA	4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	49.66	15.66
			<i>For Work In Restricted Working Space, Add</i>	11.75	
			<i>For Elevated Installation >10' To 15', Add</i>	3.92	
			<i>For Elevated Installation >15' To 20', Add</i>	7.83	
			<i>For Elevated Installation >20' To 25', Add</i>	9.79	
			<i>For Elevated Installation >25' To 30', Add</i>	13.71	
			<i>For Elevated Installation >30' To 35', Add</i>	15.66	
			<i>For Elevated Installation >35' To 40', Add</i>	19.58	
			<i>For Elevated Installation >40', Add</i>	21.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.75	
26 05 33	13-0683		Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw <small>(26 05 33 13-0594)</small>		
26 05 33	13-0684	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	7.85	3.02
			<i>For Work In Restricted Working Space, Add</i>	2.25	
			<i>For Elevated Installation >10' To 15', Add</i>	0.75	
			<i>For Elevated Installation >15' To 20', Add</i>	1.50	
			<i>For Elevated Installation >20' To 25', Add</i>	1.88	
			<i>For Elevated Installation >25' To 30', Add</i>	2.63	
			<i>For Elevated Installation >30' To 35', Add</i>	3.00	
			<i>For Elevated Installation >35' To 40', Add</i>	3.75	
			<i>For Elevated Installation >40', Add</i>	4.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0685 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.73	3.24
<i>For Work In Restricted Working Space, Add</i>	2.45	
<i>For Elevated Installation >10' To 15', Add</i>	0.82	
<i>For Elevated Installation >15' To 20', Add</i>	1.63	
<i>For Elevated Installation >20' To 25', Add</i>	2.04	
<i>For Elevated Installation >25' To 30', Add</i>	2.86	
<i>For Elevated Installation >30' To 35', Add</i>	3.27	
<i>For Elevated Installation >35' To 40', Add</i>	4.09	
<i>For Elevated Installation >40', Add</i>	4.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.45	
26 05 33 13-0686 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	10.96	4.03
<i>For Work In Restricted Working Space, Add</i>	2.99	
<i>For Elevated Installation >10' To 15', Add</i>	1.00	
<i>For Elevated Installation >15' To 20', Add</i>	1.99	
<i>For Elevated Installation >20' To 25', Add</i>	2.49	
<i>For Elevated Installation >25' To 30', Add</i>	3.49	
<i>For Elevated Installation >30' To 35', Add</i>	3.98	
<i>For Elevated Installation >35' To 40', Add</i>	4.98	
<i>For Elevated Installation >40', Add</i>	5.48	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.99	
26 05 33 13-0687 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	14.43	5.15
<i>For Work In Restricted Working Space, Add</i>	3.83	
<i>For Elevated Installation >10' To 15', Add</i>	1.28	
<i>For Elevated Installation >15' To 20', Add</i>	2.55	
<i>For Elevated Installation >20' To 25', Add</i>	3.19	
<i>For Elevated Installation >25' To 30', Add</i>	4.47	
<i>For Elevated Installation >30' To 35', Add</i>	5.10	
<i>For Elevated Installation >35' To 40', Add</i>	6.38	
<i>For Elevated Installation >40', Add</i>	7.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.83	
26 05 33 13-0688 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	17.10	5.93
<i>For Work In Restricted Working Space, Add</i>	4.46	
<i>For Elevated Installation >10' To 15', Add</i>	1.49	
<i>For Elevated Installation >15' To 20', Add</i>	2.98	
<i>For Elevated Installation >20' To 25', Add</i>	3.72	
<i>For Elevated Installation >25' To 30', Add</i>	5.21	
<i>For Elevated Installation >30' To 35', Add</i>	5.95	
<i>For Elevated Installation >35' To 40', Add</i>	7.44	
<i>For Elevated Installation >40', Add</i>	8.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0689 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	20.95	7.16
<i>For Work In Restricted Working Space, Add</i>	5.37	
<i>For Elevated Installation >10' To 15', Add</i>	1.79	
<i>For Elevated Installation >15' To 20', Add</i>	3.58	
<i>For Elevated Installation >20' To 25', Add</i>	4.48	
<i>For Elevated Installation >25' To 30', Add</i>	6.27	
<i>For Elevated Installation >30' To 35', Add</i>	7.16	
<i>For Elevated Installation >35' To 40', Add</i>	8.95	
<i>For Elevated Installation >40', Add</i>	9.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.37	
26 05 33 13-0690 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	34.82	9.96
<i>For Work In Restricted Working Space, Add</i>	7.45	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.97	
<i>For Elevated Installation >20' To 25', Add</i>	6.21	
<i>For Elevated Installation >25' To 30', Add</i>	8.69	
<i>For Elevated Installation >30' To 35', Add</i>	9.93	
<i>For Elevated Installation >35' To 40', Add</i>	12.42	
<i>For Elevated Installation >40', Add</i>	13.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.45	
26 05 33 13-0691 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	45.06	13.20
<i>For Work In Restricted Working Space, Add</i>	9.93	
<i>For Elevated Installation >10' To 15', Add</i>	3.31	
<i>For Elevated Installation >15' To 20', Add</i>	6.62	
<i>For Elevated Installation >20' To 25', Add</i>	8.28	
<i>For Elevated Installation >25' To 30', Add</i>	11.59	
<i>For Elevated Installation >30' To 35', Add</i>	13.24	
<i>For Elevated Installation >35' To 40', Add</i>	16.56	
<i>For Elevated Installation >40', Add</i>	18.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.93	
26 05 33 13-0692 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	57.57	17.00
<i>For Work In Restricted Working Space, Add</i>	12.79	
<i>For Elevated Installation >10' To 15', Add</i>	4.26	
<i>For Elevated Installation >15' To 20', Add</i>	8.53	
<i>For Elevated Installation >20' To 25', Add</i>	10.66	
<i>For Elevated Installation >25' To 30', Add</i>	14.92	
<i>For Elevated Installation >30' To 35', Add</i>	17.05	
<i>For Elevated Installation >35' To 40', Add</i>	21.32	
<i>For Elevated Installation >40', Add</i>	23.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.79	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0693	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	72.38	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	
26 05 33	13-0694		Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33)</small>		
			<small>13-0594</small>		
26 05 33	13-0695	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.06	2.69
			<i>For Work In Restricted Working Space, Add</i>	2.02	
			<i>For Elevated Installation >10' To 15', Add</i>	0.67	
			<i>For Elevated Installation >15' To 20', Add</i>	1.34	
			<i>For Elevated Installation >20' To 25', Add</i>	1.68	
			<i>For Elevated Installation >25' To 30', Add</i>	2.35	
			<i>For Elevated Installation >30' To 35', Add</i>	2.69	
			<i>For Elevated Installation >35' To 40', Add</i>	3.36	
			<i>For Elevated Installation >40', Add</i>	3.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.02	
26 05 33	13-0696	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	8.35	3.13
			<i>For Work In Restricted Working Space, Add</i>	2.35	
			<i>For Elevated Installation >10' To 15', Add</i>	0.78	
			<i>For Elevated Installation >15' To 20', Add</i>	1.57	
			<i>For Elevated Installation >20' To 25', Add</i>	1.96	
			<i>For Elevated Installation >25' To 30', Add</i>	2.74	
			<i>For Elevated Installation >30' To 35', Add</i>	3.13	
			<i>For Elevated Installation >35' To 40', Add</i>	3.92	
			<i>For Elevated Installation >40', Add</i>	4.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.35	
26 05 33	13-0697	EA	1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	11.93	4.48
			<i>For Work In Restricted Working Space, Add</i>	3.36	
			<i>For Elevated Installation >10' To 15', Add</i>	1.12	
			<i>For Elevated Installation >15' To 20', Add</i>	2.24	
			<i>For Elevated Installation >20' To 25', Add</i>	2.80	
			<i>For Elevated Installation >25' To 30', Add</i>	3.92	
			<i>For Elevated Installation >30' To 35', Add</i>	4.48	
			<i>For Elevated Installation >35' To 40', Add</i>	5.60	
			<i>For Elevated Installation >40', Add</i>	6.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.36	
26 05 33	13-0698	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	14.82	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.69	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.72	
			<i>For Elevated Installation >40', Add</i>	7.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33	13-0699	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	17.62	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.13	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.48	
			<i>For Elevated Installation >30' To 35', Add</i>	6.26	
			<i>For Elevated Installation >35' To 40', Add</i>	7.83	
			<i>For Elevated Installation >40', Add</i>	8.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33	13-0700	EA	2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	22.98	8.06
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Elevated Installation >10' To 15', Add</i>	2.01	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Elevated Installation >20' To 25', Add</i>	5.04	
			<i>For Elevated Installation >25' To 30', Add</i>	7.05	
			<i>For Elevated Installation >30' To 35', Add</i>	8.06	
			<i>For Elevated Installation >35' To 40', Add</i>	10.07	
			<i>For Elevated Installation >40', Add</i>	11.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 33	13-0701	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	35.39	10.74
			<i>For Work In Restricted Working Space, Add</i>	8.06	
			<i>For Elevated Installation >10' To 15', Add</i>	2.69	
			<i>For Elevated Installation >15' To 20', Add</i>	5.37	
			<i>For Elevated Installation >20' To 25', Add</i>	6.71	
			<i>For Elevated Installation >25' To 30', Add</i>	9.40	
			<i>For Elevated Installation >30' To 35', Add</i>	10.74	
			<i>For Elevated Installation >35' To 40', Add</i>	13.43	
			<i>For Elevated Installation >40', Add</i>	14.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0702 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	44.75	13.43
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0703 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	56.38	15.66
For Work In Restricted Working Space, Add	11.75	
For Elevated Installation >10' To 15', Add	3.92	
For Elevated Installation >15' To 20', Add	7.83	
For Elevated Installation >20' To 25', Add	9.79	
For Elevated Installation >25' To 30', Add	13.71	
For Elevated Installation >30' To 35', Add	15.66	
For Elevated Installation >35' To 40', Add	19.58	
For Elevated Installation >40', Add	21.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.75	
26 05 33 13-0704 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	63.44	17.90
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.67	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 33 13-0705 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors <small>(26 05 33 13-0594)</small>		
26 05 33 13-0706 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	8.09	3.02
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	
26 05 33 13-0707 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	8.98	3.24
For Work In Restricted Working Space, Add	2.45	
For Elevated Installation >10' To 15', Add	0.82	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.04	
For Elevated Installation >25' To 30', Add	2.86	
For Elevated Installation >30' To 35', Add	3.27	
For Elevated Installation >35' To 40', Add	4.09	
For Elevated Installation >40', Add	4.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.45	
26 05 33 13-0708 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	11.17	4.03
For Work In Restricted Working Space, Add	2.99	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	1.99	
For Elevated Installation >20' To 25', Add	2.49	
For Elevated Installation >25' To 30', Add	3.49	
For Elevated Installation >30' To 35', Add	3.98	
For Elevated Installation >35' To 40', Add	4.98	
For Elevated Installation >40', Add	5.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.99	
26 05 33 13-0709 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	15.02	5.15
For Work In Restricted Working Space, Add	3.83	
For Elevated Installation >10' To 15', Add	1.28	
For Elevated Installation >15' To 20', Add	2.55	
For Elevated Installation >20' To 25', Add	3.19	
For Elevated Installation >25' To 30', Add	4.47	
For Elevated Installation >30' To 35', Add	5.10	
For Elevated Installation >35' To 40', Add	6.38	
For Elevated Installation >40', Add	7.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.83	
26 05 33 13-0710 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	18.08	5.93
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.98	
For Elevated Installation >20' To 25', Add	3.72	
For Elevated Installation >25' To 30', Add	5.21	
For Elevated Installation >30' To 35', Add	5.95	
For Elevated Installation >35' To 40', Add	7.44	
For Elevated Installation >40', Add	8.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0711	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	22.37	7.16
			<i>For Work In Restricted Working Space, Add</i>	5.37	
			<i>For Elevated Installation >10' To 15', Add</i>	1.79	
			<i>For Elevated Installation >15' To 20', Add</i>	3.58	
			<i>For Elevated Installation >20' To 25', Add</i>	4.48	
			<i>For Elevated Installation >25' To 30', Add</i>	6.27	
			<i>For Elevated Installation >30' To 35', Add</i>	7.16	
			<i>For Elevated Installation >35' To 40', Add</i>	8.95	
			<i>For Elevated Installation >40', Add</i>	9.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.37	
26 05 33	13-0712	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	39.98	9.96
			<i>For Work In Restricted Working Space, Add</i>	7.45	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.97	
			<i>For Elevated Installation >20' To 25', Add</i>	6.21	
			<i>For Elevated Installation >25' To 30', Add</i>	8.69	
			<i>For Elevated Installation >30' To 35', Add</i>	9.93	
			<i>For Elevated Installation >35' To 40', Add</i>	12.42	
			<i>For Elevated Installation >40', Add</i>	13.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.45	
26 05 33	13-0713	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	53.72	13.20
			<i>For Work In Restricted Working Space, Add</i>	9.93	
			<i>For Elevated Installation >10' To 15', Add</i>	3.31	
			<i>For Elevated Installation >15' To 20', Add</i>	6.62	
			<i>For Elevated Installation >20' To 25', Add</i>	8.28	
			<i>For Elevated Installation >25' To 30', Add</i>	11.59	
			<i>For Elevated Installation >30' To 35', Add</i>	13.24	
			<i>For Elevated Installation >35' To 40', Add</i>	16.56	
			<i>For Elevated Installation >40', Add</i>	18.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.93	
26 05 33	13-0714	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	72.75	17.00
			<i>For Work In Restricted Working Space, Add</i>	12.79	
			<i>For Elevated Installation >10' To 15', Add</i>	4.26	
			<i>For Elevated Installation >15' To 20', Add</i>	8.53	
			<i>For Elevated Installation >20' To 25', Add</i>	10.66	
			<i>For Elevated Installation >25' To 30', Add</i>	14.92	
			<i>For Elevated Installation >30' To 35', Add</i>	17.05	
			<i>For Elevated Installation >35' To 40', Add</i>	21.32	
			<i>For Elevated Installation >40', Add</i>	23.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.79	
26 05 33	13-0715	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	91.17	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	
26 05 33	13-0716		Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0594)		
			Note: Excludes jumper.		
26 05 33	13-0717	EA	1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	61.13	14.88
			<i>For Work In Restricted Working Space, Add</i>	11.17	
			<i>For Elevated Installation >10' To 15', Add</i>	3.72	
			<i>For Elevated Installation >15' To 20', Add</i>	7.45	
			<i>For Elevated Installation >20' To 25', Add</i>	9.31	
			<i>For Elevated Installation >25' To 30', Add</i>	13.03	
			<i>For Elevated Installation >30' To 35', Add</i>	14.90	
			<i>For Elevated Installation >35' To 40', Add</i>	18.62	
			<i>For Elevated Installation >40', Add</i>	20.48	
26 05 33	13-0718	EA	3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	73.64	18.02
			<i>For Work In Restricted Working Space, Add</i>	13.54	
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.03	
			<i>For Elevated Installation >20' To 25', Add</i>	11.29	
			<i>For Elevated Installation >25' To 30', Add</i>	15.80	
			<i>For Elevated Installation >30' To 35', Add</i>	18.06	
			<i>For Elevated Installation >35' To 40', Add</i>	22.57	
			<i>For Elevated Installation >40', Add</i>	24.83	
26 05 33	13-0719	EA	1" Electrical Metallic Tubing (EMT) Expansion Coupling	90.45	22.61
			<i>For Work In Restricted Working Space, Add</i>	16.93	
			<i>For Elevated Installation >10' To 15', Add</i>	5.64	
			<i>For Elevated Installation >15' To 20', Add</i>	11.28	
			<i>For Elevated Installation >20' To 25', Add</i>	14.11	
			<i>For Elevated Installation >25' To 30', Add</i>	19.75	
			<i>For Elevated Installation >30' To 35', Add</i>	22.57	
			<i>For Elevated Installation >35' To 40', Add</i>	28.21	
			<i>For Elevated Installation >40', Add</i>	31.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0720 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	117.08	27.74
<i>For Work In Restricted Working Space, Add</i>	20.82	
<i>For Elevated Installation >10' To 15', Add</i>	6.94	
<i>For Elevated Installation >15' To 20', Add</i>	13.88	
<i>For Elevated Installation >20' To 25', Add</i>	17.35	
<i>For Elevated Installation >25' To 30', Add</i>	24.29	
<i>For Elevated Installation >30' To 35', Add</i>	27.76	
<i>For Elevated Installation >35' To 40', Add</i>	34.71	
<i>For Elevated Installation >40', Add</i>	38.18	
26 05 33 13-0721 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	145.64	32.56
<i>For Work In Restricted Working Space, Add</i>	24.42	
<i>For Elevated Installation >10' To 15', Add</i>	8.14	
<i>For Elevated Installation >15' To 20', Add</i>	16.28	
<i>For Elevated Installation >20' To 25', Add</i>	20.35	
<i>For Elevated Installation >25' To 30', Add</i>	28.49	
<i>For Elevated Installation >30' To 35', Add</i>	32.56	
<i>For Elevated Installation >35' To 40', Add</i>	40.70	
<i>For Elevated Installation >40', Add</i>	44.77	
26 05 33 13-0722 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	182.65	39.61
<i>For Work In Restricted Working Space, Add</i>	29.73	
<i>For Elevated Installation >10' To 15', Add</i>	9.91	
<i>For Elevated Installation >15' To 20', Add</i>	19.82	
<i>For Elevated Installation >20' To 25', Add</i>	24.78	
<i>For Elevated Installation >25' To 30', Add</i>	34.69	
<i>For Elevated Installation >30' To 35', Add</i>	39.64	
<i>For Elevated Installation >35' To 40', Add</i>	49.56	
<i>For Elevated Installation >40', Add</i>	54.51	
26 05 33 13-0723 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	350.90	50.91
<i>For Work In Restricted Working Space, Add</i>	38.19	
<i>For Elevated Installation >10' To 15', Add</i>	12.73	
<i>For Elevated Installation >15' To 20', Add</i>	25.46	
<i>For Elevated Installation >20' To 25', Add</i>	31.83	
<i>For Elevated Installation >25' To 30', Add</i>	44.56	
<i>For Elevated Installation >30' To 35', Add</i>	50.92	
<i>For Elevated Installation >35' To 40', Add</i>	63.65	
<i>For Elevated Installation >40', Add</i>	70.02	
26 05 33 13-0724 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling.....	429.43	59.52
<i>For Work In Restricted Working Space, Add</i>	44.66	
<i>For Elevated Installation >10' To 15', Add</i>	14.89	
<i>For Elevated Installation >15' To 20', Add</i>	29.77	
<i>For Elevated Installation >20' To 25', Add</i>	37.21	
<i>For Elevated Installation >25' To 30', Add</i>	52.10	
<i>For Elevated Installation >30' To 35', Add</i>	59.54	
<i>For Elevated Installation >35' To 40', Add</i>	74.43	
<i>For Elevated Installation >40', Add</i>	81.87	
26 05 33 13-0725 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	528.15	64.89
<i>For Work In Restricted Working Space, Add</i>	48.68	
<i>For Elevated Installation >10' To 15', Add</i>	16.23	
<i>For Elevated Installation >15' To 20', Add</i>	32.46	
<i>For Elevated Installation >20' To 25', Add</i>	40.57	
<i>For Elevated Installation >25' To 30', Add</i>	56.80	
<i>For Elevated Installation >30' To 35', Add</i>	64.91	
<i>For Elevated Installation >35' To 40', Add</i>	81.14	
<i>For Elevated Installation >40', Add</i>	89.25	
26 05 33 13-0726 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	571.53	71.61
<i>For Work In Restricted Working Space, Add</i>	53.72	
<i>For Elevated Installation >10' To 15', Add</i>	17.91	
<i>For Elevated Installation >15' To 20', Add</i>	35.82	
<i>For Elevated Installation >20' To 25', Add</i>	44.77	
<i>For Elevated Installation >25' To 30', Add</i>	62.68	
<i>For Elevated Installation >30' To 35', Add</i>	71.63	
<i>For Elevated Installation >35' To 40', Add</i>	89.54	
<i>For Elevated Installation >40', Add</i>	98.49	
26 05 33 13-0727 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
<small>(26 05 33 13-0594)</small>		
26 05 33 13-0728 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	11.38	4.03
<i>For Work In Restricted Working Space, Add</i>	2.98	
<i>For Elevated Installation >10' To 15', Add</i>	0.99	
<i>For Elevated Installation >15' To 20', Add</i>	1.99	
<i>For Elevated Installation >20' To 25', Add</i>	2.49	
<i>For Elevated Installation >25' To 30', Add</i>	3.48	
<i>For Elevated Installation >30' To 35', Add</i>	3.98	
<i>For Elevated Installation >35' To 40', Add</i>	4.97	
<i>For Elevated Installation >40', Add</i>	5.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.98	
26 05 33 13-0729 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	12.16	4.03
<i>For Work In Restricted Working Space, Add</i>	2.98	
<i>For Elevated Installation >10' To 15', Add</i>	0.99	
<i>For Elevated Installation >15' To 20', Add</i>	1.99	
<i>For Elevated Installation >20' To 25', Add</i>	2.49	
<i>For Elevated Installation >25' To 30', Add</i>	3.48	
<i>For Elevated Installation >30' To 35', Add</i>	3.98	
<i>For Elevated Installation >35' To 40', Add</i>	4.97	
<i>For Elevated Installation >40', Add</i>	5.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.98	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0730	EA	3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	13.59	4.37
			<i>For Work In Restricted Working Space, Add</i>	3.31	
			<i>For Elevated Installation >10' To 15', Add</i>	1.10	
			<i>For Elevated Installation >15' To 20', Add</i>	2.21	
			<i>For Elevated Installation >20' To 25', Add</i>	2.76	
			<i>For Elevated Installation >25' To 30', Add</i>	3.86	
			<i>For Elevated Installation >30' To 35', Add</i>	4.42	
			<i>For Elevated Installation >35' To 40', Add</i>	5.52	
			<i>For Elevated Installation >40', Add</i>	6.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.31	
26 05 33	13-0731	EA	1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	15.84	5.04
			<i>For Work In Restricted Working Space, Add</i>	3.77	
			<i>For Elevated Installation >10' To 15', Add</i>	1.26	
			<i>For Elevated Installation >15' To 20', Add</i>	2.51	
			<i>For Elevated Installation >20' To 25', Add</i>	3.14	
			<i>For Elevated Installation >25' To 30', Add</i>	4.40	
			<i>For Elevated Installation >30' To 35', Add</i>	5.03	
			<i>For Elevated Installation >35' To 40', Add</i>	6.29	
			<i>For Elevated Installation >40', Add</i>	6.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.77	
26 05 33	13-0732	EA	1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	22.62	6.04
			<i>For Work In Restricted Working Space, Add</i>	4.56	
			<i>For Elevated Installation >10' To 15', Add</i>	1.52	
			<i>For Elevated Installation >15' To 20', Add</i>	3.04	
			<i>For Elevated Installation >20' To 25', Add</i>	3.80	
			<i>For Elevated Installation >25' To 30', Add</i>	5.32	
			<i>For Elevated Installation >30' To 35', Add</i>	6.08	
			<i>For Elevated Installation >35' To 40', Add</i>	7.60	
			<i>For Elevated Installation >40', Add</i>	8.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.56	
26 05 33	13-0733	EA	1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	27.69	6.94
			<i>For Work In Restricted Working Space, Add</i>	5.21	
			<i>For Elevated Installation >10' To 15', Add</i>	1.74	
			<i>For Elevated Installation >15' To 20', Add</i>	3.47	
			<i>For Elevated Installation >20' To 25', Add</i>	4.34	
			<i>For Elevated Installation >25' To 30', Add</i>	6.08	
			<i>For Elevated Installation >30' To 35', Add</i>	6.95	
			<i>For Elevated Installation >35' To 40', Add</i>	8.69	
			<i>For Elevated Installation >40', Add</i>	9.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.21	
26 05 33	13-0734	EA	2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	36.09	8.72
			<i>For Work In Restricted Working Space, Add</i>	6.51	
			<i>For Elevated Installation >10' To 15', Add</i>	2.17	
			<i>For Elevated Installation >15' To 20', Add</i>	4.34	
			<i>For Elevated Installation >20' To 25', Add</i>	5.43	
			<i>For Elevated Installation >25' To 30', Add</i>	7.60	
			<i>For Elevated Installation >30' To 35', Add</i>	8.68	
			<i>For Elevated Installation >35' To 40', Add</i>	10.85	
			<i>For Elevated Installation >40', Add</i>	11.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 05 33	13-0735		Electrical Metallic Tubing (EMT) Pulling Elbows <small>(26 05 33 13-0594)</small>		
26 05 33	13-0736	EA	1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	23.88	10.07
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Elevated Installation >15' To 20', Add</i>	4.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 33	13-0737	EA	3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	27.85	11.74
			<i>For Work In Restricted Working Space, Add</i>	7.05	
			<i>For Elevated Installation >15' To 20', Add</i>	4.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.05	
26 05 33	13-0738	EA	1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	34.61	13.43
			<i>For Work In Restricted Working Space, Add</i>	8.06	
			<i>For Elevated Installation >15' To 20', Add</i>	5.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.06	
26 05 33	13-0739	EA	1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	44.25	16.78
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33	13-0740		Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0059)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-0741		Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0740)</small>		
			Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0742 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	8.40	2.24
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.19	
For >1,000, Deduct	-0.26	
For Installation In Metal Stud Wall, Add	0.58	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.87	
For Work In Restricted Working Space, Add	1.75	
For Elevated Installation >10' To 15', Add	0.58	
For Elevated Installation >15' To 20', Add	1.16	
For Elevated Installation >20' To 25', Add	1.46	
For Elevated Installation >25' To 30', Add	2.04	
For Elevated Installation >30' To 35', Add	2.33	
For Elevated Installation >35' To 40', Add	2.91	
For Elevated Installation >40', Add	3.20	
26 05 33 13-0743 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	10.02	2.46
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.31	
For Installation In Metal Stud Wall, Add	0.69	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.74	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.74	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.78	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.82	
26 05 33 13-0744 LF 1" Intermediate Metal Conduit (IMC) Conduit	13.47	2.69
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.48	
For Installation In Metal Stud Wall, Add	0.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.18	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.31	
For Work In Restricted Working Space, Add	2.62	
For Elevated Installation >10' To 15', Add	0.87	
For Elevated Installation >15' To 20', Add	1.74	
For Elevated Installation >20' To 25', Add	2.18	
For Elevated Installation >25' To 30', Add	3.05	
For Elevated Installation >30' To 35', Add	3.49	
For Elevated Installation >35' To 40', Add	4.36	
For Elevated Installation >40', Add	4.80	
26 05 33 13-0745 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	15.65	5.37
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.60	
For Installation In Metal Stud Wall, Add	0.96	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.44	
For Work In Restricted Working Space, Add	2.89	
For Elevated Installation >10' To 15', Add	0.96	
For Elevated Installation >15' To 20', Add	1.93	
For Elevated Installation >20' To 25', Add	2.41	
For Elevated Installation >25' To 30', Add	3.37	
For Elevated Installation >30' To 35', Add	3.85	
For Elevated Installation >35' To 40', Add	4.82	
For Elevated Installation >40', Add	5.30	
26 05 33 13-0746 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	17.62	3.58
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.53	
For >1,000, Deduct	-0.71	
For Installation In Metal Stud Wall, Add	1.05	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.58	
For Work In Restricted Working Space, Add	3.16	
For Elevated Installation >10' To 15', Add	1.05	
For Elevated Installation >15' To 20', Add	2.10	
For Elevated Installation >20' To 25', Add	2.63	
For Elevated Installation >25' To 30', Add	3.68	
For Elevated Installation >30' To 35', Add	4.21	
For Elevated Installation >35' To 40', Add	5.26	
For Elevated Installation >40', Add	5.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0747	LF	2" Intermediate Metal Conduit (IMC) Conduit	22.40	4.03
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.96	
			<i>For Installation In Metal Stud Wall, Add</i>	1.28	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.19	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.91	
			<i>For Work In Restricted Working Space, Add</i>	3.83	
			<i>For Elevated Installation >10' To 15', Add</i>	1.28	
			<i>For Elevated Installation >15' To 20', Add</i>	2.55	
			<i>For Elevated Installation >20' To 25', Add</i>	3.19	
			<i>For Elevated Installation >25' To 30', Add</i>	4.47	
			<i>For Elevated Installation >30' To 35', Add</i>	5.10	
			<i>For Elevated Installation >35' To 40', Add</i>	6.38	
			<i>For Elevated Installation >40', Add</i>	7.02	
26 05 33	13-0748	LF	2-1/2" Intermediate Metal Conduit (IMC) Conduit	38.24	5.37
			<i>For >250 To 500, Deduct</i>	-1.07	
			<i>For >500 To 1,000, Deduct</i>	-1.60	
			<i>For >1,000, Deduct</i>	-2.14	
			<i>For Installation In Metal Stud Wall, Add</i>	1.69	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4.22	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.53	
			<i>For Work In Restricted Working Space, Add</i>	5.07	
			<i>For Elevated Installation >10' To 15', Add</i>	1.69	
			<i>For Elevated Installation >15' To 20', Add</i>	3.38	
			<i>For Elevated Installation >20' To 25', Add</i>	4.22	
			<i>For Elevated Installation >25' To 30', Add</i>	5.91	
			<i>For Elevated Installation >30' To 35', Add</i>	6.76	
			<i>For Elevated Installation >35' To 40', Add</i>	8.45	
			<i>For Elevated Installation >40', Add</i>	9.29	
26 05 33	13-0749	LF	3" Intermediate Metal Conduit (IMC) Conduit	48.66	6.72
			<i>For >250 To 500, Deduct</i>	-1.31	
			<i>For >500 To 1,000, Deduct</i>	-1.97	
			<i>For >1,000, Deduct</i>	-2.63	
			<i>For Installation In Metal Stud Wall, Add</i>	2.24	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5.59	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.36	
			<i>For Work In Restricted Working Space, Add</i>	6.71	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.47	
			<i>For Elevated Installation >20' To 25', Add</i>	5.59	
			<i>For Elevated Installation >25' To 30', Add</i>	7.83	
			<i>For Elevated Installation >30' To 35', Add</i>	8.95	
			<i>For Elevated Installation >35' To 40', Add</i>	11.19	
			<i>For Elevated Installation >40', Add</i>	12.30	
26 05 33	13-0750	LF	3-1/2" Intermediate Metal Conduit (IMC) Conduit	56.08	8.06
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500 To 1,000, Deduct</i>	-2.28	
			<i>For >1,000, Deduct</i>	-3.05	
			<i>For Installation In Metal Stud Wall, Add</i>	2.56	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6.41	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.84	
			<i>For Work In Restricted Working Space, Add</i>	7.69	
			<i>For Elevated Installation >10' To 15', Add</i>	2.56	
			<i>For Elevated Installation >15' To 20', Add</i>	5.13	
			<i>For Elevated Installation >20' To 25', Add</i>	6.41	
			<i>For Elevated Installation >25' To 30', Add</i>	8.97	
			<i>For Elevated Installation >30' To 35', Add</i>	10.25	
			<i>For Elevated Installation >35' To 40', Add</i>	12.82	
			<i>For Elevated Installation >40', Add</i>	14.10	
26 05 33	13-0751	LF	4" Intermediate Metal Conduit (IMC) Conduit	65.70	9.40
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.69	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For Installation In Metal Stud Wall, Add</i>	2.99	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	7.47	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	4.48	
			<i>For Work In Restricted Working Space, Add</i>	8.96	
			<i>For Elevated Installation >10' To 15', Add</i>	2.99	
			<i>For Elevated Installation >15' To 20', Add</i>	5.97	
			<i>For Elevated Installation >20' To 25', Add</i>	7.47	
			<i>For Elevated Installation >25' To 30', Add</i>	10.45	
			<i>For Elevated Installation >30' To 35', Add</i>	11.95	
			<i>For Elevated Installation >35' To 40', Add</i>	14.94	
			<i>For Elevated Installation >40', Add</i>	16.43	

26 05 33 13-0752 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0740)
See CSI section 26 05 33 13-2508 for conduit field bending.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0753 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	40.06	11.07
<i>For Work In Restricted Working Space, Add</i>	8.33	
<i>For Elevated Installation >10' To 15', Add</i>	2.78	
<i>For Elevated Installation >15' To 20', Add</i>	5.56	
<i>For Elevated Installation >20' To 25', Add</i>	6.95	
<i>For Elevated Installation >25' To 30', Add</i>	9.72	
<i>For Elevated Installation >30' To 35', Add</i>	11.11	
<i>For Elevated Installation >35' To 40', Add</i>	13.89	
<i>For Elevated Installation >40', Add</i>	15.28	
26 05 33 13-0754 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	48.32	13.76
<i>For Work In Restricted Working Space, Add</i>	10.36	
<i>For Elevated Installation >10' To 15', Add</i>	3.45	
<i>For Elevated Installation >15' To 20', Add</i>	6.91	
<i>For Elevated Installation >20' To 25', Add</i>	8.64	
<i>For Elevated Installation >25' To 30', Add</i>	12.09	
<i>For Elevated Installation >30' To 35', Add</i>	13.82	
<i>For Elevated Installation >35' To 40', Add</i>	17.27	
<i>For Elevated Installation >40', Add</i>	19.00	
26 05 33 13-0755 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	61.71	16.89
<i>For Work In Restricted Working Space, Add</i>	12.64	
<i>For Elevated Installation >10' To 15', Add</i>	4.21	
<i>For Elevated Installation >15' To 20', Add</i>	8.42	
<i>For Elevated Installation >20' To 25', Add</i>	10.53	
<i>For Elevated Installation >25' To 30', Add</i>	14.74	
<i>For Elevated Installation >30' To 35', Add</i>	16.85	
<i>For Elevated Installation >35' To 40', Add</i>	21.06	
<i>For Elevated Installation >40', Add</i>	23.17	
26 05 33 13-0756 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	76.38	19.58
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
26 05 33 13-0757 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	90.87	22.48
<i>For Work In Restricted Working Space, Add</i>	16.84	
<i>For Elevated Installation >10' To 15', Add</i>	5.61	
<i>For Elevated Installation >15' To 20', Add</i>	11.23	
<i>For Elevated Installation >20' To 25', Add</i>	14.03	
<i>For Elevated Installation >25' To 30', Add</i>	19.65	
<i>For Elevated Installation >30' To 35', Add</i>	22.45	
<i>For Elevated Installation >35' To 40', Add</i>	28.07	
<i>For Elevated Installation >40', Add</i>	30.87	
26 05 33 13-0758 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	111.76	24.72
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.61	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.96	
26 05 33 13-0759 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	162.11	30.88
<i>For Work In Restricted Working Space, Add</i>	23.16	
<i>For Elevated Installation >10' To 15', Add</i>	7.72	
<i>For Elevated Installation >15' To 20', Add</i>	15.44	
<i>For Elevated Installation >20' To 25', Add</i>	19.30	
<i>For Elevated Installation >25' To 30', Add</i>	27.02	
<i>For Elevated Installation >30' To 35', Add</i>	30.88	
<i>For Elevated Installation >35' To 40', Add</i>	38.60	
<i>For Elevated Installation >40', Add</i>	42.46	
26 05 33 13-0760 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	235.17	42.07
<i>For Work In Restricted Working Space, Add</i>	31.55	
<i>For Elevated Installation >10' To 15', Add</i>	10.52	
<i>For Elevated Installation >15' To 20', Add</i>	21.03	
<i>For Elevated Installation >20' To 25', Add</i>	26.29	
<i>For Elevated Installation >25' To 30', Add</i>	36.81	
<i>For Elevated Installation >30' To 35', Add</i>	42.07	
<i>For Elevated Installation >35' To 40', Add</i>	52.59	
<i>For Elevated Installation >40', Add</i>	57.84	
26 05 33 13-0761 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	348.11	47.44
<i>For Work In Restricted Working Space, Add</i>	35.59	
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.72	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.45	
<i>For Elevated Installation >35' To 40', Add</i>	59.31	
<i>For Elevated Installation >40', Add</i>	65.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0762	EA	4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	420.59	61.76
			<i>For Work In Restricted Working Space, Add</i>	46.31	
			<i>For Elevated Installation >10' To 15', Add</i>	15.44	
			<i>For Elevated Installation >15' To 20', Add</i>	30.87	
			<i>For Elevated Installation >20' To 25', Add</i>	38.59	
			<i>For Elevated Installation >25' To 30', Add</i>	54.03	
			<i>For Elevated Installation >30' To 35', Add</i>	61.75	
			<i>For Elevated Installation >35' To 40', Add</i>	77.19	
			<i>For Elevated Installation >40', Add</i>	84.90	
26 05 33	13-0763		Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0740)		
26 05 33	13-0764	EA	1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	15.39	5.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33	13-0765	EA	3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	18.23	0.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-0766	EA	1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	23.68	8.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-0767	EA	1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	28.97	10.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33	13-0768	EA	1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	32.58	11.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-0769	EA	2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	42.27	13.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33	13-0770	EA	2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	79.61	22.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	
26 05 33	13-0771	EA	3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	97.14	30.43
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.83	
26 05 33	13-0772	EA	3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	128.68	36.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.19	
26 05 33	13-0773	EA	4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	152.24	42.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.55	
26 05 33	13-0774		Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0740)		
			Note: 3-Piece coupling.		
26 05 33	13-0775	EA	1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	51.39	17.90
			<i>For Work In Restricted Working Space, Add</i>	13.44	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.96	
			<i>For Elevated Installation >20' To 25', Add</i>	11.20	
			<i>For Elevated Installation >25' To 30', Add</i>	15.68	
			<i>For Elevated Installation >30' To 35', Add</i>	17.92	
			<i>For Elevated Installation >35' To 40', Add</i>	22.41	
			<i>For Elevated Installation >40', Add</i>	24.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.44	
26 05 33	13-0776	EA	3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	58.49	20.03
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.01	
			<i>For Elevated Installation >40', Add</i>	27.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	
26 05 33	13-0777	EA	1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	72.06	22.26
			<i>For Work In Restricted Working Space, Add</i>	16.71	
			<i>For Elevated Installation >10' To 15', Add</i>	5.57	
			<i>For Elevated Installation >15' To 20', Add</i>	11.14	
			<i>For Elevated Installation >20' To 25', Add</i>	13.93	
			<i>For Elevated Installation >25' To 30', Add</i>	19.50	
			<i>For Elevated Installation >30' To 35', Add</i>	22.28	
			<i>For Elevated Installation >35' To 40', Add</i>	27.85	
			<i>For Elevated Installation >40', Add</i>	30.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.71	
26 05 33	13-0778	EA	1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	91.06	24.39
			<i>For Work In Restricted Working Space, Add</i>	18.29	
			<i>For Elevated Installation >10' To 15', Add</i>	6.10	
			<i>For Elevated Installation >15' To 20', Add</i>	12.19	
			<i>For Elevated Installation >20' To 25', Add</i>	15.24	
			<i>For Elevated Installation >25' To 30', Add</i>	21.34	
			<i>For Elevated Installation >30' To 35', Add</i>	24.38	
			<i>For Elevated Installation >35' To 40', Add</i>	30.48	
			<i>For Elevated Installation >40', Add</i>	33.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0779 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	104.46	26.63
<i>For Work In Restricted Working Space, Add</i>	20.01	
<i>For Elevated Installation >10' To 15', Add</i>	6.67	
<i>For Elevated Installation >15' To 20', Add</i>	13.34	
<i>For Elevated Installation >20' To 25', Add</i>	16.67	
<i>For Elevated Installation >25' To 30', Add</i>	23.34	
<i>For Elevated Installation >30' To 35', Add</i>	26.68	
<i>For Elevated Installation >35' To 40', Add</i>	33.35	
<i>For Elevated Installation >40', Add</i>	36.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.01	
26 05 33 13-0780 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	147.76	28.87
<i>For Work In Restricted Working Space, Add</i>	21.67	
<i>For Elevated Installation >10' To 15', Add</i>	7.22	
<i>For Elevated Installation >15' To 20', Add</i>	14.44	
<i>For Elevated Installation >20' To 25', Add</i>	18.06	
<i>For Elevated Installation >25' To 30', Add</i>	25.28	
<i>For Elevated Installation >30' To 35', Add</i>	28.89	
<i>For Elevated Installation >35' To 40', Add</i>	36.11	
<i>For Elevated Installation >40', Add</i>	39.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.67	
26 05 33 13-0781 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	251.10	35.81
<i>For Work In Restricted Working Space, Add</i>	26.85	
<i>For Elevated Installation >10' To 15', Add</i>	8.95	
<i>For Elevated Installation >15' To 20', Add</i>	17.90	
<i>For Elevated Installation >20' To 25', Add</i>	22.38	
<i>For Elevated Installation >25' To 30', Add</i>	31.33	
<i>For Elevated Installation >30' To 35', Add</i>	35.80	
<i>For Elevated Installation >35' To 40', Add</i>	44.76	
<i>For Elevated Installation >40', Add</i>	49.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.85	
26 05 33 13-0782 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	358.30	44.76
<i>For Work In Restricted Working Space, Add</i>	33.56	
<i>For Elevated Installation >10' To 15', Add</i>	11.19	
<i>For Elevated Installation >15' To 20', Add</i>	22.38	
<i>For Elevated Installation >20' To 25', Add</i>	27.97	
<i>For Elevated Installation >25' To 30', Add</i>	39.16	
<i>For Elevated Installation >30' To 35', Add</i>	44.75	
<i>For Elevated Installation >35' To 40', Add</i>	55.94	
<i>For Elevated Installation >40', Add</i>	61.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.56	
26 05 33 13-0783 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	530.20	53.70
<i>For Work In Restricted Working Space, Add</i>	40.29	
<i>For Elevated Installation >10' To 15', Add</i>	13.43	
<i>For Elevated Installation >15' To 20', Add</i>	26.86	
<i>For Elevated Installation >20' To 25', Add</i>	33.58	
<i>For Elevated Installation >25' To 30', Add</i>	47.01	
<i>For Elevated Installation >30' To 35', Add</i>	53.72	
<i>For Elevated Installation >35' To 40', Add</i>	67.16	
<i>For Elevated Installation >40', Add</i>	73.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.29	
26 05 33 13-0784 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	614.05	58.18
<i>For Work In Restricted Working Space, Add</i>	43.63	
<i>For Elevated Installation >10' To 15', Add</i>	14.54	
<i>For Elevated Installation >15' To 20', Add</i>	29.09	
<i>For Elevated Installation >20' To 25', Add</i>	36.36	
<i>For Elevated Installation >25' To 30', Add</i>	50.90	
<i>For Elevated Installation >30' To 35', Add</i>	58.18	
<i>For Elevated Installation >35' To 40', Add</i>	72.72	
<i>For Elevated Installation >40', Add</i>	79.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 05 33 13-0785 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0740)</small>		
26 05 33 13-0786 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	29.54	8.95
<i>For Work In Restricted Working Space, Add</i>	6.71	
<i>For Elevated Installation >10' To 15', Add</i>	2.24	
<i>For Elevated Installation >15' To 20', Add</i>	4.47	
<i>For Elevated Installation >20' To 25', Add</i>	5.59	
<i>For Elevated Installation >25' To 30', Add</i>	7.83	
<i>For Elevated Installation >30' To 35', Add</i>	8.95	
<i>For Elevated Installation >35' To 40', Add</i>	11.19	
<i>For Elevated Installation >40', Add</i>	12.30	
26 05 33 13-0787 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	33.09	9.85
<i>For Work In Restricted Working Space, Add</i>	7.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.46	
<i>For Elevated Installation >15' To 20', Add</i>	4.92	
<i>For Elevated Installation >20' To 25', Add</i>	6.15	
<i>For Elevated Installation >25' To 30', Add</i>	8.61	
<i>For Elevated Installation >30' To 35', Add</i>	9.84	
<i>For Elevated Installation >35' To 40', Add</i>	12.31	
<i>For Elevated Installation >40', Add</i>	13.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0788	EA	1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	38.08	11.19
		<i>For Work In Restricted Working Space, Add</i>	8.39	
		<i>For Elevated Installation >10' To 15', Add</i>	2.80	
		<i>For Elevated Installation >15' To 20', Add</i>	5.60	
		<i>For Elevated Installation >20' To 25', Add</i>	7.00	
		<i>For Elevated Installation >25' To 30', Add</i>	9.79	
		<i>For Elevated Installation >30' To 35', Add</i>	11.19	
		<i>For Elevated Installation >35' To 40', Add</i>	13.99	
		<i>For Elevated Installation >40', Add</i>	15.39	
26 05 33 13-0789	EA	1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	43.53	12.09
		<i>For Work In Restricted Working Space, Add</i>	9.06	
		<i>For Elevated Installation >10' To 15', Add</i>	3.02	
		<i>For Elevated Installation >15' To 20', Add</i>	6.04	
		<i>For Elevated Installation >20' To 25', Add</i>	7.55	
		<i>For Elevated Installation >25' To 30', Add</i>	10.57	
		<i>For Elevated Installation >30' To 35', Add</i>	12.08	
		<i>For Elevated Installation >35' To 40', Add</i>	15.10	
		<i>For Elevated Installation >40', Add</i>	16.61	
26 05 33 13-0790	EA	1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	52.15	13.43
		<i>For Work In Restricted Working Space, Add</i>	10.07	
		<i>For Elevated Installation >10' To 15', Add</i>	3.36	
		<i>For Elevated Installation >15' To 20', Add</i>	6.71	
		<i>For Elevated Installation >20' To 25', Add</i>	8.39	
		<i>For Elevated Installation >25' To 30', Add</i>	11.75	
		<i>For Elevated Installation >30' To 35', Add</i>	13.43	
		<i>For Elevated Installation >35' To 40', Add</i>	16.79	
		<i>For Elevated Installation >40', Add</i>	18.46	
26 05 33 13-0791	EA	2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	64.40	14.77
		<i>For Work In Restricted Working Space, Add</i>	11.08	
		<i>For Elevated Installation >10' To 15', Add</i>	3.69	
		<i>For Elevated Installation >15' To 20', Add</i>	7.39	
		<i>For Elevated Installation >20' To 25', Add</i>	9.23	
		<i>For Elevated Installation >25' To 30', Add</i>	12.93	
		<i>For Elevated Installation >30' To 35', Add</i>	14.77	
		<i>For Elevated Installation >35' To 40', Add</i>	18.47	
		<i>For Elevated Installation >40', Add</i>	20.31	
26 05 33 13-0792	EA	2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	88.79	17.90
		<i>For Work In Restricted Working Space, Add</i>	13.43	
		<i>For Elevated Installation >10' To 15', Add</i>	4.48	
		<i>For Elevated Installation >15' To 20', Add</i>	8.95	
		<i>For Elevated Installation >20' To 25', Add</i>	11.19	
		<i>For Elevated Installation >25' To 30', Add</i>	15.67	
		<i>For Elevated Installation >30' To 35', Add</i>	17.90	
		<i>For Elevated Installation >35' To 40', Add</i>	22.38	
		<i>For Elevated Installation >40', Add</i>	24.62	
26 05 33 13-0793	EA	3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	109.67	22.37
		<i>For Work In Restricted Working Space, Add</i>	16.78	
		<i>For Elevated Installation >10' To 15', Add</i>	5.59	
		<i>For Elevated Installation >15' To 20', Add</i>	11.19	
		<i>For Elevated Installation >20' To 25', Add</i>	13.99	
		<i>For Elevated Installation >25' To 30', Add</i>	19.58	
		<i>For Elevated Installation >30' To 35', Add</i>	22.38	
		<i>For Elevated Installation >35' To 40', Add</i>	27.97	
		<i>For Elevated Installation >40', Add</i>	30.77	
26 05 33 13-0794	EA	3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	131.77	26.85
		<i>For Work In Restricted Working Space, Add</i>	20.14	
		<i>For Elevated Installation >10' To 15', Add</i>	6.71	
		<i>For Elevated Installation >15' To 20', Add</i>	13.43	
		<i>For Elevated Installation >20' To 25', Add</i>	16.78	
		<i>For Elevated Installation >25' To 30', Add</i>	23.50	
		<i>For Elevated Installation >30' To 35', Add</i>	26.85	
		<i>For Elevated Installation >35' To 40', Add</i>	33.57	
		<i>For Elevated Installation >40', Add</i>	36.92	
26 05 33 13-0795	EA	4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	149.47	29.09
		<i>For Work In Restricted Working Space, Add</i>	21.82	
		<i>For Elevated Installation >10' To 15', Add</i>	7.27	
		<i>For Elevated Installation >15' To 20', Add</i>	14.54	
		<i>For Elevated Installation >20' To 25', Add</i>	18.18	
		<i>For Elevated Installation >25' To 30', Add</i>	25.45	
		<i>For Elevated Installation >30' To 35', Add</i>	29.09	
		<i>For Elevated Installation >35' To 40', Add</i>	36.36	
		<i>For Elevated Installation >40', Add</i>	40.00	

26 05 33 13-0796 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0740)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0797 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	25.37	8.95
For Work In Restricted Working Space, Add	6.71	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.48	
For Elevated Installation >20' To 25', Add	5.60	
For Elevated Installation >25' To 30', Add	7.83	
For Elevated Installation >30' To 35', Add	8.95	
For Elevated Installation >35' To 40', Add	11.19	
For Elevated Installation >40', Add	12.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 05 33 13-0798 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	32.45	11.19
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.59	
For Elevated Installation >20' To 25', Add	6.99	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-0799 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	40.20	13.43
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-0800 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	48.54	15.66
For Work In Restricted Working Space, Add	11.75	
For Elevated Installation >10' To 15', Add	3.92	
For Elevated Installation >15' To 20', Add	7.83	
For Elevated Installation >20' To 25', Add	9.79	
For Elevated Installation >25' To 30', Add	13.71	
For Elevated Installation >30' To 35', Add	15.67	
For Elevated Installation >35' To 40', Add	19.59	
For Elevated Installation >40', Add	21.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.75	
26 05 33 13-0801 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	56.83	17.90
For Work In Restricted Working Space, Add	13.43	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.95	
For Elevated Installation >20' To 25', Add	11.19	
For Elevated Installation >25' To 30', Add	15.66	
For Elevated Installation >30' To 35', Add	17.90	
For Elevated Installation >35' To 40', Add	22.38	
For Elevated Installation >40', Add	24.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 33 13-0802 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	67.79	20.14
For Work In Restricted Working Space, Add	15.10	
For Elevated Installation >10' To 15', Add	5.03	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.17	
For Elevated Installation >40', Add	27.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.10	
26 05 33 13-0803 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	85.19	22.37
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0804 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	100.92	24.61
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.38	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.61	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0805	EA	3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.78 21.82 7.27 14.54 18.18 25.45 29.09 36.36 40.00 21.82	29.09
26 05 33	13-0806	EA	4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.74 23.49 7.83 15.66 19.58 27.41 31.32 39.16 43.07 23.49	31.33
26 05 33 13-0807 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0740)					
26 05 33	13-0808	EA	1/2" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	174.03 13.43 4.48 8.95 11.19 15.67 17.90 22.38 24.62	17.90
26 05 33	13-0809	EA	3/4" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	192.55 15.11 5.04 10.07 12.59 17.62 20.14 25.18 27.69	20.14
26 05 33	13-0810	EA	1" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	213.98 16.79 5.60 11.19 13.99 19.58 22.38 27.98 30.77	22.37
26 05 33	13-0811	EA	1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	258.68 18.46 6.15 12.31 15.39 21.54 24.62 30.77 33.85	24.61
26 05 33	13-0812	EA	1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	317.19 20.14 6.71 13.43 16.78 23.50 26.85 33.57 36.92	26.85
26 05 33	13-0813	EA	2" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	417.54 21.81 7.27 14.54 18.18 25.45 29.08 36.36 39.99	29.09
26 05 33	13-0814	EA	2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	631.15 26.85 8.95 17.90 22.38 31.33 35.80 44.76 49.23	35.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0815 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	758.64	44.76
For Work In Restricted Working Space, Add	33.56	
For Elevated Installation >10' To 15', Add	11.19	
For Elevated Installation >15' To 20', Add	22.38	
For Elevated Installation >20' To 25', Add	27.97	
For Elevated Installation >25' To 30', Add	39.16	
For Elevated Installation >30' To 35', Add	44.75	
For Elevated Installation >35' To 40', Add	55.94	
For Elevated Installation >40', Add	61.53	
26 05 33 13-0816 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	1,058.24	53.70
For Work In Restricted Working Space, Add	40.28	
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.86	
For Elevated Installation >20' To 25', Add	33.57	
For Elevated Installation >25' To 30', Add	47.00	
For Elevated Installation >30' To 35', Add	53.71	
For Elevated Installation >35' To 40', Add	67.14	
For Elevated Installation >40', Add	73.85	
26 05 33 13-0817 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	1,224.20	58.18
For Work In Restricted Working Space, Add	43.63	
For Elevated Installation >10' To 15', Add	14.54	
For Elevated Installation >15' To 20', Add	29.09	
For Elevated Installation >20' To 25', Add	36.36	
For Elevated Installation >25' To 30', Add	50.90	
For Elevated Installation >30' To 35', Add	58.18	
For Elevated Installation >35' To 40', Add	72.72	
For Elevated Installation >40', Add	79.99	
26 05 33 13-0818 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0740)</small>		
26 05 33 13-0819 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	105.68	27.98
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-0820 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	125.55	33.57
For Work In Restricted Working Space, Add	20.14	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.14	
26 05 33 13-0821 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	153.40	39.16
For Work In Restricted Working Space, Add	23.50	
For Elevated Installation >10' To 15', Add	7.83	
For Elevated Installation >15' To 20', Add	15.66	
For Elevated Installation >20' To 25', Add	19.58	
For Elevated Installation >25' To 30', Add	27.41	
For Elevated Installation >30' To 35', Add	31.33	
For Elevated Installation >35' To 40', Add	39.16	
For Elevated Installation >40', Add	43.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.50	
26 05 33 13-0822 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	180.69	44.76
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-0823 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	237.97	50.35
For Work In Restricted Working Space, Add	30.21	
For Elevated Installation >10' To 15', Add	10.07	
For Elevated Installation >15' To 20', Add	20.14	
For Elevated Installation >20' To 25', Add	25.18	
For Elevated Installation >25' To 30', Add	35.25	
For Elevated Installation >30' To 35', Add	40.28	
For Elevated Installation >35' To 40', Add	50.35	
For Elevated Installation >40', Add	55.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.21	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0824	EA	2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	289.73	55.94
			<i>For Work In Restricted Working Space, Add</i>	33.56	
			<i>For Elevated Installation >10' To 15', Add</i>	11.19	
			<i>For Elevated Installation >15' To 20', Add</i>	22.38	
			<i>For Elevated Installation >20' To 25', Add</i>	27.97	
			<i>For Elevated Installation >25' To 30', Add</i>	39.16	
			<i>For Elevated Installation >30' To 35', Add</i>	44.75	
			<i>For Elevated Installation >35' To 40', Add</i>	55.94	
			<i>For Elevated Installation >40', Add</i>	61.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.56	
26 05 33	13-0825	EA	2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	410.60	67.13
			<i>For Work In Restricted Working Space, Add</i>	40.28	
			<i>For Elevated Installation >10' To 15', Add</i>	13.43	
			<i>For Elevated Installation >15' To 20', Add</i>	26.85	
			<i>For Elevated Installation >20' To 25', Add</i>	33.57	
			<i>For Elevated Installation >25' To 30', Add</i>	46.99	
			<i>For Elevated Installation >30' To 35', Add</i>	53.71	
			<i>For Elevated Installation >35' To 40', Add</i>	67.14	
			<i>For Elevated Installation >40', Add</i>	73.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.28	
26 05 33	13-0826	EA	3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	494.18	78.32
			<i>For Work In Restricted Working Space, Add</i>	46.99	
			<i>For Elevated Installation >10' To 15', Add</i>	15.66	
			<i>For Elevated Installation >15' To 20', Add</i>	31.33	
			<i>For Elevated Installation >20' To 25', Add</i>	39.16	
			<i>For Elevated Installation >25' To 30', Add</i>	54.82	
			<i>For Elevated Installation >30' To 35', Add</i>	62.66	
			<i>For Elevated Installation >35' To 40', Add</i>	78.32	
			<i>For Elevated Installation >40', Add</i>	86.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.99	
26 05 33	13-0827	EA	3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,152.52	89.51
			<i>For Work In Restricted Working Space, Add</i>	53.71	
			<i>For Elevated Installation >10' To 15', Add</i>	17.90	
			<i>For Elevated Installation >15' To 20', Add</i>	35.80	
			<i>For Elevated Installation >20' To 25', Add</i>	44.76	
			<i>For Elevated Installation >25' To 30', Add</i>	62.66	
			<i>For Elevated Installation >30' To 35', Add</i>	71.61	
			<i>For Elevated Installation >35' To 40', Add</i>	89.51	
			<i>For Elevated Installation >40', Add</i>	98.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.71	
26 05 33	13-0828	EA	4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,328.08	100.70
			<i>For Work In Restricted Working Space, Add</i>	60.42	
			<i>For Elevated Installation >10' To 15', Add</i>	20.14	
			<i>For Elevated Installation >15' To 20', Add</i>	40.28	
			<i>For Elevated Installation >20' To 25', Add</i>	50.35	
			<i>For Elevated Installation >25' To 30', Add</i>	70.49	
			<i>For Elevated Installation >30' To 35', Add</i>	80.56	
			<i>For Elevated Installation >35' To 40', Add</i>	100.70	
			<i>For Elevated Installation >40', Add</i>	110.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.42	
26 05 33	13-0829		Intermediate Metal Conduit (IMC) Threaded Couplings <small>(26 05 33 13-0740)</small>		
26 05 33	13-0830	EA	1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	15.12	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.34	
			<i>For Elevated Installation >15' To 20', Add</i>	2.68	
			<i>For Elevated Installation >20' To 25', Add</i>	3.36	
			<i>For Elevated Installation >25' To 30', Add</i>	4.70	
			<i>For Elevated Installation >30' To 35', Add</i>	5.37	
			<i>For Elevated Installation >35' To 40', Add</i>	6.71	
			<i>For Elevated Installation >40', Add</i>	7.38	
26 05 33	13-0831	EA	3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	21.09	7.61
			<i>For Work In Restricted Working Space, Add</i>	5.71	
			<i>For Elevated Installation >10' To 15', Add</i>	1.90	
			<i>For Elevated Installation >15' To 20', Add</i>	3.81	
			<i>For Elevated Installation >20' To 25', Add</i>	4.76	
			<i>For Elevated Installation >25' To 30', Add</i>	6.66	
			<i>For Elevated Installation >30' To 35', Add</i>	7.61	
			<i>For Elevated Installation >35' To 40', Add</i>	9.52	
			<i>For Elevated Installation >40', Add</i>	10.47	
26 05 33	13-0832	EA	1" Intermediate Metal Conduit (IMC) Threaded Coupling	27.67	9.85
			<i>For Work In Restricted Working Space, Add</i>	7.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.30	
			<i>For Elevated Installation >40', Add</i>	13.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0833 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	31.82	11.19
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
26 05 33 13-0834 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	38.40	13.43
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.74	
For Elevated Installation >30' To 35', Add	13.42	
For Elevated Installation >35' To 40', Add	16.78	
For Elevated Installation >40', Add	18.45	
26 05 33 13-0835 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	44.43	15.22
For Work In Restricted Working Space, Add	11.42	
For Elevated Installation >10' To 15', Add	3.81	
For Elevated Installation >15' To 20', Add	7.61	
For Elevated Installation >20' To 25', Add	9.51	
For Elevated Installation >25' To 30', Add	13.32	
For Elevated Installation >30' To 35', Add	15.22	
For Elevated Installation >35' To 40', Add	19.03	
For Elevated Installation >40', Add	20.93	
26 05 33 13-0836 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	56.65	17.00
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
26 05 33 13-0837 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	67.42	19.24
For Work In Restricted Working Space, Add	14.43	
For Elevated Installation >10' To 15', Add	4.81	
For Elevated Installation >15' To 20', Add	9.62	
For Elevated Installation >20' To 25', Add	12.03	
For Elevated Installation >25' To 30', Add	16.84	
For Elevated Installation >30' To 35', Add	19.24	
For Elevated Installation >35' To 40', Add	24.06	
For Elevated Installation >40', Add	26.46	
26 05 33 13-0838 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	78.41	21.04
For Work In Restricted Working Space, Add	15.78	
For Elevated Installation >10' To 15', Add	5.26	
For Elevated Installation >15' To 20', Add	10.52	
For Elevated Installation >20' To 25', Add	13.15	
For Elevated Installation >25' To 30', Add	18.41	
For Elevated Installation >30' To 35', Add	21.04	
For Elevated Installation >35' To 40', Add	26.30	
For Elevated Installation >40', Add	28.93	
26 05 33 13-0839 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	81.94	22.37
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.98	
For Elevated Installation >25' To 30', Add	19.57	
For Elevated Installation >30' To 35', Add	22.37	
For Elevated Installation >35' To 40', Add	27.96	
For Elevated Installation >40', Add	30.76	
26 05 33 13-0840 Intermediate Metal Conduit (IMC) Reducer Bushings <small>(26 05 33 13-0740)</small>		
26 05 33 13-0841 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	7.49	2.24
For Work In Restricted Working Space, Add	1.68	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.12	
For Elevated Installation >20' To 25', Add	1.40	
For Elevated Installation >25' To 30', Add	1.96	
For Elevated Installation >30' To 35', Add	2.24	
For Elevated Installation >35' To 40', Add	2.80	
For Elevated Installation >40', Add	3.07	
26 05 33 13-0842 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	8.58	2.24
For Work In Restricted Working Space, Add	1.68	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.12	
For Elevated Installation >20' To 25', Add	1.40	
For Elevated Installation >25' To 30', Add	1.96	
For Elevated Installation >30' To 35', Add	2.24	
For Elevated Installation >35' To 40', Add	2.80	
For Elevated Installation >40', Add	3.07	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-0843	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0059)</small> Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0844	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0843)</small> Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0845	LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	13.51	3.13
	For >250 To 500, Deduct	-0.48	
	For >500 To 1,000, Deduct	-0.82	
	For >1,000, Deduct	-1.16	
	For Elevated Installation >10' To 15', Add	0.78	
	For Elevated Installation >15' To 20', Add	1.57	
	For Elevated Installation >20' To 25', Add	1.96	
	For Elevated Installation >25' To 30', Add	2.74	
	For Elevated Installation >30' To 35', Add	3.13	
	For Elevated Installation >35' To 40', Add	3.92	
	For Elevated Installation >40', Add	4.31	
	For Work In Restricted Working Space, Add	2.35	
26 05 33 13-0846	LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	15.52	3.58
	For >250 To 500, Deduct	-0.55	
	For >500 To 1,000, Deduct	-0.94	
	For >1,000, Deduct	-1.33	
	For Elevated Installation >10' To 15', Add	0.90	
	For Elevated Installation >15' To 20', Add	1.79	
	For Elevated Installation >20' To 25', Add	2.24	
	For Elevated Installation >25' To 30', Add	3.13	
	For Elevated Installation >30' To 35', Add	3.58	
	For Elevated Installation >35' To 40', Add	4.48	
	For Elevated Installation >40', Add	4.92	
	For Work In Restricted Working Space, Add	2.69	
26 05 33 13-0847	LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	19.71	4.48
	For >250 To 500, Deduct	-0.71	
	For >500 To 1,000, Deduct	-1.20	
	For >1,000, Deduct	-1.69	
	For Elevated Installation >10' To 15', Add	1.12	
	For Elevated Installation >15' To 20', Add	2.24	
	For Elevated Installation >20' To 25', Add	2.80	
	For Elevated Installation >25' To 30', Add	3.92	
	For Elevated Installation >30' To 35', Add	4.48	
	For Elevated Installation >35' To 40', Add	5.60	
	For Elevated Installation >40', Add	6.15	
	For Work In Restricted Working Space, Add	3.36	
26 05 33 13-0848	LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	24.23	5.37
	For >250 To 500, Deduct	-0.88	
	For >500 To 1,000, Deduct	-1.48	
	For >1,000, Deduct	-2.09	
	For Elevated Installation >10' To 15', Add	1.34	
	For Elevated Installation >15' To 20', Add	2.69	
	For Elevated Installation >20' To 25', Add	3.36	
	For Elevated Installation >25' To 30', Add	4.70	
	For Elevated Installation >30' To 35', Add	5.37	
	For Elevated Installation >35' To 40', Add	6.72	
	For Elevated Installation >40', Add	7.39	
	For Work In Restricted Working Space, Add	4.03	
26 05 33 13-0849	LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	29.90	6.72
	For >250 To 500, Deduct	-1.08	
	For >500 To 1,000, Deduct	-1.82	
	For >1,000, Deduct	-2.57	
	For Elevated Installation >10' To 15', Add	1.68	
	For Elevated Installation >15' To 20', Add	3.36	
	For Elevated Installation >20' To 25', Add	4.20	
	For Elevated Installation >25' To 30', Add	5.87	
	For Elevated Installation >30' To 35', Add	6.71	
	For Elevated Installation >35' To 40', Add	8.39	
	For Elevated Installation >40', Add	9.23	
	For Work In Restricted Working Space, Add	5.03	
26 05 33 13-0850	LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	37.24	8.06
	For >250 To 500, Deduct	-1.36	
	For >500 To 1,000, Deduct	-2.29	
	For >1,000, Deduct	-3.22	
	For Elevated Installation >10' To 15', Add	2.01	
	For Elevated Installation >15' To 20', Add	4.03	
	For Elevated Installation >20' To 25', Add	5.04	
	For Elevated Installation >25' To 30', Add	7.05	
	For Elevated Installation >30' To 35', Add	8.06	
	For Elevated Installation >35' To 40', Add	10.07	
	For Elevated Installation >40', Add	11.08	
	For Work In Restricted Working Space, Add	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0851 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	49.43	9.40
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.12	
For >1,000, Deduct	-4.36	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.70	
For Elevated Installation >20' To 25', Add	5.88	
For Elevated Installation >25' To 30', Add	8.23	
For Elevated Installation >30' To 35', Add	9.40	
For Elevated Installation >35' To 40', Add	11.75	
For Elevated Installation >40', Add	12.93	
For Work In Restricted Working Space, Add	7.05	
26 05 33 13-0852 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	61.79	11.63
For >250 To 500, Deduct	-2.36	
For >500 To 1,000, Deduct	-3.91	
For >1,000, Deduct	-5.45	
For Elevated Installation >10' To 15', Add	2.91	
For Elevated Installation >15' To 20', Add	5.82	
For Elevated Installation >20' To 25', Add	7.27	
For Elevated Installation >25' To 30', Add	10.18	
For Elevated Installation >30' To 35', Add	11.64	
For Elevated Installation >35' To 40', Add	14.55	
For Elevated Installation >40', Add	16.00	
For Work In Restricted Working Space, Add	8.73	
26 05 33 13-0853 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	75.81	14.32
For >250 To 500, Deduct	-2.90	
For >500 To 1,000, Deduct	-4.79	
For >1,000, Deduct	-6.69	
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.16	
For Elevated Installation >20' To 25', Add	8.95	
For Elevated Installation >25' To 30', Add	12.53	
For Elevated Installation >30' To 35', Add	14.32	
For Elevated Installation >35' To 40', Add	17.91	
For Elevated Installation >40', Add	19.70	
For Work In Restricted Working Space, Add	10.74	
26 05 33 13-0854 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	89.68	17.00
For >250 To 500, Deduct	-3.42	
For >500 To 1,000, Deduct	-5.66	
For >1,000, Deduct	-7.91	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.01	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.39	
For Work In Restricted Working Space, Add	12.76	
26 05 33 13-0855 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	133.92	20.14
For >250 To 500, Deduct	-5.44	
For >500 To 1,000, Deduct	-8.79	
For >1,000, Deduct	-12.13	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.07	
For Elevated Installation >20' To 25', Add	12.59	
For Elevated Installation >25' To 30', Add	17.62	
For Elevated Installation >30' To 35', Add	20.14	
For Elevated Installation >35' To 40', Add	25.18	
For Elevated Installation >40', Add	27.69	
For Work In Restricted Working Space, Add	15.11	
26 05 33 13-0856 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	181.66	26.85
For >250 To 500, Deduct	-7.40	
For >500 To 1,000, Deduct	-11.95	
For >1,000, Deduct	-16.49	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.43	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.50	
For Elevated Installation >30' To 35', Add	26.85	
For Elevated Installation >35' To 40', Add	33.57	
For Elevated Installation >40', Add	36.92	
For Work In Restricted Working Space, Add	20.14	
26 05 33 13-0857 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0843)</small>		
26 05 33 13-0858 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	19.42	6.72
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.36	
For Elevated Installation >25' To 30', Add	4.70	
For Elevated Installation >30' To 35', Add	5.37	
For Elevated Installation >35' To 40', Add	6.72	
For Elevated Installation >40', Add	7.39	
For Work In Restricted Working Space, Add	4.03	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0859	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	25.30	9.51
			<i>For Elevated Installation >10' To 15', Add</i>	1.90	
			<i>For Elevated Installation >15' To 20', Add</i>	3.80	
			<i>For Elevated Installation >20' To 25', Add</i>	4.76	
			<i>For Elevated Installation >25' To 30', Add</i>	6.66	
			<i>For Elevated Installation >30' To 35', Add</i>	7.61	
			<i>For Elevated Installation >35' To 40', Add</i>	9.51	
			<i>For Elevated Installation >40', Add</i>	10.46	
			<i>For Work In Restricted Working Space, Add</i>	5.71	
26 05 33	13-0860	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	32.76	12.31
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.61	
			<i>For Elevated Installation >30' To 35', Add</i>	9.84	
			<i>For Elevated Installation >35' To 40', Add</i>	12.31	
			<i>For Elevated Installation >40', Add</i>	13.54	
			<i>For Work In Restricted Working Space, Add</i>	7.38	
26 05 33	13-0861	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	37.49	13.98
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
			<i>For Work In Restricted Working Space, Add</i>	8.39	
26 05 33	13-0862	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	44.87	16.78
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
26 05 33	13-0863	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	54.58	19.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.80	
			<i>For Elevated Installation >15' To 20', Add</i>	7.61	
			<i>For Elevated Installation >20' To 25', Add</i>	9.51	
			<i>For Elevated Installation >25' To 30', Add</i>	13.31	
			<i>For Elevated Installation >30' To 35', Add</i>	15.22	
			<i>For Elevated Installation >35' To 40', Add</i>	19.02	
			<i>For Elevated Installation >40', Add</i>	20.92	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
26 05 33	13-0864	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	83.47	19.02
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.01	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.39	
			<i>For Work In Restricted Working Space, Add</i>	12.76	
26 05 33	13-0865	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	97.84	26.29
			<i>For Elevated Installation >10' To 15', Add</i>	4.81	
			<i>For Elevated Installation >15' To 20', Add</i>	9.62	
			<i>For Elevated Installation >20' To 25', Add</i>	12.03	
			<i>For Elevated Installation >25' To 30', Add</i>	16.84	
			<i>For Elevated Installation >30' To 35', Add</i>	19.24	
			<i>For Elevated Installation >35' To 40', Add</i>	24.06	
			<i>For Elevated Installation >40', Add</i>	26.46	
			<i>For Work In Restricted Working Space, Add</i>	14.43	
26 05 33	13-0866	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	116.39	26.29
			<i>For Elevated Installation >10' To 15', Add</i>	5.26	
			<i>For Elevated Installation >15' To 20', Add</i>	10.52	
			<i>For Elevated Installation >20' To 25', Add</i>	13.15	
			<i>For Elevated Installation >25' To 30', Add</i>	18.41	
			<i>For Elevated Installation >30' To 35', Add</i>	21.04	
			<i>For Elevated Installation >35' To 40', Add</i>	26.30	
			<i>For Elevated Installation >40', Add</i>	28.92	
			<i>For Work In Restricted Working Space, Add</i>	15.78	
26 05 33	13-0867	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	130.54	27.98
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Work In Restricted Working Space, Add</i>	16.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0868 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	310.21	33.57
<i>For Elevated Installation >10' To 15', Add</i>	6.71	
<i>For Elevated Installation >15' To 20', Add</i>	13.43	
<i>For Elevated Installation >20' To 25', Add</i>	16.78	
<i>For Elevated Installation >25' To 30', Add</i>	23.50	
<i>For Elevated Installation >30' To 35', Add</i>	26.85	
<i>For Elevated Installation >35' To 40', Add</i>	33.57	
<i>For Elevated Installation >40', Add</i>	36.92	
<i>For Work In Restricted Working Space, Add</i>	20.14	
26 05 33 13-0869 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	349.85	39.16
<i>For Elevated Installation >10' To 15', Add</i>	7.83	
<i>For Elevated Installation >15' To 20', Add</i>	15.66	
<i>For Elevated Installation >20' To 25', Add</i>	19.58	
<i>For Elevated Installation >25' To 30', Add</i>	27.41	
<i>For Elevated Installation >30' To 35', Add</i>	31.33	
<i>For Elevated Installation >35' To 40', Add</i>	39.16	
<i>For Elevated Installation >40', Add</i>	43.08	
<i>For Work In Restricted Working Space, Add</i>	23.50	
26 05 33 13-0870 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows (26 05 33 13-0843)		
Note: 90, 45, or 30 degree.		
26 05 33 13-0871 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	57.38	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.55	
<i>For Elevated Installation >35' To 40', Add</i>	18.19	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-0872 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	66.90	22.54
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.02	
<i>For Elevated Installation >20' To 25', Add</i>	11.27	
<i>For Elevated Installation >25' To 30', Add</i>	15.78	
<i>For Elevated Installation >30' To 35', Add</i>	18.04	
<i>For Elevated Installation >35' To 40', Add</i>	22.55	
<i>For Elevated Installation >40', Add</i>	24.80	
<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-0873 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	80.28	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-0874 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	94.74	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-0875 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	110.49	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-0876 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	132.72	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-0877 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	199.68	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0878	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	295.43 13.67 27.35 34.18 47.86 54.69 68.37 75.20 41.02	68.36
26 05 33	13-0879	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	362.42 15.42 30.84 38.55 53.96 61.67 77.09 84.80 46.25	77.09
26 05 33	13-0880	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	420.86 20.07 40.15 50.18 70.26 80.29 100.37 110.40 60.22	100.36
26 05 33	13-0881	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	857.74 32.73 65.45 81.82 114.54 130.90 163.63 179.99 98.18	163.64
26 05 33	13-0882	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,344.30 49.16 98.32 122.91 172.07 196.65 245.81 270.39 147.49	245.82
26 05 33 13-0883 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0843)</small>					
26 05 33	13-0884	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	129.79 5.53 11.05 13.82 19.34 22.11 27.64 30.40 16.58	27.63
26 05 33	13-0885	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	146.43 6.40 12.80 16.00 22.40 25.60 32.00 35.20 19.20	32.00
26 05 33	13-0886	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	167.09 7.27 14.54 18.18 25.45 29.09 36.36 40.00 21.82	36.37
26 05 33	13-0887	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	198.02 8.00 16.00 20.00 28.00 32.00 40.00 44.00 24.00	40.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0888 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	273.59	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-0890 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	143.19	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-0891 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	168.56	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-0892 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	182.95	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-0893 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	232.61	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-0894 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	306.95	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33 13-0895 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	394.36	68.36
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	
<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33 13-0896 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-0897 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	159.20	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0898	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	180.08	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33	13-0899	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	203.31	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33	13-0900	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	244.09	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33	13-0901	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	345.28	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-0902	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	439.36	68.36
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.18	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.69	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.20	
			<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33	13-0903	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	550.89	77.09
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
			<i>For Work In Restricted Working Space, Add</i>	46.25	
26 05 33	13-0904	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	626.19	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33	13-0905		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows <small>(26 05 33 13-0843)</small>		
26 05 33	13-0906	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	186.85	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33	13-0907	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	207.13	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0908 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	234.02	36.37
For Elevated Installation >10' To 15', Add	7.27	
For Elevated Installation >15' To 20', Add	14.54	
For Elevated Installation >20' To 25', Add	18.18	
For Elevated Installation >25' To 30', Add	25.45	
For Elevated Installation >30' To 35', Add	29.09	
For Elevated Installation >35' To 40', Add	36.36	
For Elevated Installation >40', Add	40.00	
For Work In Restricted Working Space, Add	21.82	
26 05 33 13-0909 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	288.31	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-0910 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	413.89	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
26 05 33 13-0911 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	515.61	68.36
For Elevated Installation >10' To 15', Add	13.67	
For Elevated Installation >15' To 20', Add	27.35	
For Elevated Installation >20' To 25', Add	34.18	
For Elevated Installation >25' To 30', Add	47.86	
For Elevated Installation >30' To 35', Add	54.69	
For Elevated Installation >35' To 40', Add	68.37	
For Elevated Installation >40', Add	75.20	
For Work In Restricted Working Space, Add	41.02	
26 05 33 13-0912 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	587.44	77.09
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.84	
For Elevated Installation >20' To 25', Add	38.55	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.80	
For Work In Restricted Working Space, Add	46.25	
26 05 33 13-0913 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	711.65	100.36
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.15	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.26	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.37	
For Elevated Installation >40', Add	110.40	
For Work In Restricted Working Space, Add	60.22	
26 05 33 13-0914 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows		
<small>(26 05 33 13-0843)</small>		
26 05 33 13-0915 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	208.37	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.11	
For Elevated Installation >35' To 40', Add	27.64	
For Elevated Installation >40', Add	30.40	
For Work In Restricted Working Space, Add	16.58	
26 05 33 13-0916 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	232.31	32.00
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
For Work In Restricted Working Space, Add	19.20	
26 05 33 13-0917 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	264.25	36.37
For Elevated Installation >10' To 15', Add	7.27	
For Elevated Installation >15' To 20', Add	14.54	
For Elevated Installation >20' To 25', Add	18.18	
For Elevated Installation >25' To 30', Add	25.45	
For Elevated Installation >30' To 35', Add	29.09	
For Elevated Installation >35' To 40', Add	36.36	
For Elevated Installation >40', Add	40.00	
For Work In Restricted Working Space, Add	21.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0918	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	326.81 8.00 16.00 20.00 28.00 32.00 40.00 44.00 24.00	40.00
26 05 33	13-0919	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	451.32 10.04 20.07 25.09 35.13 40.14 50.18 55.20 30.11	50.18
26 05 33	13-0920	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	576.60 13.67 27.35 34.18 47.86 54.69 68.37 75.20 41.02	68.36
26 05 33	13-0921	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	710.64 15.42 30.84 38.55 53.96 61.67 77.09 84.80 46.25	77.09
26 05 33	13-0922	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	790.11 20.07 40.15 50.18 70.26 80.29 100.37 110.40 60.22	100.36
26 05 33	13-0923	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,315.75 32.73 65.45 81.82 114.54 130.90 163.63 179.99 98.18	163.64
<p>26 05 33 13-0924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0843)</small></p>					
26 05 33	13-0925	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	236.51 5.53 11.05 13.82 19.34 22.11 27.64 30.40 16.58	27.63
26 05 33	13-0926	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	262.73 6.40 12.80 16.00 22.40 25.60 32.00 35.20 19.20	32.00
26 05 33	13-0927	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	297.38 7.27 14.54 18.18 25.45 29.09 36.36 40.00 21.82	36.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0928 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	369.51	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-0929 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	513.69	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
26 05 33 13-0930 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	654.30	68.36
For Elevated Installation >10' To 15', Add	13.67	
For Elevated Installation >15' To 20', Add	27.35	
For Elevated Installation >20' To 25', Add	34.18	
For Elevated Installation >25' To 30', Add	47.86	
For Elevated Installation >30' To 35', Add	54.69	
For Elevated Installation >35' To 40', Add	68.37	
For Elevated Installation >40', Add	75.20	
For Work In Restricted Working Space, Add	41.02	
26 05 33 13-0931 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	767.35	77.09
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.84	
For Elevated Installation >20' To 25', Add	38.55	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.80	
For Work In Restricted Working Space, Add	46.25	
26 05 33 13-0932 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	891.39	100.36
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.15	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.26	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.37	
For Elevated Installation >40', Add	110.40	
For Work In Restricted Working Space, Add	60.22	
26 05 33 13-0933 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,386.73	163.64
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
For Work In Restricted Working Space, Add	98.18	
26 05 33 13-0934 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,905.18	245.82
For Elevated Installation >10' To 15', Add	49.16	
For Elevated Installation >15' To 20', Add	98.32	
For Elevated Installation >20' To 25', Add	122.91	
For Elevated Installation >25' To 30', Add	172.07	
For Elevated Installation >30' To 35', Add	196.65	
For Elevated Installation >35' To 40', Add	245.81	
For Elevated Installation >40', Add	270.39	
For Work In Restricted Working Space, Add	147.49	
26 05 33 13-0935 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-0936 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	275.69	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.11	
For Elevated Installation >35' To 40', Add	27.64	
For Elevated Installation >40', Add	30.40	
For Work In Restricted Working Space, Add	16.58	
26 05 33 13-0937 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	289.85	32.00
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
For Work In Restricted Working Space, Add	19.20	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0938	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	341.73	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33	13-0939	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	428.94	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33	13-0940	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	597.80	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.15	
			<i>For Elevated Installation >35' To 40', Add</i>	50.19	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-0941	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	759.05	68.36
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.18	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.69	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.20	
			<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33	13-0942	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	925.04	77.09
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
			<i>For Work In Restricted Working Space, Add</i>	46.25	
26 05 33	13-0943	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	1,088.42	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33	13-0944	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	1,618.26	163.64
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.45	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.54	
			<i>For Elevated Installation >30' To 35', Add</i>	130.90	
			<i>For Elevated Installation >35' To 40', Add</i>	163.63	
			<i>For Elevated Installation >40', Add</i>	179.99	
			<i>For Work In Restricted Working Space, Add</i>	98.18	
26 05 33	13-0945	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	2,011.46	245.82
			<i>For Elevated Installation >10' To 15', Add</i>	49.16	
			<i>For Elevated Installation >15' To 20', Add</i>	98.32	
			<i>For Elevated Installation >20' To 25', Add</i>	122.91	
			<i>For Elevated Installation >25' To 30', Add</i>	172.07	
			<i>For Elevated Installation >30' To 35', Add</i>	196.65	
			<i>For Elevated Installation >35' To 40', Add</i>	245.81	
			<i>For Elevated Installation >40', Add</i>	270.39	
			<i>For Work In Restricted Working Space, Add</i>	147.49	
26 05 33	13-0946		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows		
			<small>(26 05 33 13-0943)</small>		
26 05 33	13-0947	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	285.13	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0948 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	335.73	32.00
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
For Work In Restricted Working Space, Add	19.20	
26 05 33 13-0949 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	380.08	36.37
For Elevated Installation >10' To 15', Add	7.27	
For Elevated Installation >15' To 20', Add	14.54	
For Elevated Installation >20' To 25', Add	18.18	
For Elevated Installation >25' To 30', Add	25.45	
For Elevated Installation >30' To 35', Add	29.09	
For Elevated Installation >35' To 40', Add	36.36	
For Elevated Installation >40', Add	40.00	
For Work In Restricted Working Space, Add	21.82	
26 05 33 13-0950 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	446.82	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-0951 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	618.81	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.15	
For Elevated Installation >35' To 40', Add	50.19	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
26 05 33 13-0952 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	791.27	68.36
For Elevated Installation >10' To 15', Add	13.67	
For Elevated Installation >15' To 20', Add	27.35	
For Elevated Installation >20' To 25', Add	34.18	
For Elevated Installation >25' To 30', Add	47.86	
For Elevated Installation >30' To 35', Add	54.69	
For Elevated Installation >35' To 40', Add	68.37	
For Elevated Installation >40', Add	75.20	
For Work In Restricted Working Space, Add	41.02	
26 05 33 13-0953 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,010.92	77.09
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.84	
For Elevated Installation >20' To 25', Add	38.55	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.80	
For Work In Restricted Working Space, Add	46.25	
26 05 33 13-0954 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,133.11	100.36
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.15	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.26	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.37	
For Elevated Installation >40', Add	110.40	
For Work In Restricted Working Space, Add	60.22	
26 05 33 13-0955 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,680.46	163.64
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
For Work In Restricted Working Space, Add	98.18	
26 05 33 13-0956 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	2,065.46	245.82
For Elevated Installation >10' To 15', Add	49.16	
For Elevated Installation >15' To 20', Add	98.32	
For Elevated Installation >20' To 25', Add	122.91	
For Elevated Installation >25' To 30', Add	172.07	
For Elevated Installation >30' To 35', Add	196.65	
For Elevated Installation >35' To 40', Add	245.81	
For Elevated Installation >40', Add	270.39	
For Work In Restricted Working Space, Add	147.49	
26 05 33 13-0957 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealright Fittings (26 05 33 13-0843)		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0958	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	107.01	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-0959	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	131.31	24.00
			<i>For Elevated Installation >10' To 15', Add</i>	4.80	
			<i>For Elevated Installation >15' To 20', Add</i>	9.60	
			<i>For Elevated Installation >20' To 25', Add</i>	12.00	
			<i>For Elevated Installation >25' To 30', Add</i>	16.80	
			<i>For Elevated Installation >30' To 35', Add</i>	19.20	
			<i>For Elevated Installation >35' To 40', Add</i>	24.00	
			<i>For Elevated Installation >40', Add</i>	26.40	
			<i>For Work In Restricted Working Space, Add</i>	14.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.40	
26 05 33	13-0960	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	174.24	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33	13-0961	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	283.67	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20	
26 05 33	13-0962	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	313.40	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33	13-0963	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	394.87	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	43.99	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33	13-0964	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,064.93	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33	13-0965	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,272.63	68.36
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.19	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.70	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.21	
			<i>For Work In Restricted Working Space, Add</i>	41.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0966 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,692.71	100.36
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.14	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.25	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.36	
<i>For Elevated Installation >40', Add</i>	110.40	
<i>For Work In Restricted Working Space, Add</i>	60.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.22	
26 05 33 13-0967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fittings <small>(26 05 33 13-0843)</small>		
26 05 33 13-0968 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	102.72	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.55	
<i>For Elevated Installation >35' To 40', Add</i>	18.19	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33 13-0969 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	126.45	24.00
<i>For Elevated Installation >10' To 15', Add</i>	4.80	
<i>For Elevated Installation >15' To 20', Add</i>	9.60	
<i>For Elevated Installation >20' To 25', Add</i>	12.00	
<i>For Elevated Installation >25' To 30', Add</i>	16.80	
<i>For Elevated Installation >30' To 35', Add</i>	19.20	
<i>For Elevated Installation >35' To 40', Add</i>	24.00	
<i>For Elevated Installation >40', Add</i>	26.40	
<i>For Work In Restricted Working Space, Add</i>	14.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.40	
26 05 33 13-0970 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	174.24	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-0971 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	281.17	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20	
26 05 33 13-0972 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	303.33	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33 13-0973 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	395.00	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	43.99	
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-0974 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,021.97	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0975	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,241.28	68.36
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.19	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.70	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.21	
			<i>For Work In Restricted Working Space, Add</i>	41.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02	
26 05 33	13-0976	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,692.63	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.14	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.25	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.36	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.22	
26 05 33 13-0977 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings ^(26 05 33 13-0843)					
26 05 33	13-0978	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	93.21	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-0979	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	112.02	24.00
			<i>For Elevated Installation >10' To 15', Add</i>	4.80	
			<i>For Elevated Installation >15' To 20', Add</i>	9.60	
			<i>For Elevated Installation >20' To 25', Add</i>	12.00	
			<i>For Elevated Installation >25' To 30', Add</i>	16.80	
			<i>For Elevated Installation >30' To 35', Add</i>	19.20	
			<i>For Elevated Installation >35' To 40', Add</i>	24.00	
			<i>For Elevated Installation >40', Add</i>	26.40	
			<i>For Work In Restricted Working Space, Add</i>	14.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.40	
26 05 33	13-0980	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	132.05	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33	13-0981	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	186.24	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20	
26 05 33	13-0982	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	217.35	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33	13-0983	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	332.87	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	43.99	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0984 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	902.32	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.11	
26 05 33 13-0985 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	1,017.81	68.36
For Elevated Installation >10' To 15', Add	13.67	
For Elevated Installation >15' To 20', Add	27.35	
For Elevated Installation >20' To 25', Add	34.19	
For Elevated Installation >25' To 30', Add	47.86	
For Elevated Installation >30' To 35', Add	54.70	
For Elevated Installation >35' To 40', Add	68.37	
For Elevated Installation >40', Add	75.21	
For Work In Restricted Working Space, Add	41.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.02	
26 05 33 13-0986 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	1,302.16	100.36
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.14	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.25	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.36	
For Elevated Installation >40', Add	110.40	
For Work In Restricted Working Space, Add	60.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.22	
26 05 33 13-0987 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-0988 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	156.82	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.55	
For Elevated Installation >35' To 40', Add	18.19	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-0989 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	235.72	24.00
For Elevated Installation >10' To 15', Add	4.80	
For Elevated Installation >15' To 20', Add	9.60	
For Elevated Installation >20' To 25', Add	12.00	
For Elevated Installation >25' To 30', Add	16.80	
For Elevated Installation >30' To 35', Add	19.20	
For Elevated Installation >35' To 40', Add	24.00	
For Elevated Installation >40', Add	26.40	
For Work In Restricted Working Space, Add	14.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.40	
26 05 33 13-0990 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	295.87	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.11	
For Elevated Installation >35' To 40', Add	27.64	
For Elevated Installation >40', Add	30.40	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-0991 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	341.55	32.00
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
For Work In Restricted Working Space, Add	19.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.20	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0992	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	387.89	36.37
		<i>For Elevated Installation >10' To 15', Add</i>	7.27	
		<i>For Elevated Installation >15' To 20', Add</i>	14.54	
		<i>For Elevated Installation >20' To 25', Add</i>	18.18	
		<i>For Elevated Installation >25' To 30', Add</i>	25.45	
		<i>For Elevated Installation >30' To 35', Add</i>	29.09	
		<i>For Elevated Installation >35' To 40', Add</i>	36.36	
		<i>For Elevated Installation >40', Add</i>	40.00	
		<i>For Work In Restricted Working Space, Add</i>	21.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33 13-0993	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	509.04	40.00
		<i>For Elevated Installation >10' To 15', Add</i>	8.00	
		<i>For Elevated Installation >15' To 20', Add</i>	16.00	
		<i>For Elevated Installation >20' To 25', Add</i>	20.00	
		<i>For Elevated Installation >25' To 30', Add</i>	28.00	
		<i>For Elevated Installation >30' To 35', Add</i>	32.00	
		<i>For Elevated Installation >35' To 40', Add</i>	40.00	
		<i>For Elevated Installation >40', Add</i>	43.99	
		<i>For Work In Restricted Working Space, Add</i>	24.00	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-0994	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,587.91	50.18
		<i>For Elevated Installation >10' To 15', Add</i>	10.04	
		<i>For Elevated Installation >15' To 20', Add</i>	20.07	
		<i>For Elevated Installation >20' To 25', Add</i>	25.09	
		<i>For Elevated Installation >25' To 30', Add</i>	35.13	
		<i>For Elevated Installation >30' To 35', Add</i>	40.14	
		<i>For Elevated Installation >35' To 40', Add</i>	50.18	
		<i>For Elevated Installation >40', Add</i>	55.20	
		<i>For Work In Restricted Working Space, Add</i>	30.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33 13-0995	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,855.89	68.36
		<i>For Elevated Installation >10' To 15', Add</i>	13.67	
		<i>For Elevated Installation >15' To 20', Add</i>	27.35	
		<i>For Elevated Installation >20' To 25', Add</i>	34.19	
		<i>For Elevated Installation >25' To 30', Add</i>	47.86	
		<i>For Elevated Installation >30' To 35', Add</i>	54.70	
		<i>For Elevated Installation >35' To 40', Add</i>	68.37	
		<i>For Elevated Installation >40', Add</i>	75.21	
		<i>For Work In Restricted Working Space, Add</i>	41.02	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02	
26 05 33 13-0996	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,284.85	100.36
		<i>For Elevated Installation >10' To 15', Add</i>	20.07	
		<i>For Elevated Installation >15' To 20', Add</i>	40.14	
		<i>For Elevated Installation >20' To 25', Add</i>	50.18	
		<i>For Elevated Installation >25' To 30', Add</i>	70.25	
		<i>For Elevated Installation >30' To 35', Add</i>	80.29	
		<i>For Elevated Installation >35' To 40', Add</i>	100.36	
		<i>For Elevated Installation >40', Add</i>	110.40	
		<i>For Work In Restricted Working Space, Add</i>	60.22	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.22	
26 05 33 13-0997		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings <small>(26 05 33 13-0943)</small>		
26 05 33 13-0998	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	173.70	18.18
		<i>For Elevated Installation >10' To 15', Add</i>	3.64	
		<i>For Elevated Installation >15' To 20', Add</i>	7.27	
		<i>For Elevated Installation >20' To 25', Add</i>	9.09	
		<i>For Elevated Installation >25' To 30', Add</i>	12.73	
		<i>For Elevated Installation >30' To 35', Add</i>	14.55	
		<i>For Elevated Installation >35' To 40', Add</i>	18.19	
		<i>For Elevated Installation >40', Add</i>	20.00	
		<i>For Work In Restricted Working Space, Add</i>	10.91	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33 13-0999	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	251.66	24.00
		<i>For Elevated Installation >10' To 15', Add</i>	4.80	
		<i>For Elevated Installation >15' To 20', Add</i>	9.60	
		<i>For Elevated Installation >20' To 25', Add</i>	12.00	
		<i>For Elevated Installation >25' To 30', Add</i>	16.80	
		<i>For Elevated Installation >30' To 35', Add</i>	19.20	
		<i>For Elevated Installation >35' To 40', Add</i>	24.00	
		<i>For Elevated Installation >40', Add</i>	26.40	
		<i>For Work In Restricted Working Space, Add</i>	14.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1000 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	298.90	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1001 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	346.55	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20	
26 05 33 13-1002 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	401.60	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33 13-1003 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	629.51	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	43.99	
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1004 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,769.68	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33 13-1005 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,490.51	68.36
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.19	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.70	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.21	
<i>For Work In Restricted Working Space, Add</i>	41.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02	
26 05 33 13-1006 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,606.11	100.36
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.14	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.25	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.36	
<i>For Elevated Installation >40', Add</i>	110.40	
<i>For Work In Restricted Working Space, Add</i>	60.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.22	

26 05 33 13-1007 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0843)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1008	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	138.21	18.18
		<i>For Elevated Installation >10' To 15', Add</i>	3.64	
		<i>For Elevated Installation >15' To 20', Add</i>	7.27	
		<i>For Elevated Installation >20' To 25', Add</i>	9.09	
		<i>For Elevated Installation >25' To 30', Add</i>	12.73	
		<i>For Elevated Installation >30' To 35', Add</i>	14.55	
		<i>For Elevated Installation >35' To 40', Add</i>	18.19	
		<i>For Elevated Installation >40', Add</i>	20.00	
		<i>For Work In Restricted Working Space, Add</i>	10.91	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33 13-1009	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	174.58	24.00
		<i>For Elevated Installation >10' To 15', Add</i>	4.80	
		<i>For Elevated Installation >15' To 20', Add</i>	9.60	
		<i>For Elevated Installation >20' To 25', Add</i>	12.00	
		<i>For Elevated Installation >25' To 30', Add</i>	16.80	
		<i>For Elevated Installation >30' To 35', Add</i>	19.20	
		<i>For Elevated Installation >35' To 40', Add</i>	24.00	
		<i>For Elevated Installation >40', Add</i>	26.40	
		<i>For Work In Restricted Working Space, Add</i>	14.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.40	
26 05 33 13-1010	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	208.95	27.63
		<i>For Elevated Installation >10' To 15', Add</i>	5.53	
		<i>For Elevated Installation >15' To 20', Add</i>	11.05	
		<i>For Elevated Installation >20' To 25', Add</i>	13.82	
		<i>For Elevated Installation >25' To 30', Add</i>	19.34	
		<i>For Elevated Installation >30' To 35', Add</i>	22.11	
		<i>For Elevated Installation >35' To 40', Add</i>	27.64	
		<i>For Elevated Installation >40', Add</i>	30.40	
		<i>For Work In Restricted Working Space, Add</i>	16.58	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1011	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	231.80	32.00
		<i>For Elevated Installation >10' To 15', Add</i>	6.40	
		<i>For Elevated Installation >15' To 20', Add</i>	12.80	
		<i>For Elevated Installation >20' To 25', Add</i>	16.00	
		<i>For Elevated Installation >25' To 30', Add</i>	22.40	
		<i>For Elevated Installation >30' To 35', Add</i>	25.60	
		<i>For Elevated Installation >35' To 40', Add</i>	32.00	
		<i>For Elevated Installation >40', Add</i>	35.20	
		<i>For Work In Restricted Working Space, Add</i>	19.20	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20	
26 05 33 13-1012	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	310.87	36.37
		<i>For Elevated Installation >10' To 15', Add</i>	7.27	
		<i>For Elevated Installation >15' To 20', Add</i>	14.54	
		<i>For Elevated Installation >20' To 25', Add</i>	18.18	
		<i>For Elevated Installation >25' To 30', Add</i>	25.45	
		<i>For Elevated Installation >30' To 35', Add</i>	29.09	
		<i>For Elevated Installation >35' To 40', Add</i>	36.36	
		<i>For Elevated Installation >40', Add</i>	40.00	
		<i>For Work In Restricted Working Space, Add</i>	21.82	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	
26 05 33 13-1013	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	437.23	40.00
		<i>For Elevated Installation >10' To 15', Add</i>	8.00	
		<i>For Elevated Installation >15' To 20', Add</i>	16.00	
		<i>For Elevated Installation >20' To 25', Add</i>	20.00	
		<i>For Elevated Installation >25' To 30', Add</i>	28.00	
		<i>For Elevated Installation >30' To 35', Add</i>	32.00	
		<i>For Elevated Installation >35' To 40', Add</i>	40.00	
		<i>For Elevated Installation >40', Add</i>	43.99	
		<i>For Work In Restricted Working Space, Add</i>	24.00	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1014	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,437.36	50.18
		<i>For Elevated Installation >10' To 15', Add</i>	10.04	
		<i>For Elevated Installation >15' To 20', Add</i>	20.07	
		<i>For Elevated Installation >20' To 25', Add</i>	25.09	
		<i>For Elevated Installation >25' To 30', Add</i>	35.13	
		<i>For Elevated Installation >30' To 35', Add</i>	40.14	
		<i>For Elevated Installation >35' To 40', Add</i>	50.18	
		<i>For Elevated Installation >40', Add</i>	55.20	
		<i>For Work In Restricted Working Space, Add</i>	30.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1015 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,620.48	68.36
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.19	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.70	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.21	
<i>For Work In Restricted Working Space, Add</i>	41.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02	
26 05 33 13-1016 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,929.40	100.36
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.14	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.25	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.36	
<i>For Elevated Installation >40', Add</i>	110.40	
<i>For Work In Restricted Working Space, Add</i>	60.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.22	
26 05 33 13-1017 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0843)</small>		
<small>Note: Suitable for use in hazardous locations. Class I, Div 2.</small>		
26 05 33 13-1018 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	128.65	34.91
<i>For Elevated Installation >10' To 15', Add</i>	6.98	
<i>For Elevated Installation >15' To 20', Add</i>	13.96	
<i>For Elevated Installation >20' To 25', Add</i>	17.46	
<i>For Elevated Installation >25' To 30', Add</i>	24.44	
<i>For Elevated Installation >30' To 35', Add</i>	27.93	
<i>For Elevated Installation >35' To 40', Add</i>	34.91	
<i>For Elevated Installation >40', Add</i>	38.40	
<i>For Work In Restricted Working Space, Add</i>	20.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.95	
26 05 33 13-1019 EA 3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	145.22	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	43.99	
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1020 EA 1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	178.92	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33 13-1021 EA 1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	232.89	53.09
<i>For Elevated Installation >10' To 15', Add</i>	10.62	
<i>For Elevated Installation >15' To 20', Add</i>	21.24	
<i>For Elevated Installation >20' To 25', Add</i>	26.55	
<i>For Elevated Installation >25' To 30', Add</i>	37.16	
<i>For Elevated Installation >30' To 35', Add</i>	42.47	
<i>For Elevated Installation >35' To 40', Add</i>	53.09	
<i>For Elevated Installation >40', Add</i>	58.40	
<i>For Work In Restricted Working Space, Add</i>	31.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 05 33 13-1022 EA 1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	271.08	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1023	EA 2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	367.75	69.81
	<i>For Elevated Installation >10' To 15', Add</i>	13.96	
	<i>For Elevated Installation >15' To 20', Add</i>	27.93	
	<i>For Elevated Installation >20' To 25', Add</i>	34.91	
	<i>For Elevated Installation >25' To 30', Add</i>	48.87	
	<i>For Elevated Installation >30' To 35', Add</i>	55.86	
	<i>For Elevated Installation >35' To 40', Add</i>	69.82	
	<i>For Elevated Installation >40', Add</i>	76.80	
	<i>For Work In Restricted Working Space, Add</i>	41.89	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.89	
26 05 33 13-1024	EA 2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	614.99	98.18
	<i>For Elevated Installation >10' To 15', Add</i>	19.64	
	<i>For Elevated Installation >15' To 20', Add</i>	39.27	
	<i>For Elevated Installation >20' To 25', Add</i>	49.09	
	<i>For Elevated Installation >25' To 30', Add</i>	68.73	
	<i>For Elevated Installation >30' To 35', Add</i>	78.55	
	<i>For Elevated Installation >35' To 40', Add</i>	98.19	
	<i>For Elevated Installation >40', Add</i>	108.00	
	<i>For Work In Restricted Working Space, Add</i>	58.91	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.91	
26 05 33 13-1025	EA 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	788.41	130.90
	<i>For Elevated Installation >10' To 15', Add</i>	26.18	
	<i>For Elevated Installation >15' To 20', Add</i>	52.36	
	<i>For Elevated Installation >20' To 25', Add</i>	65.46	
	<i>For Elevated Installation >25' To 30', Add</i>	91.64	
	<i>For Elevated Installation >30' To 35', Add</i>	104.73	
	<i>For Elevated Installation >35' To 40', Add</i>	130.91	
	<i>For Elevated Installation >40', Add</i>	144.00	
	<i>For Work In Restricted Working Space, Add</i>	78.55	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.55	
26 05 33 13-1026	EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,092.35	163.64
	<i>For Elevated Installation >10' To 15', Add</i>	32.73	
	<i>For Elevated Installation >15' To 20', Add</i>	65.45	
	<i>For Elevated Installation >20' To 25', Add</i>	81.82	
	<i>For Elevated Installation >25' To 30', Add</i>	114.54	
	<i>For Elevated Installation >30' To 35', Add</i>	130.90	
	<i>For Elevated Installation >35' To 40', Add</i>	163.63	
	<i>For Elevated Installation >40', Add</i>	179.99	
	<i>For Work In Restricted Working Space, Add</i>	98.18	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.18	
26 05 33 13-1027	EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,256.15	199.27
	<i>For Elevated Installation >10' To 15', Add</i>	39.85	
	<i>For Elevated Installation >15' To 20', Add</i>	79.71	
	<i>For Elevated Installation >20' To 25', Add</i>	99.64	
	<i>For Elevated Installation >25' To 30', Add</i>	139.49	
	<i>For Elevated Installation >30' To 35', Add</i>	159.42	
	<i>For Elevated Installation >35' To 40', Add</i>	199.27	
	<i>For Elevated Installation >40', Add</i>	219.20	
	<i>For Work In Restricted Working Space, Add</i>	119.56	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119.56	
26 05 33 13-1028	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0843)</small>		
	Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1029	EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	168.12	45.81
	<i>For Elevated Installation >10' To 15', Add</i>	9.16	
	<i>For Elevated Installation >15' To 20', Add</i>	18.33	
	<i>For Elevated Installation >20' To 25', Add</i>	22.91	
	<i>For Elevated Installation >25' To 30', Add</i>	32.07	
	<i>For Elevated Installation >30' To 35', Add</i>	36.65	
	<i>For Elevated Installation >35' To 40', Add</i>	45.82	
	<i>For Elevated Installation >40', Add</i>	50.40	
	<i>For Work In Restricted Working Space, Add</i>	27.49	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33 13-1030	EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	191.37	50.91
	<i>For Elevated Installation >10' To 15', Add</i>	10.18	
	<i>For Elevated Installation >15' To 20', Add</i>	20.36	
	<i>For Elevated Installation >20' To 25', Add</i>	25.45	
	<i>For Elevated Installation >25' To 30', Add</i>	35.63	
	<i>For Elevated Installation >30' To 35', Add</i>	40.72	
	<i>For Elevated Installation >35' To 40', Add</i>	50.91	
	<i>For Elevated Installation >40', Add</i>	56.00	
	<i>For Work In Restricted Working Space, Add</i>	30.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1031 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	232.63	56.00
<i>For Elevated Installation >10' To 15', Add</i>	11.20	
<i>For Elevated Installation >15' To 20', Add</i>	22.40	
<i>For Elevated Installation >20' To 25', Add</i>	28.00	
<i>For Elevated Installation >25' To 30', Add</i>	39.20	
<i>For Elevated Installation >30' To 35', Add</i>	44.80	
<i>For Elevated Installation >35' To 40', Add</i>	56.00	
<i>For Elevated Installation >40', Add</i>	61.59	
<i>For Work In Restricted Working Space, Add</i>	33.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.60	
26 05 33 13-1032 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	310.78	64.00
<i>For Elevated Installation >10' To 15', Add</i>	12.80	
<i>For Elevated Installation >15' To 20', Add</i>	25.60	
<i>For Elevated Installation >20' To 25', Add</i>	32.00	
<i>For Elevated Installation >25' To 30', Add</i>	44.80	
<i>For Elevated Installation >30' To 35', Add</i>	51.20	
<i>For Elevated Installation >35' To 40', Add</i>	64.00	
<i>For Elevated Installation >40', Add</i>	70.39	
<i>For Work In Restricted Working Space, Add</i>	38.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.40	
26 05 33 13-1033 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	366.22	69.81
<i>For Elevated Installation >10' To 15', Add</i>	13.96	
<i>For Elevated Installation >15' To 20', Add</i>	27.93	
<i>For Elevated Installation >20' To 25', Add</i>	34.91	
<i>For Elevated Installation >25' To 30', Add</i>	48.87	
<i>For Elevated Installation >30' To 35', Add</i>	55.86	
<i>For Elevated Installation >35' To 40', Add</i>	69.82	
<i>For Elevated Installation >40', Add</i>	76.80	
<i>For Work In Restricted Working Space, Add</i>	41.89	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.89	
26 05 33 13-1034 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	497.10	85.81
<i>For Elevated Installation >10' To 15', Add</i>	17.16	
<i>For Elevated Installation >15' To 20', Add</i>	34.33	
<i>For Elevated Installation >20' To 25', Add</i>	42.91	
<i>For Elevated Installation >25' To 30', Add</i>	60.07	
<i>For Elevated Installation >30' To 35', Add</i>	68.66	
<i>For Elevated Installation >35' To 40', Add</i>	85.82	
<i>For Elevated Installation >40', Add</i>	94.40	
<i>For Work In Restricted Working Space, Add</i>	51.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.49	
26 05 33 13-1035 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0843)</small>		
<i>Note: Suitable for use in hazardous locations. Class I, Div 2.</i>		
26 05 33 13-1036 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	147.90	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1037 EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	168.92	46.55
<i>For Elevated Installation >10' To 15', Add</i>	9.31	
<i>For Elevated Installation >15' To 20', Add</i>	18.62	
<i>For Elevated Installation >20' To 25', Add</i>	23.27	
<i>For Elevated Installation >25' To 30', Add</i>	32.58	
<i>For Elevated Installation >30' To 35', Add</i>	37.24	
<i>For Elevated Installation >35' To 40', Add</i>	46.55	
<i>For Elevated Installation >40', Add</i>	51.20	
<i>For Work In Restricted Working Space, Add</i>	27.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.93	
26 05 33 13-1038 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	203.41	50.91
<i>For Elevated Installation >10' To 15', Add</i>	10.18	
<i>For Elevated Installation >15' To 20', Add</i>	20.36	
<i>For Elevated Installation >20' To 25', Add</i>	25.45	
<i>For Elevated Installation >25' To 30', Add</i>	35.63	
<i>For Elevated Installation >30' To 35', Add</i>	40.72	
<i>For Elevated Installation >35' To 40', Add</i>	50.91	
<i>For Elevated Installation >40', Add</i>	56.00	
<i>For Work In Restricted Working Space, Add</i>	30.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.54	
26 05 33 13-1039 EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	259.39	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1040	EA	1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	306.62	64.00
		<i>For Elevated Installation >10' To 15', Add</i>	12.80	
		<i>For Elevated Installation >15' To 20', Add</i>	25.60	
		<i>For Elevated Installation >20' To 25', Add</i>	32.00	
		<i>For Elevated Installation >25' To 30', Add</i>	44.80	
		<i>For Elevated Installation >30' To 35', Add</i>	51.20	
		<i>For Elevated Installation >35' To 40', Add</i>	64.00	
		<i>For Elevated Installation >40', Add</i>	70.40	
		<i>For Work In Restricted Working Space, Add</i>	38.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.40	
26 05 33 13-1041	EA	2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	409.19	74.91
		<i>For Elevated Installation >10' To 15', Add</i>	14.98	
		<i>For Elevated Installation >15' To 20', Add</i>	29.96	
		<i>For Elevated Installation >20' To 25', Add</i>	37.45	
		<i>For Elevated Installation >25' To 30', Add</i>	52.43	
		<i>For Elevated Installation >30' To 35', Add</i>	59.92	
		<i>For Elevated Installation >35' To 40', Add</i>	74.91	
		<i>For Elevated Installation >40', Add</i>	82.40	
		<i>For Work In Restricted Working Space, Add</i>	44.94	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.94	
26 05 33 13-1042	EA	2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	656.32	109.09
		<i>For Elevated Installation >10' To 15', Add</i>	21.82	
		<i>For Elevated Installation >15' To 20', Add</i>	43.64	
		<i>For Elevated Installation >20' To 25', Add</i>	54.55	
		<i>For Elevated Installation >25' To 30', Add</i>	76.36	
		<i>For Elevated Installation >30' To 35', Add</i>	87.27	
		<i>For Elevated Installation >35' To 40', Add</i>	109.09	
		<i>For Elevated Installation >40', Add</i>	120.00	
		<i>For Work In Restricted Working Space, Add</i>	65.45	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.45	
26 05 33 13-1043	EA	3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	868.29	141.81
		<i>For Elevated Installation >10' To 15', Add</i>	28.36	
		<i>For Elevated Installation >15' To 20', Add</i>	56.72	
		<i>For Elevated Installation >20' To 25', Add</i>	70.91	
		<i>For Elevated Installation >25' To 30', Add</i>	99.27	
		<i>For Elevated Installation >30' To 35', Add</i>	113.45	
		<i>For Elevated Installation >35' To 40', Add</i>	141.81	
		<i>For Elevated Installation >40', Add</i>	155.99	
		<i>For Work In Restricted Working Space, Add</i>	85.09	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.09	
26 05 33 13-1044	EA	3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,189.44	174.54
		<i>For Elevated Installation >10' To 15', Add</i>	34.91	
		<i>For Elevated Installation >15' To 20', Add</i>	69.82	
		<i>For Elevated Installation >20' To 25', Add</i>	87.27	
		<i>For Elevated Installation >25' To 30', Add</i>	122.18	
		<i>For Elevated Installation >30' To 35', Add</i>	139.63	
		<i>For Elevated Installation >35' To 40', Add</i>	174.54	
		<i>For Elevated Installation >40', Add</i>	191.99	
		<i>For Work In Restricted Working Space, Add</i>	104.72	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.72	
26 05 33 13-1045	EA	4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,332.05	210.18
		<i>For Elevated Installation >10' To 15', Add</i>	42.04	
		<i>For Elevated Installation >15' To 20', Add</i>	84.07	
		<i>For Elevated Installation >20' To 25', Add</i>	105.09	
		<i>For Elevated Installation >25' To 30', Add</i>	147.13	
		<i>For Elevated Installation >30' To 35', Add</i>	168.15	
		<i>For Elevated Installation >35' To 40', Add</i>	210.19	
		<i>For Elevated Installation >40', Add</i>	231.20	
		<i>For Work In Restricted Working Space, Add</i>	126.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.11	
26 05 33 13-1046		Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined		
		<small>(26 05 33 13-0843)</small>		
26 05 33 13-1047	EA	1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	29.58	4.37
		<i>For Elevated Installation >10' To 15', Add</i>	0.87	
		<i>For Elevated Installation >15' To 20', Add</i>	1.74	
		<i>For Elevated Installation >20' To 25', Add</i>	2.18	
		<i>For Elevated Installation >25' To 30', Add</i>	3.05	
		<i>For Elevated Installation >30' To 35', Add</i>	3.49	
		<i>For Elevated Installation >35' To 40', Add</i>	4.36	
		<i>For Elevated Installation >40', Add</i>	4.80	
		<i>For Work In Restricted Working Space, Add</i>	2.62	
26 05 33 13-1048	EA	3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	33.23	5.09
		<i>For Elevated Installation >10' To 15', Add</i>	1.02	
		<i>For Elevated Installation >15' To 20', Add</i>	2.04	
		<i>For Elevated Installation >20' To 25', Add</i>	2.55	
		<i>For Elevated Installation >25' To 30', Add</i>	3.56	
		<i>For Elevated Installation >30' To 35', Add</i>	4.07	
		<i>For Elevated Installation >35' To 40', Add</i>	5.09	
		<i>For Elevated Installation >40', Add</i>	5.60	
		<i>For Work In Restricted Working Space, Add</i>	3.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1049 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	43.32	6.54
For Elevated Installation >10' To 15', Add	1.31	
For Elevated Installation >15' To 20', Add	2.62	
For Elevated Installation >20' To 25', Add	3.27	
For Elevated Installation >25' To 30', Add	4.58	
For Elevated Installation >30' To 35', Add	5.24	
For Elevated Installation >35' To 40', Add	6.55	
For Elevated Installation >40', Add	7.20	
For Work In Restricted Working Space, Add	3.93	
26 05 33 13-1050 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	55.64	8.00
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.20	
For Elevated Installation >20' To 25', Add	4.00	
For Elevated Installation >25' To 30', Add	5.60	
For Elevated Installation >30' To 35', Add	6.40	
For Elevated Installation >35' To 40', Add	8.00	
For Elevated Installation >40', Add	8.80	
For Work In Restricted Working Space, Add	4.80	
26 05 33 13-1051 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	62.38	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
26 05 33 13-1052 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	77.08	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
26 05 33 13-1053 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	99.44	12.37
For Elevated Installation >10' To 15', Add	2.47	
For Elevated Installation >15' To 20', Add	4.94	
For Elevated Installation >20' To 25', Add	6.18	
For Elevated Installation >25' To 30', Add	8.65	
For Elevated Installation >30' To 35', Add	9.89	
For Elevated Installation >35' To 40', Add	12.36	
For Elevated Installation >40', Add	13.60	
For Work In Restricted Working Space, Add	7.42	
26 05 33 13-1054 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	109.63	17.46
For Elevated Installation >10' To 15', Add	3.49	
For Elevated Installation >15' To 20', Add	6.98	
For Elevated Installation >20' To 25', Add	8.73	
For Elevated Installation >25' To 30', Add	12.22	
For Elevated Installation >30' To 35', Add	13.96	
For Elevated Installation >35' To 40', Add	17.46	
For Elevated Installation >40', Add	19.20	
For Work In Restricted Working Space, Add	10.47	
26 05 33 13-1055 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	132.96	19.63
For Elevated Installation >10' To 15', Add	3.93	
For Elevated Installation >15' To 20', Add	7.85	
For Elevated Installation >20' To 25', Add	9.82	
For Elevated Installation >25' To 30', Add	13.74	
For Elevated Installation >30' To 35', Add	15.71	
For Elevated Installation >35' To 40', Add	19.64	
For Elevated Installation >40', Add	21.60	
For Work In Restricted Working Space, Add	11.78	
26 05 33 13-1056 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	143.15	24.72
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.89	
For Elevated Installation >20' To 25', Add	12.37	
For Elevated Installation >25' To 30', Add	17.31	
For Elevated Installation >30' To 35', Add	19.78	
For Elevated Installation >35' To 40', Add	24.73	
For Elevated Installation >40', Add	27.20	
For Work In Restricted Working Space, Add	14.84	
26 05 33 13-1057 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies <small>(26 05 33 13-0843)</small>		
26 05 33 13-1058 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	144.46	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.94	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1059	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	160.27	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33	13-1060	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	187.00	45.81
			<i>For Elevated Installation >10' To 15', Add</i>	9.16	
			<i>For Elevated Installation >15' To 20', Add</i>	18.33	
			<i>For Elevated Installation >20' To 25', Add</i>	22.91	
			<i>For Elevated Installation >25' To 30', Add</i>	32.07	
			<i>For Elevated Installation >30' To 35', Add</i>	36.66	
			<i>For Elevated Installation >35' To 40', Add</i>	45.82	
			<i>For Elevated Installation >40', Add</i>	50.40	
			<i>For Work In Restricted Working Space, Add</i>	27.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33	13-1061	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	221.68	53.09
			<i>For Elevated Installation >10' To 15', Add</i>	10.62	
			<i>For Elevated Installation >15' To 20', Add</i>	21.24	
			<i>For Elevated Installation >20' To 25', Add</i>	26.55	
			<i>For Elevated Installation >25' To 30', Add</i>	37.16	
			<i>For Elevated Installation >30' To 35', Add</i>	42.47	
			<i>For Elevated Installation >35' To 40', Add</i>	53.09	
			<i>For Elevated Installation >40', Add</i>	58.40	
			<i>For Work In Restricted Working Space, Add</i>	31.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 05 33	13-1062	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	274.24	58.18
			<i>For Elevated Installation >10' To 15', Add</i>	11.64	
			<i>For Elevated Installation >15' To 20', Add</i>	23.27	
			<i>For Elevated Installation >20' To 25', Add</i>	29.09	
			<i>For Elevated Installation >25' To 30', Add</i>	40.73	
			<i>For Elevated Installation >30' To 35', Add</i>	46.54	
			<i>For Elevated Installation >35' To 40', Add</i>	58.18	
			<i>For Elevated Installation >40', Add</i>	64.00	
			<i>For Work In Restricted Working Space, Add</i>	34.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	
26 05 33	13-1063	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	332.21	69.81
			<i>For Elevated Installation >10' To 15', Add</i>	13.96	
			<i>For Elevated Installation >15' To 20', Add</i>	27.93	
			<i>For Elevated Installation >20' To 25', Add</i>	34.91	
			<i>For Elevated Installation >25' To 30', Add</i>	48.87	
			<i>For Elevated Installation >30' To 35', Add</i>	55.86	
			<i>For Elevated Installation >35' To 40', Add</i>	69.82	
			<i>For Elevated Installation >40', Add</i>	76.80	
			<i>For Work In Restricted Working Space, Add</i>	41.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.89	
26 05 33	13-1064	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	480.46	98.18
			<i>For Elevated Installation >10' To 15', Add</i>	19.64	
			<i>For Elevated Installation >15' To 20', Add</i>	39.27	
			<i>For Elevated Installation >20' To 25', Add</i>	49.09	
			<i>For Elevated Installation >25' To 30', Add</i>	68.73	
			<i>For Elevated Installation >30' To 35', Add</i>	78.54	
			<i>For Elevated Installation >35' To 40', Add</i>	98.18	
			<i>For Elevated Installation >40', Add</i>	108.00	
			<i>For Work In Restricted Working Space, Add</i>	58.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.91	
26 05 33	13-1065	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	617.13	130.90
			<i>For Elevated Installation >10' To 15', Add</i>	26.18	
			<i>For Elevated Installation >15' To 20', Add</i>	52.36	
			<i>For Elevated Installation >20' To 25', Add</i>	65.45	
			<i>For Elevated Installation >25' To 30', Add</i>	91.63	
			<i>For Elevated Installation >30' To 35', Add</i>	104.72	
			<i>For Elevated Installation >35' To 40', Add</i>	130.91	
			<i>For Elevated Installation >40', Add</i>	144.00	
			<i>For Work In Restricted Working Space, Add</i>	78.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.54	
26 05 33	13-1066	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,213.64	163.64
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.45	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.54	
			<i>For Elevated Installation >30' To 35', Add</i>	130.90	
			<i>For Elevated Installation >35' To 40', Add</i>	163.63	
			<i>For Elevated Installation >40', Add</i>	179.99	
			<i>For Work In Restricted Working Space, Add</i>	98.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1067 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,768.70	199.27
For Elevated Installation >10' To 15', Add	39.85	
For Elevated Installation >15' To 20', Add	79.71	
For Elevated Installation >20' To 25', Add	99.64	
For Elevated Installation >25' To 30', Add	139.49	
For Elevated Installation >30' To 35', Add	159.42	
For Elevated Installation >35' To 40', Add	199.27	
For Elevated Installation >40', Add	219.20	
For Work In Restricted Working Space, Add	119.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.56	
26 05 33 13-1068 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1069 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	241.61	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.94	
26 05 33 13-1070 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	260.73	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33 13-1071 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	297.77	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.49	
26 05 33 13-1072 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	333.71	53.09
For Elevated Installation >10' To 15', Add	10.62	
For Elevated Installation >15' To 20', Add	21.24	
For Elevated Installation >20' To 25', Add	26.55	
For Elevated Installation >25' To 30', Add	37.16	
For Elevated Installation >30' To 35', Add	42.47	
For Elevated Installation >35' To 40', Add	53.09	
For Elevated Installation >40', Add	58.40	
For Work In Restricted Working Space, Add	31.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.85	
26 05 33 13-1073 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	403.20	58.18
For Elevated Installation >10' To 15', Add	11.64	
For Elevated Installation >15' To 20', Add	23.27	
For Elevated Installation >20' To 25', Add	29.09	
For Elevated Installation >25' To 30', Add	40.73	
For Elevated Installation >30' To 35', Add	46.54	
For Elevated Installation >35' To 40', Add	58.18	
For Elevated Installation >40', Add	64.00	
For Work In Restricted Working Space, Add	34.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.91	
26 05 33 13-1074 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	454.89	69.81
For Elevated Installation >10' To 15', Add	13.96	
For Elevated Installation >15' To 20', Add	27.93	
For Elevated Installation >20' To 25', Add	34.91	
For Elevated Installation >25' To 30', Add	48.87	
For Elevated Installation >30' To 35', Add	55.86	
For Elevated Installation >35' To 40', Add	69.82	
For Elevated Installation >40', Add	76.80	
For Work In Restricted Working Space, Add	41.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.89	
26 05 33 13-1075 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	639.96	98.18
For Elevated Installation >10' To 15', Add	19.64	
For Elevated Installation >15' To 20', Add	39.27	
For Elevated Installation >20' To 25', Add	49.09	
For Elevated Installation >25' To 30', Add	68.73	
For Elevated Installation >30' To 35', Add	78.54	
For Elevated Installation >35' To 40', Add	98.18	
For Elevated Installation >40', Add	108.00	
For Work In Restricted Working Space, Add	58.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1076	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	890.29	130.90
	<i>For Elevated Installation >10' To 15', Add</i>	26.18	
	<i>For Elevated Installation >15' To 20', Add</i>	52.36	
	<i>For Elevated Installation >20' To 25', Add</i>	65.45	
	<i>For Elevated Installation >25' To 30', Add</i>	91.63	
	<i>For Elevated Installation >30' To 35', Add</i>	104.72	
	<i>For Elevated Installation >35' To 40', Add</i>	130.91	
	<i>For Elevated Installation >40', Add</i>	144.00	
	<i>For Work In Restricted Working Space, Add</i>	78.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.54	
26 05 33 13-1077	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,292.97	163.64
	<i>For Elevated Installation >10' To 15', Add</i>	32.73	
	<i>For Elevated Installation >15' To 20', Add</i>	65.45	
	<i>For Elevated Installation >20' To 25', Add</i>	81.82	
	<i>For Elevated Installation >25' To 30', Add</i>	114.54	
	<i>For Elevated Installation >30' To 35', Add</i>	130.90	
	<i>For Elevated Installation >35' To 40', Add</i>	163.63	
	<i>For Elevated Installation >40', Add</i>	179.99	
	<i>For Work In Restricted Working Space, Add</i>	98.18	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.18	
26 05 33 13-1078	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,872.50	199.27
	<i>For Elevated Installation >10' To 15', Add</i>	39.85	
	<i>For Elevated Installation >15' To 20', Add</i>	79.71	
	<i>For Elevated Installation >20' To 25', Add</i>	99.64	
	<i>For Elevated Installation >25' To 30', Add</i>	139.49	
	<i>For Elevated Installation >30' To 35', Add</i>	159.42	
	<i>For Elevated Installation >35' To 40', Add</i>	199.27	
	<i>For Elevated Installation >40', Add</i>	219.20	
	<i>For Work In Restricted Working Space, Add</i>	119.56	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119.56	
26 05 33 13-1079 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0843)</small>			
26 05 33 13-1080	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	194.84	34.91
	<i>For Elevated Installation >10' To 15', Add</i>	6.98	
	<i>For Elevated Installation >15' To 20', Add</i>	13.96	
	<i>For Elevated Installation >20' To 25', Add</i>	17.45	
	<i>For Elevated Installation >25' To 30', Add</i>	24.43	
	<i>For Elevated Installation >30' To 35', Add</i>	27.92	
	<i>For Elevated Installation >35' To 40', Add</i>	34.91	
	<i>For Elevated Installation >40', Add</i>	38.40	
	<i>For Work In Restricted Working Space, Add</i>	20.94	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.94	
26 05 33 13-1081	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	208.36	40.00
	<i>For Elevated Installation >10' To 15', Add</i>	8.00	
	<i>For Elevated Installation >15' To 20', Add</i>	16.00	
	<i>For Elevated Installation >20' To 25', Add</i>	20.00	
	<i>For Elevated Installation >25' To 30', Add</i>	28.00	
	<i>For Elevated Installation >30' To 35', Add</i>	32.00	
	<i>For Elevated Installation >35' To 40', Add</i>	40.00	
	<i>For Elevated Installation >40', Add</i>	44.00	
	<i>For Work In Restricted Working Space, Add</i>	24.00	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1082	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	239.35	45.81
	<i>For Elevated Installation >10' To 15', Add</i>	9.16	
	<i>For Elevated Installation >15' To 20', Add</i>	18.33	
	<i>For Elevated Installation >20' To 25', Add</i>	22.91	
	<i>For Elevated Installation >25' To 30', Add</i>	32.07	
	<i>For Elevated Installation >30' To 35', Add</i>	36.66	
	<i>For Elevated Installation >35' To 40', Add</i>	45.82	
	<i>For Elevated Installation >40', Add</i>	50.40	
	<i>For Work In Restricted Working Space, Add</i>	27.49	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33 13-1083	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	267.45	53.09
	<i>For Elevated Installation >10' To 15', Add</i>	10.62	
	<i>For Elevated Installation >15' To 20', Add</i>	21.24	
	<i>For Elevated Installation >20' To 25', Add</i>	26.55	
	<i>For Elevated Installation >25' To 30', Add</i>	37.16	
	<i>For Elevated Installation >30' To 35', Add</i>	42.47	
	<i>For Elevated Installation >35' To 40', Add</i>	53.09	
	<i>For Elevated Installation >40', Add</i>	58.40	
	<i>For Work In Restricted Working Space, Add</i>	31.85	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 05 33 13-1084	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	364.63	58.18
	<i>For Elevated Installation >10' To 15', Add</i>	11.64	
	<i>For Elevated Installation >15' To 20', Add</i>	23.27	
	<i>For Elevated Installation >20' To 25', Add</i>	29.09	
	<i>For Elevated Installation >25' To 30', Add</i>	40.73	
	<i>For Elevated Installation >30' To 35', Add</i>	46.54	
	<i>For Elevated Installation >35' To 40', Add</i>	58.18	
	<i>For Elevated Installation >40', Add</i>	64.00	
	<i>For Work In Restricted Working Space, Add</i>	34.91	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1085 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	457.22	69.81
For Elevated Installation >10' To 15', Add	13.96	
For Elevated Installation >15' To 20', Add	27.93	
For Elevated Installation >20' To 25', Add	34.91	
For Elevated Installation >25' To 30', Add	48.87	
For Elevated Installation >30' To 35', Add	55.86	
For Elevated Installation >35' To 40', Add	69.82	
For Elevated Installation >40', Add	76.80	
For Work In Restricted Working Space, Add	41.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.89	
26 05 33 13-1086 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	707.79	98.18
For Elevated Installation >10' To 15', Add	19.64	
For Elevated Installation >15' To 20', Add	39.27	
For Elevated Installation >20' To 25', Add	49.09	
For Elevated Installation >25' To 30', Add	68.73	
For Elevated Installation >30' To 35', Add	78.54	
For Elevated Installation >35' To 40', Add	98.18	
For Elevated Installation >40', Add	108.00	
For Work In Restricted Working Space, Add	58.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.91	
26 05 33 13-1087 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,028.30	130.90
For Elevated Installation >10' To 15', Add	26.18	
For Elevated Installation >15' To 20', Add	52.36	
For Elevated Installation >20' To 25', Add	65.45	
For Elevated Installation >25' To 30', Add	91.63	
For Elevated Installation >30' To 35', Add	104.72	
For Elevated Installation >35' To 40', Add	130.91	
For Elevated Installation >40', Add	144.00	
For Work In Restricted Working Space, Add	78.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.54	
26 05 33 13-1088 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,292.97	163.64
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
For Work In Restricted Working Space, Add	98.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.18	
26 05 33 13-1089 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-0843)</small>		
26 05 33 13-1090 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	255.34	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.94	
26 05 33 13-1091 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	283.63	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33 13-1092 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	350.75	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.49	
26 05 33 13-1093 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	431.69	53.09
For Elevated Installation >10' To 15', Add	10.62	
For Elevated Installation >15' To 20', Add	21.24	
For Elevated Installation >20' To 25', Add	26.55	
For Elevated Installation >25' To 30', Add	37.16	
For Elevated Installation >30' To 35', Add	42.47	
For Elevated Installation >35' To 40', Add	53.09	
For Elevated Installation >40', Add	58.40	
For Work In Restricted Working Space, Add	31.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.85	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1094	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	596.67	58.18
	<i>For Elevated Installation >10' To 15', Add</i>	11.64	
	<i>For Elevated Installation >15' To 20', Add</i>	23.27	
	<i>For Elevated Installation >20' To 25', Add</i>	29.09	
	<i>For Elevated Installation >25' To 30', Add</i>	40.73	
	<i>For Elevated Installation >30' To 35', Add</i>	46.54	
	<i>For Elevated Installation >35' To 40', Add</i>	58.18	
	<i>For Elevated Installation >40', Add</i>	64.00	
	<i>For Work In Restricted Working Space, Add</i>	34.91	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	
26 05 33 13-1095	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	715.12	69.81
	<i>For Elevated Installation >10' To 15', Add</i>	13.96	
	<i>For Elevated Installation >15' To 20', Add</i>	27.93	
	<i>For Elevated Installation >20' To 25', Add</i>	34.91	
	<i>For Elevated Installation >25' To 30', Add</i>	48.87	
	<i>For Elevated Installation >30' To 35', Add</i>	55.86	
	<i>For Elevated Installation >35' To 40', Add</i>	69.82	
	<i>For Elevated Installation >40', Add</i>	76.80	
	<i>For Work In Restricted Working Space, Add</i>	41.89	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.89	
26 05 33 13-1096 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0843)			
26 05 33 13-1097	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	50.71	13.98
	<i>For Elevated Installation >10' To 15', Add</i>	2.80	
	<i>For Elevated Installation >15' To 20', Add</i>	5.60	
	<i>For Elevated Installation >20' To 25', Add</i>	7.00	
	<i>For Elevated Installation >25' To 30', Add</i>	9.79	
	<i>For Elevated Installation >30' To 35', Add</i>	11.19	
	<i>For Elevated Installation >35' To 40', Add</i>	13.99	
	<i>For Elevated Installation >40', Add</i>	15.39	
	<i>For Work In Restricted Working Space, Add</i>	8.39	
26 05 33 13-1098	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	66.88	16.78
	<i>For Elevated Installation >10' To 15', Add</i>	3.36	
	<i>For Elevated Installation >15' To 20', Add</i>	6.71	
	<i>For Elevated Installation >20' To 25', Add</i>	8.39	
	<i>For Elevated Installation >25' To 30', Add</i>	11.75	
	<i>For Elevated Installation >30' To 35', Add</i>	13.43	
	<i>For Elevated Installation >35' To 40', Add</i>	16.79	
	<i>For Elevated Installation >40', Add</i>	18.46	
	<i>For Work In Restricted Working Space, Add</i>	10.07	
26 05 33 13-1099	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	85.20	22.37
	<i>For Elevated Installation >10' To 15', Add</i>	4.48	
	<i>For Elevated Installation >15' To 20', Add</i>	8.95	
	<i>For Elevated Installation >20' To 25', Add</i>	11.19	
	<i>For Elevated Installation >25' To 30', Add</i>	15.67	
	<i>For Elevated Installation >30' To 35', Add</i>	17.90	
	<i>For Elevated Installation >35' To 40', Add</i>	22.38	
	<i>For Elevated Installation >40', Add</i>	24.62	
	<i>For Work In Restricted Working Space, Add</i>	13.43	
26 05 33 13-1100	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	116.64	27.98
	<i>For Elevated Installation >10' To 15', Add</i>	5.59	
	<i>For Elevated Installation >15' To 20', Add</i>	11.19	
	<i>For Elevated Installation >20' To 25', Add</i>	13.99	
	<i>For Elevated Installation >25' To 30', Add</i>	19.58	
	<i>For Elevated Installation >30' To 35', Add</i>	22.38	
	<i>For Elevated Installation >35' To 40', Add</i>	27.97	
	<i>For Elevated Installation >40', Add</i>	30.77	
	<i>For Work In Restricted Working Space, Add</i>	16.78	
26 05 33 13-1101	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	152.40	33.57
	<i>For Elevated Installation >10' To 15', Add</i>	6.71	
	<i>For Elevated Installation >15' To 20', Add</i>	13.43	
	<i>For Elevated Installation >20' To 25', Add</i>	16.78	
	<i>For Elevated Installation >25' To 30', Add</i>	23.50	
	<i>For Elevated Installation >30' To 35', Add</i>	26.85	
	<i>For Elevated Installation >35' To 40', Add</i>	33.57	
	<i>For Elevated Installation >40', Add</i>	36.92	
	<i>For Work In Restricted Working Space, Add</i>	20.14	
26 05 33 13-1102	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	258.61	39.16
	<i>For Elevated Installation >10' To 15', Add</i>	7.83	
	<i>For Elevated Installation >15' To 20', Add</i>	15.66	
	<i>For Elevated Installation >20' To 25', Add</i>	19.58	
	<i>For Elevated Installation >25' To 30', Add</i>	27.41	
	<i>For Elevated Installation >30' To 35', Add</i>	31.33	
	<i>For Elevated Installation >35' To 40', Add</i>	39.16	
	<i>For Elevated Installation >40', Add</i>	43.08	
	<i>For Work In Restricted Working Space, Add</i>	23.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1103 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	373.37	44.76
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Work In Restricted Working Space, Add	26.85	
26 05 33 13-1104 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	464.71	50.35
For Elevated Installation >10' To 15', Add	10.07	
For Elevated Installation >15' To 20', Add	20.14	
For Elevated Installation >20' To 25', Add	25.18	
For Elevated Installation >25' To 30', Add	35.25	
For Elevated Installation >30' To 35', Add	40.28	
For Elevated Installation >35' To 40', Add	50.35	
For Elevated Installation >40', Add	55.39	
For Work In Restricted Working Space, Add	30.21	
26 05 33 13-1105 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	644.56	58.74
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.50	
For Elevated Installation >20' To 25', Add	29.37	
For Elevated Installation >25' To 30', Add	41.12	
For Elevated Installation >30' To 35', Add	46.99	
For Elevated Installation >35' To 40', Add	58.74	
For Elevated Installation >40', Add	64.61	
For Work In Restricted Working Space, Add	35.24	
26 05 33 13-1106 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	781.77	67.13
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.85	
For Elevated Installation >20' To 25', Add	33.57	
For Elevated Installation >25' To 30', Add	46.99	
For Elevated Installation >30' To 35', Add	53.71	
For Elevated Installation >35' To 40', Add	67.14	
For Elevated Installation >40', Add	73.85	
For Work In Restricted Working Space, Add	40.28	
26 05 33 13-1107 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,250.99	106.29
For Elevated Installation >10' To 15', Add	21.26	
For Elevated Installation >15' To 20', Add	42.52	
For Elevated Installation >20' To 25', Add	53.15	
For Elevated Installation >25' To 30', Add	74.40	
For Elevated Installation >30' To 35', Add	85.03	
For Elevated Installation >35' To 40', Add	106.29	
For Elevated Installation >40', Add	116.92	
For Work In Restricted Working Space, Add	63.77	
26 05 33 13-1108 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,713.50	162.23
For Elevated Installation >10' To 15', Add	32.45	
For Elevated Installation >15' To 20', Add	64.89	
For Elevated Installation >20' To 25', Add	81.12	
For Elevated Installation >25' To 30', Add	113.56	
For Elevated Installation >30' To 35', Add	129.79	
For Elevated Installation >35' To 40', Add	162.24	
For Elevated Installation >40', Add	178.46	
For Work In Restricted Working Space, Add	97.34	
26 05 33 13-1109 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1110 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	184.17	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
26 05 33 13-1111 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	217.19	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
26 05 33 13-1112 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	240.32	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1113	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	342.78	53.09
			<i>For Elevated Installation >10' To 15', Add</i>	10.62	
			<i>For Elevated Installation >15' To 20', Add</i>	21.24	
			<i>For Elevated Installation >20' To 25', Add</i>	26.55	
			<i>For Elevated Installation >25' To 30', Add</i>	37.16	
			<i>For Elevated Installation >30' To 35', Add</i>	42.47	
			<i>For Elevated Installation >35' To 40', Add</i>	53.09	
			<i>For Elevated Installation >40', Add</i>	58.40	
			<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1114	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	449.75	58.18
			<i>For Elevated Installation >10' To 15', Add</i>	11.64	
			<i>For Elevated Installation >15' To 20', Add</i>	23.27	
			<i>For Elevated Installation >20' To 25', Add</i>	29.09	
			<i>For Elevated Installation >25' To 30', Add</i>	40.73	
			<i>For Elevated Installation >30' To 35', Add</i>	46.54	
			<i>For Elevated Installation >35' To 40', Add</i>	58.18	
			<i>For Elevated Installation >40', Add</i>	64.00	
			<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1115	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	486.89	69.81
			<i>For Elevated Installation >10' To 15', Add</i>	13.96	
			<i>For Elevated Installation >15' To 20', Add</i>	27.93	
			<i>For Elevated Installation >20' To 25', Add</i>	34.91	
			<i>For Elevated Installation >25' To 30', Add</i>	48.87	
			<i>For Elevated Installation >30' To 35', Add</i>	55.86	
			<i>For Elevated Installation >35' To 40', Add</i>	69.82	
			<i>For Elevated Installation >40', Add</i>	76.80	
			<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1116	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,136.21	96.72
			<i>For Elevated Installation >10' To 15', Add</i>	19.35	
			<i>For Elevated Installation >15' To 20', Add</i>	38.69	
			<i>For Elevated Installation >20' To 25', Add</i>	48.36	
			<i>For Elevated Installation >25' To 30', Add</i>	67.71	
			<i>For Elevated Installation >30' To 35', Add</i>	77.38	
			<i>For Elevated Installation >35' To 40', Add</i>	96.73	
			<i>For Elevated Installation >40', Add</i>	106.40	
			<i>For Work In Restricted Working Space, Add</i>	58.04	
26 05 33 13-1117	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,204.80	130.90
			<i>For Elevated Installation >10' To 15', Add</i>	26.18	
			<i>For Elevated Installation >15' To 20', Add</i>	52.36	
			<i>For Elevated Installation >20' To 25', Add</i>	65.46	
			<i>For Elevated Installation >25' To 30', Add</i>	91.64	
			<i>For Elevated Installation >30' To 35', Add</i>	104.73	
			<i>For Elevated Installation >35' To 40', Add</i>	130.91	
			<i>For Elevated Installation >40', Add</i>	144.00	
			<i>For Work In Restricted Working Space, Add</i>	78.55	
26 05 33 13-1118	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,960.67	163.64
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.46	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.55	
			<i>For Elevated Installation >30' To 35', Add</i>	130.91	
			<i>For Elevated Installation >35' To 40', Add</i>	163.64	
			<i>For Elevated Installation >40', Add</i>	180.00	
			<i>For Work In Restricted Working Space, Add</i>	98.18	
26 05 33 13-1119	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,047.80	199.27
			<i>For Elevated Installation >10' To 15', Add</i>	39.86	
			<i>For Elevated Installation >15' To 20', Add</i>	79.71	
			<i>For Elevated Installation >20' To 25', Add</i>	99.64	
			<i>For Elevated Installation >25' To 30', Add</i>	139.50	
			<i>For Elevated Installation >30' To 35', Add</i>	159.43	
			<i>For Elevated Installation >35' To 40', Add</i>	199.29	
			<i>For Elevated Installation >40', Add</i>	219.21	
			<i>For Work In Restricted Working Space, Add</i>	119.57	
26 05 33 13-1120			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1121	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	265.56	34.91
			<i>For Elevated Installation >10' To 15', Add</i>	6.98	
			<i>For Elevated Installation >15' To 20', Add</i>	13.96	
			<i>For Elevated Installation >20' To 25', Add</i>	17.45	
			<i>For Elevated Installation >25' To 30', Add</i>	24.43	
			<i>For Elevated Installation >30' To 35', Add</i>	27.92	
			<i>For Elevated Installation >35' To 40', Add</i>	34.91	
			<i>For Elevated Installation >40', Add</i>	38.40	
			<i>For Work In Restricted Working Space, Add</i>	20.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1122 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	302.58	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1123 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	590.46	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1124 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	620.40	53.09
<i>For Elevated Installation >10' To 15', Add</i>	10.62	
<i>For Elevated Installation >15' To 20', Add</i>	21.24	
<i>For Elevated Installation >20' To 25', Add</i>	26.55	
<i>For Elevated Installation >25' To 30', Add</i>	37.16	
<i>For Elevated Installation >30' To 35', Add</i>	42.47	
<i>For Elevated Installation >35' To 40', Add</i>	53.09	
<i>For Elevated Installation >40', Add</i>	58.40	
<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1125 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	845.23	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1126 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	903.08	69.81
<i>For Elevated Installation >10' To 15', Add</i>	13.96	
<i>For Elevated Installation >15' To 20', Add</i>	27.93	
<i>For Elevated Installation >20' To 25', Add</i>	34.91	
<i>For Elevated Installation >25' To 30', Add</i>	48.87	
<i>For Elevated Installation >30' To 35', Add</i>	55.86	
<i>For Elevated Installation >35' To 40', Add</i>	69.82	
<i>For Elevated Installation >40', Add</i>	76.80	
<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1127 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,729.32	98.18
<i>For Elevated Installation >10' To 15', Add</i>	19.64	
<i>For Elevated Installation >15' To 20', Add</i>	39.27	
<i>For Elevated Installation >20' To 25', Add</i>	49.09	
<i>For Elevated Installation >25' To 30', Add</i>	68.73	
<i>For Elevated Installation >30' To 35', Add</i>	78.54	
<i>For Elevated Installation >35' To 40', Add</i>	98.18	
<i>For Elevated Installation >40', Add</i>	108.00	
<i>For Work In Restricted Working Space, Add</i>	58.91	
26 05 33 13-1128 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,825.07	130.90
<i>For Elevated Installation >10' To 15', Add</i>	26.18	
<i>For Elevated Installation >15' To 20', Add</i>	52.36	
<i>For Elevated Installation >20' To 25', Add</i>	65.45	
<i>For Elevated Installation >25' To 30', Add</i>	91.63	
<i>For Elevated Installation >30' To 35', Add</i>	104.72	
<i>For Elevated Installation >35' To 40', Add</i>	130.91	
<i>For Elevated Installation >40', Add</i>	144.00	
<i>For Work In Restricted Working Space, Add</i>	78.54	
26 05 33 13-1129 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,668.20	163.64
<i>For Elevated Installation >10' To 15', Add</i>	32.73	
<i>For Elevated Installation >15' To 20', Add</i>	65.45	
<i>For Elevated Installation >20' To 25', Add</i>	81.82	
<i>For Elevated Installation >25' To 30', Add</i>	114.54	
<i>For Elevated Installation >30' To 35', Add</i>	130.90	
<i>For Elevated Installation >35' To 40', Add</i>	163.63	
<i>For Elevated Installation >40', Add</i>	179.99	
<i>For Work In Restricted Working Space, Add</i>	98.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1130	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	3,024.04	199.27
			<i>For Elevated Installation >10' To 15', Add</i>	39.85	
			<i>For Elevated Installation >15' To 20', Add</i>	79.71	
			<i>For Elevated Installation >20' To 25', Add</i>	99.64	
			<i>For Elevated Installation >25' To 30', Add</i>	139.49	
			<i>For Elevated Installation >30' To 35', Add</i>	159.42	
			<i>For Elevated Installation >35' To 40', Add</i>	199.27	
			<i>For Elevated Installation >40', Add</i>	219.20	
			<i>For Work In Restricted Working Space, Add</i>	119.56	
26 05 33 13-1131			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1132	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	102.82	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1133	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	119.91	22.54
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.02	
			<i>For Elevated Installation >20' To 25', Add</i>	11.27	
			<i>For Elevated Installation >25' To 30', Add</i>	15.78	
			<i>For Elevated Installation >30' To 35', Add</i>	18.04	
			<i>For Elevated Installation >35' To 40', Add</i>	22.55	
			<i>For Elevated Installation >40', Add</i>	24.80	
			<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-1134	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	142.99	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-1135	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	168.68	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1136			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1137	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	81.61	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1138	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	94.46	22.54
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.02	
			<i>For Elevated Installation >20' To 25', Add</i>	11.27	
			<i>For Elevated Installation >25' To 30', Add</i>	15.78	
			<i>For Elevated Installation >30' To 35', Add</i>	18.04	
			<i>For Elevated Installation >35' To 40', Add</i>	22.55	
			<i>For Elevated Installation >40', Add</i>	24.80	
			<i>For Work In Restricted Working Space, Add</i>	13.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1139 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	130.59	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-1140 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	168.78	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1141 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	205.22	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-1142 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	293.04	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1143 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	399.72	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33 13-1144 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0843)		
26 05 33 13-1145 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	102.86	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.55	
<i>For Elevated Installation >35' To 40', Add</i>	18.19	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1146 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	122.84	22.54
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.02	
<i>For Elevated Installation >20' To 25', Add</i>	11.27	
<i>For Elevated Installation >25' To 30', Add</i>	15.78	
<i>For Elevated Installation >30' To 35', Add</i>	18.04	
<i>For Elevated Installation >35' To 40', Add</i>	22.55	
<i>For Elevated Installation >40', Add</i>	24.80	
<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-1147 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	143.02	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1148	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	168.73	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1149			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1150	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	81.69	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1151	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	94.46	22.54
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.02	
			<i>For Elevated Installation >20' To 25', Add</i>	11.27	
			<i>For Elevated Installation >25' To 30', Add</i>	15.78	
			<i>For Elevated Installation >30' To 35', Add</i>	18.04	
			<i>For Elevated Installation >35' To 40', Add</i>	22.55	
			<i>For Elevated Installation >40', Add</i>	24.80	
			<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	121.81	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-1153	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	151.72	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1154	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	177.45	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-1155	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	204.09	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1156	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	377.04	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1157 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	433.95	68.36
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	
<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33 13-1158 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	468.75	77.09
<i>For Elevated Installation >10' To 15', Add</i>	15.42	
<i>For Elevated Installation >15' To 20', Add</i>	30.84	
<i>For Elevated Installation >20' To 25', Add</i>	38.55	
<i>For Elevated Installation >25' To 30', Add</i>	53.96	
<i>For Elevated Installation >30' To 35', Add</i>	61.67	
<i>For Elevated Installation >35' To 40', Add</i>	77.09	
<i>For Elevated Installation >40', Add</i>	84.80	
<i>For Work In Restricted Working Space, Add</i>	46.25	
26 05 33 13-1159 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	579.20	100.36
<i>For Elevated Installation >10' To 15', Add</i>	20.07	
<i>For Elevated Installation >15' To 20', Add</i>	40.15	
<i>For Elevated Installation >20' To 25', Add</i>	50.18	
<i>For Elevated Installation >25' To 30', Add</i>	70.26	
<i>For Elevated Installation >30' To 35', Add</i>	80.29	
<i>For Elevated Installation >35' To 40', Add</i>	100.37	
<i>For Elevated Installation >40', Add</i>	110.40	
<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33 13-1160 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0843)</small>		
26 05 33 13-1161 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	170.44	34.91
<i>For Elevated Installation >10' To 15', Add</i>	6.98	
<i>For Elevated Installation >15' To 20', Add</i>	13.96	
<i>For Elevated Installation >20' To 25', Add</i>	17.45	
<i>For Elevated Installation >25' To 30', Add</i>	24.43	
<i>For Elevated Installation >30' To 35', Add</i>	27.92	
<i>For Elevated Installation >35' To 40', Add</i>	34.91	
<i>For Elevated Installation >40', Add</i>	38.40	
<i>For Work In Restricted Working Space, Add</i>	20.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.94	
26 05 33 13-1162 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	184.58	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-1163 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	202.41	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.49	
26 05 33 13-1164 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	270.41	53.09
<i>For Elevated Installation >10' To 15', Add</i>	10.62	
<i>For Elevated Installation >15' To 20', Add</i>	21.24	
<i>For Elevated Installation >20' To 25', Add</i>	26.55	
<i>For Elevated Installation >25' To 30', Add</i>	37.16	
<i>For Elevated Installation >30' To 35', Add</i>	42.47	
<i>For Elevated Installation >35' To 40', Add</i>	53.09	
<i>For Elevated Installation >40', Add</i>	58.40	
<i>For Work In Restricted Working Space, Add</i>	31.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.85	
26 05 33 13-1165 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	342.48	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1166			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover		
26 05 33 13-1167	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	204.04	34.91
			<i>For Elevated Installation >10' To 15', Add</i>	6.98	
			<i>For Elevated Installation >15' To 20', Add</i>	13.96	
			<i>For Elevated Installation >20' To 25', Add</i>	17.45	
			<i>For Elevated Installation >25' To 30', Add</i>	24.43	
			<i>For Elevated Installation >30' To 35', Add</i>	27.92	
			<i>For Elevated Installation >35' To 40', Add</i>	34.91	
			<i>For Elevated Installation >40', Add</i>	38.40	
			<i>For Work In Restricted Working Space, Add</i>	20.94	
26 05 33 13-1168	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	220.24	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1169	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	257.28	45.81
			<i>For Elevated Installation >10' To 15', Add</i>	9.16	
			<i>For Elevated Installation >15' To 20', Add</i>	18.33	
			<i>For Elevated Installation >20' To 25', Add</i>	22.91	
			<i>For Elevated Installation >25' To 30', Add</i>	32.07	
			<i>For Elevated Installation >30' To 35', Add</i>	36.66	
			<i>For Elevated Installation >35' To 40', Add</i>	45.82	
			<i>For Elevated Installation >40', Add</i>	50.40	
			<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1170	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	365.66	53.09
			<i>For Elevated Installation >10' To 15', Add</i>	10.62	
			<i>For Elevated Installation >15' To 20', Add</i>	21.24	
			<i>For Elevated Installation >20' To 25', Add</i>	26.55	
			<i>For Elevated Installation >25' To 30', Add</i>	37.16	
			<i>For Elevated Installation >30' To 35', Add</i>	42.47	
			<i>For Elevated Installation >35' To 40', Add</i>	53.09	
			<i>For Elevated Installation >40', Add</i>	58.40	
			<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1171	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	589.27	58.18
			<i>For Elevated Installation >10' To 15', Add</i>	11.64	
			<i>For Elevated Installation >15' To 20', Add</i>	23.27	
			<i>For Elevated Installation >20' To 25', Add</i>	29.09	
			<i>For Elevated Installation >25' To 30', Add</i>	40.73	
			<i>For Elevated Installation >30' To 35', Add</i>	46.54	
			<i>For Elevated Installation >35' To 40', Add</i>	58.18	
			<i>For Elevated Installation >40', Add</i>	64.00	
			<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1172	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	637.90	69.81
			<i>For Elevated Installation >10' To 15', Add</i>	13.96	
			<i>For Elevated Installation >15' To 20', Add</i>	27.93	
			<i>For Elevated Installation >20' To 25', Add</i>	34.91	
			<i>For Elevated Installation >25' To 30', Add</i>	48.87	
			<i>For Elevated Installation >30' To 35', Add</i>	55.86	
			<i>For Elevated Installation >35' To 40', Add</i>	69.82	
			<i>For Elevated Installation >40', Add</i>	76.80	
			<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1173			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover		
26 05 33 13-1174	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	223.10	34.91
			<i>For Elevated Installation >10' To 15', Add</i>	6.98	
			<i>For Elevated Installation >15' To 20', Add</i>	13.96	
			<i>For Elevated Installation >20' To 25', Add</i>	17.45	
			<i>For Elevated Installation >25' To 30', Add</i>	24.43	
			<i>For Elevated Installation >30' To 35', Add</i>	27.92	
			<i>For Elevated Installation >35' To 40', Add</i>	34.91	
			<i>For Elevated Installation >40', Add</i>	38.40	
			<i>For Work In Restricted Working Space, Add</i>	20.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1175 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	252.05	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1176 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	275.43	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1177 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	384.09	53.09
<i>For Elevated Installation >10' To 15', Add</i>	10.62	
<i>For Elevated Installation >15' To 20', Add</i>	21.24	
<i>For Elevated Installation >20' To 25', Add</i>	26.55	
<i>For Elevated Installation >25' To 30', Add</i>	37.16	
<i>For Elevated Installation >30' To 35', Add</i>	42.47	
<i>For Elevated Installation >35' To 40', Add</i>	53.09	
<i>For Elevated Installation >40', Add</i>	58.40	
<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1178 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	633.25	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1179 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	678.27	69.81
<i>For Elevated Installation >10' To 15', Add</i>	13.96	
<i>For Elevated Installation >15' To 20', Add</i>	27.93	
<i>For Elevated Installation >20' To 25', Add</i>	34.91	
<i>For Elevated Installation >25' To 30', Add</i>	48.87	
<i>For Elevated Installation >30' To 35', Add</i>	55.86	
<i>For Elevated Installation >35' To 40', Add</i>	69.82	
<i>For Elevated Installation >40', Add</i>	76.80	
<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1180 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0843)</small>		
26 05 33 13-1181 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	223.25	34.91
<i>For Elevated Installation >10' To 15', Add</i>	6.98	
<i>For Elevated Installation >15' To 20', Add</i>	13.96	
<i>For Elevated Installation >20' To 25', Add</i>	17.45	
<i>For Elevated Installation >25' To 30', Add</i>	24.43	
<i>For Elevated Installation >30' To 35', Add</i>	27.92	
<i>For Elevated Installation >35' To 40', Add</i>	34.91	
<i>For Elevated Installation >40', Add</i>	38.40	
<i>For Work In Restricted Working Space, Add</i>	20.94	
26 05 33 13-1182 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	246.42	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1183 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	292.94	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1184	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	398.14	53.09
			<i>For Elevated Installation >10' To 15', Add</i>	10.62	
			<i>For Elevated Installation >15' To 20', Add</i>	21.24	
			<i>For Elevated Installation >20' To 25', Add</i>	26.55	
			<i>For Elevated Installation >25' To 30', Add</i>	37.16	
			<i>For Elevated Installation >30' To 35', Add</i>	42.47	
			<i>For Elevated Installation >35' To 40', Add</i>	53.09	
			<i>For Elevated Installation >40', Add</i>	58.40	
			<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1185	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	654.21	58.18
			<i>For Elevated Installation >10' To 15', Add</i>	11.64	
			<i>For Elevated Installation >15' To 20', Add</i>	23.27	
			<i>For Elevated Installation >20' To 25', Add</i>	29.09	
			<i>For Elevated Installation >25' To 30', Add</i>	40.73	
			<i>For Elevated Installation >30' To 35', Add</i>	46.54	
			<i>For Elevated Installation >35' To 40', Add</i>	58.18	
			<i>For Elevated Installation >40', Add</i>	64.00	
			<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1186	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	704.10	69.81
			<i>For Elevated Installation >10' To 15', Add</i>	13.96	
			<i>For Elevated Installation >15' To 20', Add</i>	27.93	
			<i>For Elevated Installation >20' To 25', Add</i>	34.91	
			<i>For Elevated Installation >25' To 30', Add</i>	48.87	
			<i>For Elevated Installation >30' To 35', Add</i>	55.86	
			<i>For Elevated Installation >35' To 40', Add</i>	69.82	
			<i>For Elevated Installation >40', Add</i>	76.80	
			<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1187 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0843)</small>					
26 05 33 13-1188	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	276.04	34.91
			<i>For Elevated Installation >10' To 15', Add</i>	6.98	
			<i>For Elevated Installation >15' To 20', Add</i>	13.96	
			<i>For Elevated Installation >20' To 25', Add</i>	17.45	
			<i>For Elevated Installation >25' To 30', Add</i>	24.43	
			<i>For Elevated Installation >30' To 35', Add</i>	27.92	
			<i>For Elevated Installation >35' To 40', Add</i>	34.91	
			<i>For Elevated Installation >40', Add</i>	38.40	
			<i>For Work In Restricted Working Space, Add</i>	20.94	
26 05 33 13-1189	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	305.10	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1190	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	331.10	45.81
			<i>For Elevated Installation >10' To 15', Add</i>	9.16	
			<i>For Elevated Installation >15' To 20', Add</i>	18.33	
			<i>For Elevated Installation >20' To 25', Add</i>	22.91	
			<i>For Elevated Installation >25' To 30', Add</i>	32.07	
			<i>For Elevated Installation >30' To 35', Add</i>	36.66	
			<i>For Elevated Installation >35' To 40', Add</i>	45.82	
			<i>For Elevated Installation >40', Add</i>	50.40	
			<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1191	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	824.76	53.09
			<i>For Elevated Installation >10' To 15', Add</i>	10.62	
			<i>For Elevated Installation >15' To 20', Add</i>	21.24	
			<i>For Elevated Installation >20' To 25', Add</i>	26.55	
			<i>For Elevated Installation >25' To 30', Add</i>	37.16	
			<i>For Elevated Installation >30' To 35', Add</i>	42.47	
			<i>For Elevated Installation >35' To 40', Add</i>	53.09	
			<i>For Elevated Installation >40', Add</i>	58.40	
			<i>For Work In Restricted Working Space, Add</i>	31.85	

26 05 33 13-1192 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0843)
 Note: Excludes cover.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1193 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	135.29	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
26 05 33 13-1194 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	149.02	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-1195 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	166.58	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	
26 05 33 13-1196 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	149.60	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
26 05 33 13-1197 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	161.54	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-1198 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....	183.97	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	
26 05 33 13-1199 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0843)		
Note: Excludes cover.		
26 05 33 13-1200 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	142.05	34.91
For Elevated Installation >10' To 15', Add	6.98	
For Elevated Installation >15' To 20', Add	13.96	
For Elevated Installation >20' To 25', Add	17.45	
For Elevated Installation >25' To 30', Add	24.43	
For Elevated Installation >30' To 35', Add	27.92	
For Elevated Installation >35' To 40', Add	34.91	
For Elevated Installation >40', Add	38.40	
For Work In Restricted Working Space, Add	20.94	
26 05 33 13-1201 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	156.63	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	
26 05 33 13-1202 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	171.84	45.81
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Work In Restricted Working Space, Add	27.49	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1203	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	159.28	34.91
			<i>For Elevated Installation >10' To 15', Add</i>	6.98	
			<i>For Elevated Installation >15' To 20', Add</i>	13.96	
			<i>For Elevated Installation >20' To 25', Add</i>	17.45	
			<i>For Elevated Installation >25' To 30', Add</i>	24.43	
			<i>For Elevated Installation >30' To 35', Add</i>	27.92	
			<i>For Elevated Installation >35' To 40', Add</i>	34.91	
			<i>For Elevated Installation >40', Add</i>	38.40	
			<i>For Work In Restricted Working Space, Add</i>	20.94	
26 05 33	13-1204	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	174.03	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33	13-1205	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	196.83	45.81
			<i>For Elevated Installation >10' To 15', Add</i>	9.16	
			<i>For Elevated Installation >15' To 20', Add</i>	18.33	
			<i>For Elevated Installation >20' To 25', Add</i>	22.91	
			<i>For Elevated Installation >25' To 30', Add</i>	32.07	
			<i>For Elevated Installation >30' To 35', Add</i>	36.66	
			<i>For Elevated Installation >35' To 40', Add</i>	45.82	
			<i>For Elevated Installation >40', Add</i>	50.40	
			<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1206 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers					
<small>(26 05 33 13-0843)</small>					
26 05 33	13-1207	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	49.23	4.37
			<i>For Elevated Installation >10' To 15', Add</i>	0.87	
			<i>For Elevated Installation >15' To 20', Add</i>	1.74	
			<i>For Elevated Installation >20' To 25', Add</i>	2.18	
			<i>For Elevated Installation >25' To 30', Add</i>	3.05	
			<i>For Elevated Installation >30' To 35', Add</i>	3.49	
			<i>For Elevated Installation >35' To 40', Add</i>	4.36	
			<i>For Elevated Installation >40', Add</i>	4.80	
			<i>For Work In Restricted Working Space, Add</i>	2.62	
26 05 33	13-1208	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover	66.85	5.09
			<i>For Elevated Installation >10' To 15', Add</i>	1.02	
			<i>For Elevated Installation >15' To 20', Add</i>	2.04	
			<i>For Elevated Installation >20' To 25', Add</i>	2.55	
			<i>For Elevated Installation >25' To 30', Add</i>	3.56	
			<i>For Elevated Installation >30' To 35', Add</i>	4.07	
			<i>For Elevated Installation >35' To 40', Add</i>	5.09	
			<i>For Elevated Installation >40', Add</i>	5.60	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
26 05 33	13-1209	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover	63.14	5.09
			<i>For Elevated Installation >10' To 15', Add</i>	1.02	
			<i>For Elevated Installation >15' To 20', Add</i>	2.04	
			<i>For Elevated Installation >20' To 25', Add</i>	2.55	
			<i>For Elevated Installation >25' To 30', Add</i>	3.56	
			<i>For Elevated Installation >30' To 35', Add</i>	4.07	
			<i>For Elevated Installation >35' To 40', Add</i>	5.09	
			<i>For Elevated Installation >40', Add</i>	5.60	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
26 05 33	13-1210	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover	56.20	5.09
			<i>For Elevated Installation >10' To 15', Add</i>	1.02	
			<i>For Elevated Installation >15' To 20', Add</i>	2.04	
			<i>For Elevated Installation >20' To 25', Add</i>	2.55	
			<i>For Elevated Installation >25' To 30', Add</i>	3.56	
			<i>For Elevated Installation >30' To 35', Add</i>	4.07	
			<i>For Elevated Installation >35' To 40', Add</i>	5.09	
			<i>For Elevated Installation >40', Add</i>	5.60	
			<i>For Work In Restricted Working Space, Add</i>	3.05	
26 05 33	13-1211	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	271.69	7.28
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	4.36	
26 05 33	13-1212	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	241.61	7.28
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	4.36	



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1213	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies <small>(26 05 33 13-0843)</small> Note: Includes covers.		
26 05 33 13-1214	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	289.06 9.16 18.33 22.91 32.07 36.66 45.82 50.40 27.49	45.81
26 05 33 13-1215	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	324.90 10.62 21.24 26.55 37.16 42.47 53.09 58.40 31.85	53.09
26 05 33 13-1216	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	446.55 11.64 23.27 29.09 40.73 46.54 58.18 64.00 34.91	58.18
26 05 33 13-1217	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	532.18 13.96 27.93 34.91 48.87 55.86 69.82 76.80 41.89	69.81
26 05 33 13-1218	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	768.44 19.64 39.27 49.09 68.73 78.54 98.18 108.00 58.91	98.18
26 05 33 13-1219	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	970.57 26.18 52.36 65.45 91.63 104.72 130.91 144.00 78.54	130.90
26 05 33 13-1220	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,418.83 32.73 65.45 81.82 114.54 130.90 163.63 179.99 98.18	163.64
26 05 33 13-1221	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,759.99 39.85 79.71 99.64 139.49 159.42 199.27 219.20 119.56	199.27
26 05 33 13-1222	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	289.06 9.16 18.33 22.91 32.07 36.66 45.82 50.40 27.49	45.81

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1223	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	324.90 10.62 21.24 26.55 37.16 42.47 53.09 58.40 31.85	53.09
26 05 33	13-1224	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	445.34 11.64 23.27 29.09 40.73 46.54 58.18 64.00 34.91	58.18
26 05 33	13-1225	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	519.93 13.96 27.93 34.91 48.87 55.86 69.82 76.80 41.89	69.81
26 05 33	13-1226	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	779.72 19.64 39.27 49.09 68.73 78.54 98.18 108.00 58.91	98.18
26 05 33	13-1227	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,021.17 26.18 52.36 65.45 91.63 104.72 130.91 144.00 78.54	130.90
26 05 33	13-1228	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,479.91 32.73 65.45 81.82 114.54 130.90 163.63 179.99 98.18	163.64
26 05 33	13-1229	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,798.03 39.85 79.71 99.64 139.49 159.42 199.27 219.20 119.56	199.27
26 05 33	13-1230	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	289.06 9.16 18.33 22.91 32.07 36.66 45.82 50.40 27.49	45.81
26 05 33	13-1231	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	324.90 10.62 21.24 26.55 37.16 42.47 53.09 58.40 31.85	53.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1232 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	445.34	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	
26 05 33 13-1233 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	519.93	69.81
<i>For Elevated Installation >10' To 15', Add</i>	13.96	
<i>For Elevated Installation >15' To 20', Add</i>	27.93	
<i>For Elevated Installation >20' To 25', Add</i>	34.91	
<i>For Elevated Installation >25' To 30', Add</i>	48.87	
<i>For Elevated Installation >30' To 35', Add</i>	55.86	
<i>For Elevated Installation >35' To 40', Add</i>	69.82	
<i>For Elevated Installation >40', Add</i>	76.80	
<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33 13-1234 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	779.72	98.18
<i>For Elevated Installation >10' To 15', Add</i>	19.64	
<i>For Elevated Installation >15' To 20', Add</i>	39.27	
<i>For Elevated Installation >20' To 25', Add</i>	49.09	
<i>For Elevated Installation >25' To 30', Add</i>	68.73	
<i>For Elevated Installation >30' To 35', Add</i>	78.54	
<i>For Elevated Installation >35' To 40', Add</i>	98.18	
<i>For Elevated Installation >40', Add</i>	108.00	
<i>For Work In Restricted Working Space, Add</i>	58.91	
26 05 33 13-1235 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,021.17	130.90
<i>For Elevated Installation >10' To 15', Add</i>	26.18	
<i>For Elevated Installation >15' To 20', Add</i>	52.36	
<i>For Elevated Installation >20' To 25', Add</i>	65.45	
<i>For Elevated Installation >25' To 30', Add</i>	91.63	
<i>For Elevated Installation >30' To 35', Add</i>	104.72	
<i>For Elevated Installation >35' To 40', Add</i>	130.91	
<i>For Elevated Installation >40', Add</i>	144.00	
<i>For Work In Restricted Working Space, Add</i>	78.54	
26 05 33 13-1236 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,479.91	163.64
<i>For Elevated Installation >10' To 15', Add</i>	32.73	
<i>For Elevated Installation >15' To 20', Add</i>	65.45	
<i>For Elevated Installation >20' To 25', Add</i>	81.82	
<i>For Elevated Installation >25' To 30', Add</i>	114.54	
<i>For Elevated Installation >30' To 35', Add</i>	130.90	
<i>For Elevated Installation >35' To 40', Add</i>	163.63	
<i>For Elevated Installation >40', Add</i>	179.99	
<i>For Work In Restricted Working Space, Add</i>	98.18	
26 05 33 13-1237 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,798.03	199.27
<i>For Elevated Installation >10' To 15', Add</i>	39.85	
<i>For Elevated Installation >15' To 20', Add</i>	79.71	
<i>For Elevated Installation >20' To 25', Add</i>	99.64	
<i>For Elevated Installation >25' To 30', Add</i>	139.49	
<i>For Elevated Installation >30' To 35', Add</i>	159.42	
<i>For Elevated Installation >35' To 40', Add</i>	199.27	
<i>For Elevated Installation >40', Add</i>	219.20	
<i>For Work In Restricted Working Space, Add</i>	119.56	
26 05 33 13-1238 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	289.06	45.81
<i>For Elevated Installation >10' To 15', Add</i>	9.16	
<i>For Elevated Installation >15' To 20', Add</i>	18.33	
<i>For Elevated Installation >20' To 25', Add</i>	22.91	
<i>For Elevated Installation >25' To 30', Add</i>	32.07	
<i>For Elevated Installation >30' To 35', Add</i>	36.66	
<i>For Elevated Installation >35' To 40', Add</i>	45.82	
<i>For Elevated Installation >40', Add</i>	50.40	
<i>For Work In Restricted Working Space, Add</i>	27.49	
26 05 33 13-1239 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	324.90	53.09
<i>For Elevated Installation >10' To 15', Add</i>	10.62	
<i>For Elevated Installation >15' To 20', Add</i>	21.24	
<i>For Elevated Installation >20' To 25', Add</i>	26.55	
<i>For Elevated Installation >25' To 30', Add</i>	37.16	
<i>For Elevated Installation >30' To 35', Add</i>	42.47	
<i>For Elevated Installation >35' To 40', Add</i>	53.09	
<i>For Elevated Installation >40', Add</i>	58.40	
<i>For Work In Restricted Working Space, Add</i>	31.85	
26 05 33 13-1240 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	446.55	58.18
<i>For Elevated Installation >10' To 15', Add</i>	11.64	
<i>For Elevated Installation >15' To 20', Add</i>	23.27	
<i>For Elevated Installation >20' To 25', Add</i>	29.09	
<i>For Elevated Installation >25' To 30', Add</i>	40.73	
<i>For Elevated Installation >30' To 35', Add</i>	46.54	
<i>For Elevated Installation >35' To 40', Add</i>	58.18	
<i>For Elevated Installation >40', Add</i>	64.00	
<i>For Work In Restricted Working Space, Add</i>	34.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1241	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	526.53	69.81
			<i>For Elevated Installation >10' To 15', Add</i>	13.96	
			<i>For Elevated Installation >15' To 20', Add</i>	27.93	
			<i>For Elevated Installation >20' To 25', Add</i>	34.91	
			<i>For Elevated Installation >25' To 30', Add</i>	48.87	
			<i>For Elevated Installation >30' To 35', Add</i>	55.86	
			<i>For Elevated Installation >35' To 40', Add</i>	69.82	
			<i>For Elevated Installation >40', Add</i>	76.80	
			<i>For Work In Restricted Working Space, Add</i>	41.89	
26 05 33	13-1242	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	768.44	98.18
			<i>For Elevated Installation >10' To 15', Add</i>	19.64	
			<i>For Elevated Installation >15' To 20', Add</i>	39.27	
			<i>For Elevated Installation >20' To 25', Add</i>	49.09	
			<i>For Elevated Installation >25' To 30', Add</i>	68.73	
			<i>For Elevated Installation >30' To 35', Add</i>	78.54	
			<i>For Elevated Installation >35' To 40', Add</i>	98.18	
			<i>For Elevated Installation >40', Add</i>	108.00	
			<i>For Work In Restricted Working Space, Add</i>	58.91	
26 05 33	13-1243	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	970.57	130.90
			<i>For Elevated Installation >10' To 15', Add</i>	26.18	
			<i>For Elevated Installation >15' To 20', Add</i>	52.36	
			<i>For Elevated Installation >20' To 25', Add</i>	65.45	
			<i>For Elevated Installation >25' To 30', Add</i>	91.63	
			<i>For Elevated Installation >30' To 35', Add</i>	104.72	
			<i>For Elevated Installation >35' To 40', Add</i>	130.91	
			<i>For Elevated Installation >40', Add</i>	144.00	
			<i>For Work In Restricted Working Space, Add</i>	78.54	
26 05 33	13-1244	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,418.83	163.64
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.45	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.54	
			<i>For Elevated Installation >30' To 35', Add</i>	130.90	
			<i>For Elevated Installation >35' To 40', Add</i>	163.63	
			<i>For Elevated Installation >40', Add</i>	179.99	
			<i>For Work In Restricted Working Space, Add</i>	98.18	
26 05 33	13-1245	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,775.83	199.27
			<i>For Elevated Installation >10' To 15', Add</i>	39.85	
			<i>For Elevated Installation >15' To 20', Add</i>	79.71	
			<i>For Elevated Installation >20' To 25', Add</i>	99.64	
			<i>For Elevated Installation >25' To 30', Add</i>	139.49	
			<i>For Elevated Installation >30' To 35', Add</i>	159.42	
			<i>For Elevated Installation >35' To 40', Add</i>	199.27	
			<i>For Elevated Installation >40', Add</i>	219.20	
			<i>For Work In Restricted Working Space, Add</i>	119.56	
26 05 33	13-1246		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0843)</small>		
26 05 33	13-1247	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	141.71	6.54
			<i>For Elevated Installation >10' To 15', Add</i>	1.31	
			<i>For Elevated Installation >15' To 20', Add</i>	2.62	
			<i>For Elevated Installation >20' To 25', Add</i>	3.27	
			<i>For Elevated Installation >25' To 30', Add</i>	4.58	
			<i>For Elevated Installation >30' To 35', Add</i>	5.24	
			<i>For Elevated Installation >35' To 40', Add</i>	6.55	
			<i>For Elevated Installation >40', Add</i>	7.20	
			<i>For Work In Restricted Working Space, Add</i>	3.93	
26 05 33	13-1248	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	143.16	7.28
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	4.36	
26 05 33	13-1249	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	202.39	10.18
			<i>For Elevated Installation >10' To 15', Add</i>	2.04	
			<i>For Elevated Installation >15' To 20', Add</i>	4.07	
			<i>For Elevated Installation >20' To 25', Add</i>	5.09	
			<i>For Elevated Installation >25' To 30', Add</i>	7.13	
			<i>For Elevated Installation >30' To 35', Add</i>	8.15	
			<i>For Elevated Installation >35' To 40', Add</i>	10.19	
			<i>For Elevated Installation >40', Add</i>	11.20	
			<i>For Work In Restricted Working Space, Add</i>	6.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1250 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	205.29	11.63
<i>For Elevated Installation >10' To 15', Add</i>	2.33	
<i>For Elevated Installation >15' To 20', Add</i>	4.65	
<i>For Elevated Installation >20' To 25', Add</i>	5.82	
<i>For Elevated Installation >25' To 30', Add</i>	8.14	
<i>For Elevated Installation >30' To 35', Add</i>	9.31	
<i>For Elevated Installation >35' To 40', Add</i>	11.64	
<i>For Elevated Installation >40', Add</i>	12.80	
<i>For Work In Restricted Working Space, Add</i>	6.98	
26 05 33 13-1251 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	357.92	13.82
<i>For Elevated Installation >10' To 15', Add</i>	2.76	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.91	
<i>For Elevated Installation >25' To 30', Add</i>	9.67	
<i>For Elevated Installation >30' To 35', Add</i>	11.05	
<i>For Elevated Installation >35' To 40', Add</i>	13.82	
<i>For Elevated Installation >40', Add</i>	15.20	
<i>For Work In Restricted Working Space, Add</i>	8.29	
26 05 33 13-1252 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	365.20	17.46
<i>For Elevated Installation >10' To 15', Add</i>	3.49	
<i>For Elevated Installation >15' To 20', Add</i>	6.98	
<i>For Elevated Installation >20' To 25', Add</i>	8.73	
<i>For Elevated Installation >25' To 30', Add</i>	12.22	
<i>For Elevated Installation >30' To 35', Add</i>	13.96	
<i>For Elevated Installation >35' To 40', Add</i>	17.46	
<i>For Elevated Installation >40', Add</i>	19.20	
<i>For Work In Restricted Working Space, Add</i>	10.47	
26 05 33 13-1253 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	549.22	19.63
<i>For Elevated Installation >10' To 15', Add</i>	3.93	
<i>For Elevated Installation >15' To 20', Add</i>	7.85	
<i>For Elevated Installation >20' To 25', Add</i>	9.82	
<i>For Elevated Installation >25' To 30', Add</i>	13.74	
<i>For Elevated Installation >30' To 35', Add</i>	15.71	
<i>For Elevated Installation >35' To 40', Add</i>	19.64	
<i>For Elevated Installation >40', Add</i>	21.60	
<i>For Work In Restricted Working Space, Add</i>	11.78	
26 05 33 13-1254 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	560.86	25.46
<i>For Elevated Installation >10' To 15', Add</i>	5.09	
<i>For Elevated Installation >15' To 20', Add</i>	10.18	
<i>For Elevated Installation >20' To 25', Add</i>	12.73	
<i>For Elevated Installation >25' To 30', Add</i>	17.82	
<i>For Elevated Installation >30' To 35', Add</i>	20.36	
<i>For Elevated Installation >35' To 40', Add</i>	25.46	
<i>For Elevated Installation >40', Add</i>	28.00	
<i>For Work In Restricted Working Space, Add</i>	15.27	
26 05 33 13-1255 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0843)</small>		
26 05 33 13-1256 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	244.90	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.55	
<i>For Elevated Installation >35' To 40', Add</i>	18.19	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1257 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	289.48	22.54
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.02	
<i>For Elevated Installation >20' To 25', Add</i>	11.27	
<i>For Elevated Installation >25' To 30', Add</i>	15.78	
<i>For Elevated Installation >30' To 35', Add</i>	18.04	
<i>For Elevated Installation >35' To 40', Add</i>	22.55	
<i>For Elevated Installation >40', Add</i>	24.80	
<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-1258 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	342.77	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1259	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	422.02	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1260	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	563.36	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-1261	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	778.74	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1262	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,111.31	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33 13-1263	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,382.58	68.36
			<i>For Elevated Installation >10' To 15', Add</i>	13.67	
			<i>For Elevated Installation >15' To 20', Add</i>	27.35	
			<i>For Elevated Installation >20' To 25', Add</i>	34.18	
			<i>For Elevated Installation >25' To 30', Add</i>	47.86	
			<i>For Elevated Installation >30' To 35', Add</i>	54.69	
			<i>For Elevated Installation >35' To 40', Add</i>	68.37	
			<i>For Elevated Installation >40', Add</i>	75.20	
			<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33 13-1264	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,937.52	77.09
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
			<i>For Work In Restricted Working Space, Add</i>	46.25	
26 05 33 13-1265	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,234.47	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33 13-1266			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper <small>(26 05 33 13-0843)</small>		
26 05 33 13-1267	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	387.76	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1268 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	403.11	22.54
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.02	
<i>For Elevated Installation >20' To 25', Add</i>	11.27	
<i>For Elevated Installation >25' To 30', Add</i>	15.78	
<i>For Elevated Installation >30' To 35', Add</i>	18.04	
<i>For Elevated Installation >35' To 40', Add</i>	22.55	
<i>For Elevated Installation >40', Add</i>	24.80	
<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33 13-1269 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	453.02	27.63
<i>For Elevated Installation >10' To 15', Add</i>	5.53	
<i>For Elevated Installation >15' To 20', Add</i>	11.05	
<i>For Elevated Installation >20' To 25', Add</i>	13.82	
<i>For Elevated Installation >25' To 30', Add</i>	19.34	
<i>For Elevated Installation >30' To 35', Add</i>	22.11	
<i>For Elevated Installation >35' To 40', Add</i>	27.64	
<i>For Elevated Installation >40', Add</i>	30.40	
<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33 13-1270 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	548.02	32.00
<i>For Elevated Installation >10' To 15', Add</i>	6.40	
<i>For Elevated Installation >15' To 20', Add</i>	12.80	
<i>For Elevated Installation >20' To 25', Add</i>	16.00	
<i>For Elevated Installation >25' To 30', Add</i>	22.40	
<i>For Elevated Installation >30' To 35', Add</i>	25.60	
<i>For Elevated Installation >35' To 40', Add</i>	32.00	
<i>For Elevated Installation >40', Add</i>	35.20	
<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33 13-1271 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	663.96	36.37
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33 13-1272 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	848.00	40.00
<i>For Elevated Installation >10' To 15', Add</i>	8.00	
<i>For Elevated Installation >15' To 20', Add</i>	16.00	
<i>For Elevated Installation >20' To 25', Add</i>	20.00	
<i>For Elevated Installation >25' To 30', Add</i>	28.00	
<i>For Elevated Installation >30' To 35', Add</i>	32.00	
<i>For Elevated Installation >35' To 40', Add</i>	40.00	
<i>For Elevated Installation >40', Add</i>	44.00	
<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1273 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,250.83	50.18
<i>For Elevated Installation >10' To 15', Add</i>	10.04	
<i>For Elevated Installation >15' To 20', Add</i>	20.07	
<i>For Elevated Installation >20' To 25', Add</i>	25.09	
<i>For Elevated Installation >25' To 30', Add</i>	35.13	
<i>For Elevated Installation >30' To 35', Add</i>	40.14	
<i>For Elevated Installation >35' To 40', Add</i>	50.18	
<i>For Elevated Installation >40', Add</i>	55.20	
<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33 13-1274 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,569.01	68.36
<i>For Elevated Installation >10' To 15', Add</i>	13.67	
<i>For Elevated Installation >15' To 20', Add</i>	27.35	
<i>For Elevated Installation >20' To 25', Add</i>	34.18	
<i>For Elevated Installation >25' To 30', Add</i>	47.86	
<i>For Elevated Installation >30' To 35', Add</i>	54.69	
<i>For Elevated Installation >35' To 40', Add</i>	68.37	
<i>For Elevated Installation >40', Add</i>	75.20	
<i>For Work In Restricted Working Space, Add</i>	41.02	
26 05 33 13-1275 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,997.71	77.09
<i>For Elevated Installation >10' To 15', Add</i>	15.42	
<i>For Elevated Installation >15' To 20', Add</i>	30.84	
<i>For Elevated Installation >20' To 25', Add</i>	38.55	
<i>For Elevated Installation >25' To 30', Add</i>	53.96	
<i>For Elevated Installation >30' To 35', Add</i>	61.67	
<i>For Elevated Installation >35' To 40', Add</i>	77.09	
<i>For Elevated Installation >40', Add</i>	84.80	
<i>For Work In Restricted Working Space, Add</i>	46.25	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1276	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,501.03	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33	13-1277		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs <small>(26 05 33 13-0843)</small>		
26 05 33	13-1278	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	81.26	8.72
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.49	
			<i>For Elevated Installation >20' To 25', Add</i>	4.37	
			<i>For Elevated Installation >25' To 30', Add</i>	6.11	
			<i>For Elevated Installation >30' To 35', Add</i>	6.98	
			<i>For Elevated Installation >35' To 40', Add</i>	8.73	
			<i>For Elevated Installation >40', Add</i>	9.60	
			<i>For Work In Restricted Working Space, Add</i>	5.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.24	
26 05 33	13-1279	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	88.31	10.91
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.46	
			<i>For Elevated Installation >25' To 30', Add</i>	7.64	
			<i>For Elevated Installation >30' To 35', Add</i>	8.73	
			<i>For Elevated Installation >35' To 40', Add</i>	10.91	
			<i>For Elevated Installation >40', Add</i>	12.00	
			<i>For Work In Restricted Working Space, Add</i>	6.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.55	
26 05 33	13-1280	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	97.31	13.09
			<i>For Elevated Installation >10' To 15', Add</i>	2.62	
			<i>For Elevated Installation >15' To 20', Add</i>	5.24	
			<i>For Elevated Installation >20' To 25', Add</i>	6.55	
			<i>For Elevated Installation >25' To 30', Add</i>	9.16	
			<i>For Elevated Installation >30' To 35', Add</i>	10.47	
			<i>For Elevated Installation >35' To 40', Add</i>	13.09	
			<i>For Elevated Installation >40', Add</i>	14.40	
			<i>For Work In Restricted Working Space, Add</i>	7.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.85	
26 05 33	13-1281	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	110.26	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1282	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	147.84	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-1283	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	180.38	20.37
			<i>For Elevated Installation >10' To 15', Add</i>	4.07	
			<i>For Elevated Installation >15' To 20', Add</i>	8.14	
			<i>For Elevated Installation >20' To 25', Add</i>	10.18	
			<i>For Elevated Installation >25' To 30', Add</i>	14.25	
			<i>For Elevated Installation >30' To 35', Add</i>	16.29	
			<i>For Elevated Installation >35' To 40', Add</i>	20.36	
			<i>For Elevated Installation >40', Add</i>	22.40	
			<i>For Work In Restricted Working Space, Add</i>	12.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33	13-1284	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	257.69	25.46
			<i>For Elevated Installation >10' To 15', Add</i>	5.09	
			<i>For Elevated Installation >15' To 20', Add</i>	10.18	
			<i>For Elevated Installation >20' To 25', Add</i>	12.73	
			<i>For Elevated Installation >25' To 30', Add</i>	17.82	
			<i>For Elevated Installation >30' To 35', Add</i>	20.36	
			<i>For Elevated Installation >35' To 40', Add</i>	25.46	
			<i>For Elevated Installation >40', Add</i>	28.00	
			<i>For Work In Restricted Working Space, Add</i>	15.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1285 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	336.55	34.18
For Elevated Installation >10' To 15', Add	6.84	
For Elevated Installation >15' To 20', Add	13.67	
For Elevated Installation >20' To 25', Add	17.09	
For Elevated Installation >25' To 30', Add	23.93	
For Elevated Installation >30' To 35', Add	27.35	
For Elevated Installation >35' To 40', Add	34.19	
For Elevated Installation >40', Add	37.60	
For Work In Restricted Working Space, Add	20.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.51	
26 05 33 13-1286 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	428.99	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13	
26 05 33 13-1287 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	539.79	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.11	
26 05 33 13-1288 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	673.94	81.46
For Elevated Installation >10' To 15', Add	16.29	
For Elevated Installation >15' To 20', Add	32.58	
For Elevated Installation >20' To 25', Add	40.73	
For Elevated Installation >25' To 30', Add	57.02	
For Elevated Installation >30' To 35', Add	65.16	
For Elevated Installation >35' To 40', Add	81.45	
For Elevated Installation >40', Add	89.60	
For Work In Restricted Working Space, Add	48.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.87	
26 05 33 13-1289 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	1,016.44	122.90
For Elevated Installation >10' To 15', Add	24.58	
For Elevated Installation >15' To 20', Add	49.16	
For Elevated Installation >20' To 25', Add	61.46	
For Elevated Installation >25' To 30', Add	86.04	
For Elevated Installation >30' To 35', Add	98.33	
For Elevated Installation >35' To 40', Add	122.91	
For Elevated Installation >40', Add	135.20	
For Work In Restricted Working Space, Add	73.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.75	
26 05 33 13-1290 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0843)</small>		
26 05 33 13-1291 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	121.85	8.72
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.49	
For Elevated Installation >20' To 25', Add	4.37	
For Elevated Installation >25' To 30', Add	6.11	
For Elevated Installation >30' To 35', Add	6.98	
For Elevated Installation >35' To 40', Add	8.73	
For Elevated Installation >40', Add	9.60	
For Work In Restricted Working Space, Add	5.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.24	
26 05 33 13-1292 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	129.19	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.55	
26 05 33 13-1293 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	139.08	13.09
For Elevated Installation >10' To 15', Add	2.62	
For Elevated Installation >15' To 20', Add	5.24	
For Elevated Installation >20' To 25', Add	6.55	
For Elevated Installation >25' To 30', Add	9.16	
For Elevated Installation >30' To 35', Add	10.47	
For Elevated Installation >35' To 40', Add	13.09	
For Elevated Installation >40', Add	14.40	
For Work In Restricted Working Space, Add	7.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.85	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1294	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	158.97	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1295	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	170.84	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-1296	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	193.19	20.37
			<i>For Elevated Installation >10' To 15', Add</i>	4.07	
			<i>For Elevated Installation >15' To 20', Add</i>	8.14	
			<i>For Elevated Installation >20' To 25', Add</i>	10.18	
			<i>For Elevated Installation >25' To 30', Add</i>	14.25	
			<i>For Elevated Installation >30' To 35', Add</i>	16.29	
			<i>For Elevated Installation >35' To 40', Add</i>	20.36	
			<i>For Elevated Installation >40', Add</i>	22.40	
			<i>For Work In Restricted Working Space, Add</i>	12.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33	13-1297	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	293.65	25.46
			<i>For Elevated Installation >10' To 15', Add</i>	5.09	
			<i>For Elevated Installation >15' To 20', Add</i>	10.18	
			<i>For Elevated Installation >20' To 25', Add</i>	12.73	
			<i>For Elevated Installation >25' To 30', Add</i>	17.82	
			<i>For Elevated Installation >30' To 35', Add</i>	20.36	
			<i>For Elevated Installation >35' To 40', Add</i>	25.46	
			<i>For Elevated Installation >40', Add</i>	28.00	
			<i>For Work In Restricted Working Space, Add</i>	15.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.27	
26 05 33	13-1298	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	352.06	34.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.84	
			<i>For Elevated Installation >15' To 20', Add</i>	13.67	
			<i>For Elevated Installation >20' To 25', Add</i>	17.09	
			<i>For Elevated Installation >25' To 30', Add</i>	23.93	
			<i>For Elevated Installation >30' To 35', Add</i>	27.35	
			<i>For Elevated Installation >35' To 40', Add</i>	34.19	
			<i>For Elevated Installation >40', Add</i>	37.60	
			<i>For Work In Restricted Working Space, Add</i>	20.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.51	
26 05 33	13-1299	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	432.34	38.55
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.84	
			<i>For Elevated Installation >35' To 40', Add</i>	38.55	
			<i>For Elevated Installation >40', Add</i>	42.40	
			<i>For Work In Restricted Working Space, Add</i>	23.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.13	
26 05 33	13-1300	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	561.41	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33	13-1301	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	873.84	81.46
			<i>For Elevated Installation >10' To 15', Add</i>	16.29	
			<i>For Elevated Installation >15' To 20', Add</i>	32.58	
			<i>For Elevated Installation >20' To 25', Add</i>	40.73	
			<i>For Elevated Installation >25' To 30', Add</i>	57.02	
			<i>For Elevated Installation >30' To 35', Add</i>	65.16	
			<i>For Elevated Installation >35' To 40', Add</i>	81.45	
			<i>For Elevated Installation >40', Add</i>	89.60	
			<i>For Work In Restricted Working Space, Add</i>	48.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1302 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,428.38	122.90
<i>For Elevated Installation >10' To 15', Add</i>	24.58	
<i>For Elevated Installation >15' To 20', Add</i>	49.16	
<i>For Elevated Installation >20' To 25', Add</i>	61.46	
<i>For Elevated Installation >25' To 30', Add</i>	86.04	
<i>For Elevated Installation >30' To 35', Add</i>	98.33	
<i>For Elevated Installation >35' To 40', Add</i>	122.91	
<i>For Elevated Installation >40', Add</i>	135.20	
<i>For Work In Restricted Working Space, Add</i>	73.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.75	
26 05 33 13-1303 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0843)</small>		
26 05 33 13-1304 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	130.87	8.72
<i>For Elevated Installation >10' To 15', Add</i>	1.75	
<i>For Elevated Installation >15' To 20', Add</i>	3.49	
<i>For Elevated Installation >20' To 25', Add</i>	4.37	
<i>For Elevated Installation >25' To 30', Add</i>	6.11	
<i>For Elevated Installation >30' To 35', Add</i>	6.98	
<i>For Elevated Installation >35' To 40', Add</i>	8.73	
<i>For Elevated Installation >40', Add</i>	9.60	
<i>For Work In Restricted Working Space, Add</i>	5.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.24	
26 05 33 13-1305 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	137.75	10.91
<i>For Elevated Installation >10' To 15', Add</i>	2.18	
<i>For Elevated Installation >15' To 20', Add</i>	4.36	
<i>For Elevated Installation >20' To 25', Add</i>	5.46	
<i>For Elevated Installation >25' To 30', Add</i>	7.64	
<i>For Elevated Installation >30' To 35', Add</i>	8.73	
<i>For Elevated Installation >35' To 40', Add</i>	10.91	
<i>For Elevated Installation >40', Add</i>	12.00	
<i>For Work In Restricted Working Space, Add</i>	6.55	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.55	
26 05 33 13-1306 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	148.03	13.09
<i>For Elevated Installation >10' To 15', Add</i>	2.62	
<i>For Elevated Installation >15' To 20', Add</i>	5.24	
<i>For Elevated Installation >20' To 25', Add</i>	6.55	
<i>For Elevated Installation >25' To 30', Add</i>	9.16	
<i>For Elevated Installation >30' To 35', Add</i>	10.47	
<i>For Elevated Installation >35' To 40', Add</i>	13.09	
<i>For Elevated Installation >40', Add</i>	14.40	
<i>For Work In Restricted Working Space, Add</i>	7.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.85	
26 05 33 13-1307 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	186.14	16.00
<i>For Elevated Installation >10' To 15', Add</i>	3.20	
<i>For Elevated Installation >15' To 20', Add</i>	6.40	
<i>For Elevated Installation >20' To 25', Add</i>	8.00	
<i>For Elevated Installation >25' To 30', Add</i>	11.20	
<i>For Elevated Installation >30' To 35', Add</i>	12.80	
<i>For Elevated Installation >35' To 40', Add</i>	16.00	
<i>For Elevated Installation >40', Add</i>	17.60	
<i>For Work In Restricted Working Space, Add</i>	9.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33 13-1308 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	203.64	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.55	
<i>For Elevated Installation >35' To 40', Add</i>	18.19	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33 13-1309 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	215.82	20.37
<i>For Elevated Installation >10' To 15', Add</i>	4.07	
<i>For Elevated Installation >15' To 20', Add</i>	8.14	
<i>For Elevated Installation >20' To 25', Add</i>	10.18	
<i>For Elevated Installation >25' To 30', Add</i>	14.25	
<i>For Elevated Installation >30' To 35', Add</i>	16.29	
<i>For Elevated Installation >35' To 40', Add</i>	20.36	
<i>For Elevated Installation >40', Add</i>	22.40	
<i>For Work In Restricted Working Space, Add</i>	12.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	

26 05 33 13-1310 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0843)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1311	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	98.98	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.55	
			<i>For Elevated Installation >35' To 40', Add</i>	18.19	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33	13-1312	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	108.84	22.54
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.02	
			<i>For Elevated Installation >20' To 25', Add</i>	11.27	
			<i>For Elevated Installation >25' To 30', Add</i>	15.78	
			<i>For Elevated Installation >30' To 35', Add</i>	18.04	
			<i>For Elevated Installation >35' To 40', Add</i>	22.55	
			<i>For Elevated Installation >40', Add</i>	24.80	
			<i>For Work In Restricted Working Space, Add</i>	13.53	
26 05 33	13-1313	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	140.74	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.82	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.11	
			<i>For Elevated Installation >35' To 40', Add</i>	27.64	
			<i>For Elevated Installation >40', Add</i>	30.40	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
26 05 33	13-1314	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	201.55	32.00
			<i>For Elevated Installation >10' To 15', Add</i>	6.40	
			<i>For Elevated Installation >15' To 20', Add</i>	12.80	
			<i>For Elevated Installation >20' To 25', Add</i>	16.00	
			<i>For Elevated Installation >25' To 30', Add</i>	22.40	
			<i>For Elevated Installation >30' To 35', Add</i>	25.60	
			<i>For Elevated Installation >35' To 40', Add</i>	32.00	
			<i>For Elevated Installation >40', Add</i>	35.20	
			<i>For Work In Restricted Working Space, Add</i>	19.20	
26 05 33	13-1315	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	238.63	36.37
			<i>For Elevated Installation >10' To 15', Add</i>	7.27	
			<i>For Elevated Installation >15' To 20', Add</i>	14.54	
			<i>For Elevated Installation >20' To 25', Add</i>	18.18	
			<i>For Elevated Installation >25' To 30', Add</i>	25.45	
			<i>For Elevated Installation >30' To 35', Add</i>	29.09	
			<i>For Elevated Installation >35' To 40', Add</i>	36.36	
			<i>For Elevated Installation >40', Add</i>	40.00	
			<i>For Work In Restricted Working Space, Add</i>	21.82	
26 05 33	13-1316	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	301.10	40.00
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.00	
			<i>For Elevated Installation >40', Add</i>	44.00	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33	13-1317	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	399.69	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-1318	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	513.03	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-1319	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	666.07	77.09
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
			<i>For Work In Restricted Working Space, Add</i>	46.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1320 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	858.01	100.36
For Elevated Installation >10' To 15', Add	20.07	
For Elevated Installation >15' To 20', Add	40.15	
For Elevated Installation >20' To 25', Add	50.18	
For Elevated Installation >25' To 30', Add	70.26	
For Elevated Installation >30' To 35', Add	80.29	
For Elevated Installation >35' To 40', Add	100.37	
For Elevated Installation >40', Add	110.40	
For Work In Restricted Working Space, Add	60.22	
26 05 33 13-1321 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,555.79	163.64
For Elevated Installation >10' To 15', Add	32.73	
For Elevated Installation >15' To 20', Add	65.45	
For Elevated Installation >20' To 25', Add	81.82	
For Elevated Installation >25' To 30', Add	114.54	
For Elevated Installation >30' To 35', Add	130.90	
For Elevated Installation >35' To 40', Add	163.63	
For Elevated Installation >40', Add	179.99	
For Work In Restricted Working Space, Add	98.18	
26 05 33 13-1322 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,954.79	245.82
For Elevated Installation >10' To 15', Add	49.16	
For Elevated Installation >15' To 20', Add	98.32	
For Elevated Installation >20' To 25', Add	122.91	
For Elevated Installation >25' To 30', Add	172.07	
For Elevated Installation >30' To 35', Add	196.65	
For Elevated Installation >35' To 40', Add	245.81	
For Elevated Installation >40', Add	270.39	
For Work In Restricted Working Space, Add	147.49	
26 05 33 13-1323 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0843)</small>		
26 05 33 13-1324 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	101.09	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.55	
For Elevated Installation >35' To 40', Add	18.19	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
26 05 33 13-1325 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	116.90	22.54
For Elevated Installation >10' To 15', Add	4.51	
For Elevated Installation >15' To 20', Add	9.02	
For Elevated Installation >20' To 25', Add	11.27	
For Elevated Installation >25' To 30', Add	15.78	
For Elevated Installation >30' To 35', Add	18.04	
For Elevated Installation >35' To 40', Add	22.55	
For Elevated Installation >40', Add	24.80	
For Work In Restricted Working Space, Add	13.53	
26 05 33 13-1326 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	145.03	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.82	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.11	
For Elevated Installation >35' To 40', Add	27.64	
For Elevated Installation >40', Add	30.40	
For Work In Restricted Working Space, Add	16.58	
26 05 33 13-1327 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	209.43	32.00
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.80	
For Elevated Installation >20' To 25', Add	16.00	
For Elevated Installation >25' To 30', Add	22.40	
For Elevated Installation >30' To 35', Add	25.60	
For Elevated Installation >35' To 40', Add	32.00	
For Elevated Installation >40', Add	35.20	
For Work In Restricted Working Space, Add	19.20	
26 05 33 13-1328 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	249.57	36.37
For Elevated Installation >10' To 15', Add	7.27	
For Elevated Installation >15' To 20', Add	14.54	
For Elevated Installation >20' To 25', Add	18.18	
For Elevated Installation >25' To 30', Add	25.45	
For Elevated Installation >30' To 35', Add	29.09	
For Elevated Installation >35' To 40', Add	36.36	
For Elevated Installation >40', Add	40.00	
For Work In Restricted Working Space, Add	21.82	
26 05 33 13-1329 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	324.73	40.00
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.00	
For Elevated Installation >40', Add	44.00	
For Work In Restricted Working Space, Add	24.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1330	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	450.25	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-1331	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	564.44	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
26 05 33	13-1332	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	759.01	77.09
			<i>For Elevated Installation >10' To 15', Add</i>	15.42	
			<i>For Elevated Installation >15' To 20', Add</i>	30.84	
			<i>For Elevated Installation >20' To 25', Add</i>	38.55	
			<i>For Elevated Installation >25' To 30', Add</i>	53.96	
			<i>For Elevated Installation >30' To 35', Add</i>	61.67	
			<i>For Elevated Installation >35' To 40', Add</i>	77.09	
			<i>For Elevated Installation >40', Add</i>	84.80	
			<i>For Work In Restricted Working Space, Add</i>	46.25	
26 05 33	13-1333	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	950.60	100.36
			<i>For Elevated Installation >10' To 15', Add</i>	20.07	
			<i>For Elevated Installation >15' To 20', Add</i>	40.15	
			<i>For Elevated Installation >20' To 25', Add</i>	50.18	
			<i>For Elevated Installation >25' To 30', Add</i>	70.26	
			<i>For Elevated Installation >30' To 35', Add</i>	80.29	
			<i>For Elevated Installation >35' To 40', Add</i>	100.37	
			<i>For Elevated Installation >40', Add</i>	110.40	
			<i>For Work In Restricted Working Space, Add</i>	60.22	
26 05 33	13-1334	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,725.53	163.64
			<i>For Elevated Installation >10' To 15', Add</i>	32.73	
			<i>For Elevated Installation >15' To 20', Add</i>	65.45	
			<i>For Elevated Installation >20' To 25', Add</i>	81.82	
			<i>For Elevated Installation >25' To 30', Add</i>	114.54	
			<i>For Elevated Installation >30' To 35', Add</i>	130.90	
			<i>For Elevated Installation >35' To 40', Add</i>	163.63	
			<i>For Elevated Installation >40', Add</i>	179.99	
			<i>For Work In Restricted Working Space, Add</i>	98.18	
26 05 33	13-1335	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,228.87	245.82
			<i>For Elevated Installation >10' To 15', Add</i>	49.16	
			<i>For Elevated Installation >15' To 20', Add</i>	98.32	
			<i>For Elevated Installation >20' To 25', Add</i>	122.91	
			<i>For Elevated Installation >25' To 30', Add</i>	172.07	
			<i>For Elevated Installation >30' To 35', Add</i>	196.65	
			<i>For Elevated Installation >35' To 40', Add</i>	245.81	
			<i>For Elevated Installation >40', Add</i>	270.39	
			<i>For Work In Restricted Working Space, Add</i>	147.49	
26 05 33	13-1336		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0843)</small>		
26 05 33	13-1337	EA	3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	53.99	5.82
			<i>For Elevated Installation >10' To 15', Add</i>	1.16	
			<i>For Elevated Installation >15' To 20', Add</i>	2.33	
			<i>For Elevated Installation >20' To 25', Add</i>	2.91	
			<i>For Elevated Installation >25' To 30', Add</i>	4.07	
			<i>For Elevated Installation >30' To 35', Add</i>	4.65	
			<i>For Elevated Installation >35' To 40', Add</i>	5.82	
			<i>For Elevated Installation >40', Add</i>	6.40	
			<i>For Work In Restricted Working Space, Add</i>	3.49	
26 05 33	13-1338	EA	1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	59.44	7.28
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	4.36	
26 05 33	13-1339	EA	1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	67.35	7.28
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.91	
			<i>For Elevated Installation >20' To 25', Add</i>	3.64	
			<i>For Elevated Installation >25' To 30', Add</i>	5.09	
			<i>For Elevated Installation >30' To 35', Add</i>	5.82	
			<i>For Elevated Installation >35' To 40', Add</i>	7.27	
			<i>For Elevated Installation >40', Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1340 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	83.00	8.00
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.20	
For Elevated Installation >20' To 25', Add	4.00	
For Elevated Installation >25' To 30', Add	5.60	
For Elevated Installation >30' To 35', Add	6.40	
For Elevated Installation >35' To 40', Add	8.00	
For Elevated Installation >40', Add	8.80	
For Work In Restricted Working Space, Add	4.80	
26 05 33 13-1341 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	87.56	8.00
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.20	
For Elevated Installation >20' To 25', Add	4.00	
For Elevated Installation >25' To 30', Add	5.60	
For Elevated Installation >30' To 35', Add	6.40	
For Elevated Installation >35' To 40', Add	8.00	
For Elevated Installation >40', Add	8.80	
For Work In Restricted Working Space, Add	4.80	
26 05 33 13-1342 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	75.85	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
26 05 33 13-1343 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	86.03	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
26 05 33 13-1344 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	131.86	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
26 05 33 13-1345 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	146.68	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
26 05 33 13-1346 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	142.73	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
26 05 33 13-1347 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	150.08	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
26 05 33 13-1348 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	168.56	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1349	EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	167.95	13.09
	<i>For Elevated Installation >10' To 15', Add</i>	2.62	
	<i>For Elevated Installation >15' To 20', Add</i>	5.24	
	<i>For Elevated Installation >20' To 25', Add</i>	6.55	
	<i>For Elevated Installation >25' To 30', Add</i>	9.16	
	<i>For Elevated Installation >30' To 35', Add</i>	10.47	
	<i>For Elevated Installation >35' To 40', Add</i>	13.09	
	<i>For Elevated Installation >40', Add</i>	14.40	
	<i>For Work In Restricted Working Space, Add</i>	7.85	
26 05 33 13-1350	EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	214.53	18.18
	<i>For Elevated Installation >10' To 15', Add</i>	3.64	
	<i>For Elevated Installation >15' To 20', Add</i>	7.27	
	<i>For Elevated Installation >20' To 25', Add</i>	9.09	
	<i>For Elevated Installation >25' To 30', Add</i>	12.73	
	<i>For Elevated Installation >30' To 35', Add</i>	14.55	
	<i>For Elevated Installation >35' To 40', Add</i>	18.19	
	<i>For Elevated Installation >40', Add</i>	20.00	
	<i>For Work In Restricted Working Space, Add</i>	10.91	
26 05 33 13-1351	EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	314.49	21.09
	<i>For Elevated Installation >10' To 15', Add</i>	4.22	
	<i>For Elevated Installation >15' To 20', Add</i>	8.44	
	<i>For Elevated Installation >20' To 25', Add</i>	10.55	
	<i>For Elevated Installation >25' To 30', Add</i>	14.76	
	<i>For Elevated Installation >30' To 35', Add</i>	16.87	
	<i>For Elevated Installation >35' To 40', Add</i>	21.09	
	<i>For Elevated Installation >40', Add</i>	23.20	
	<i>For Work In Restricted Working Space, Add</i>	12.65	
26 05 33 13-1352	EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	420.99	29.09
	<i>For Elevated Installation >10' To 15', Add</i>	5.82	
	<i>For Elevated Installation >15' To 20', Add</i>	11.64	
	<i>For Elevated Installation >20' To 25', Add</i>	14.55	
	<i>For Elevated Installation >25' To 30', Add</i>	20.37	
	<i>For Elevated Installation >30' To 35', Add</i>	23.28	
	<i>For Elevated Installation >35' To 40', Add</i>	29.10	
	<i>For Elevated Installation >40', Add</i>	32.00	
	<i>For Work In Restricted Working Space, Add</i>	17.46	
26 05 33 13-1353	EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	527.31	40.00
	<i>For Elevated Installation >10' To 15', Add</i>	8.00	
	<i>For Elevated Installation >15' To 20', Add</i>	16.00	
	<i>For Elevated Installation >20' To 25', Add</i>	20.00	
	<i>For Elevated Installation >25' To 30', Add</i>	28.00	
	<i>For Elevated Installation >30' To 35', Add</i>	32.00	
	<i>For Elevated Installation >35' To 40', Add</i>	40.00	
	<i>For Elevated Installation >40', Add</i>	44.00	
	<i>For Work In Restricted Working Space, Add</i>	24.00	
26 05 33 13-1354 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-0843)</small>			
26 05 33 13-1355	EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	35.22	8.72
	<i>For Elevated Installation >10' To 15', Add</i>	1.75	
	<i>For Elevated Installation >15' To 20', Add</i>	3.49	
	<i>For Elevated Installation >20' To 25', Add</i>	4.37	
	<i>For Elevated Installation >25' To 30', Add</i>	6.11	
	<i>For Elevated Installation >30' To 35', Add</i>	6.98	
	<i>For Elevated Installation >35' To 40', Add</i>	8.73	
	<i>For Elevated Installation >40', Add</i>	9.60	
	<i>For Work In Restricted Working Space, Add</i>	5.24	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.24	
26 05 33 13-1356	EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.92	10.91
	<i>For Elevated Installation >10' To 15', Add</i>	2.18	
	<i>For Elevated Installation >15' To 20', Add</i>	4.36	
	<i>For Elevated Installation >20' To 25', Add</i>	5.46	
	<i>For Elevated Installation >25' To 30', Add</i>	7.64	
	<i>For Elevated Installation >30' To 35', Add</i>	8.73	
	<i>For Elevated Installation >35' To 40', Add</i>	10.91	
	<i>For Elevated Installation >40', Add</i>	12.00	
	<i>For Work In Restricted Working Space, Add</i>	6.55	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.55	
26 05 33 13-1357	EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.72	13.82
	<i>For Elevated Installation >10' To 15', Add</i>	2.76	
	<i>For Elevated Installation >15' To 20', Add</i>	5.53	
	<i>For Elevated Installation >20' To 25', Add</i>	6.91	
	<i>For Elevated Installation >25' To 30', Add</i>	9.67	
	<i>For Elevated Installation >30' To 35', Add</i>	11.05	
	<i>For Elevated Installation >35' To 40', Add</i>	13.82	
	<i>For Elevated Installation >40', Add</i>	15.20	
	<i>For Work In Restricted Working Space, Add</i>	8.29	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1358 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.48	16.00
For Elevated Installation >10' To 15', Add	3.20	
For Elevated Installation >15' To 20', Add	6.40	
For Elevated Installation >20' To 25', Add	8.00	
For Elevated Installation >25' To 30', Add	11.20	
For Elevated Installation >30' To 35', Add	12.80	
For Elevated Installation >35' To 40', Add	16.00	
For Elevated Installation >40', Add	17.60	
For Work In Restricted Working Space, Add	9.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.60	
26 05 33 13-1359 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.62	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.55	
For Elevated Installation >35' To 40', Add	18.19	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-1360 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	38.95	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-1361 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.34	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.46	
For Elevated Installation >25' To 30', Add	7.64	
For Elevated Installation >30' To 35', Add	8.73	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.55	
26 05 33 13-1362 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.17	13.82
For Elevated Installation >10' To 15', Add	2.76	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.67	
For Elevated Installation >30' To 35', Add	11.05	
For Elevated Installation >35' To 40', Add	13.82	
For Elevated Installation >40', Add	15.20	
For Work In Restricted Working Space, Add	8.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-1363 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.08	16.00
For Elevated Installation >10' To 15', Add	3.20	
For Elevated Installation >15' To 20', Add	6.40	
For Elevated Installation >20' To 25', Add	8.00	
For Elevated Installation >25' To 30', Add	11.20	
For Elevated Installation >30' To 35', Add	12.80	
For Elevated Installation >35' To 40', Add	16.00	
For Elevated Installation >40', Add	17.60	
For Work In Restricted Working Space, Add	9.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.60	
26 05 33 13-1364 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.42	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.55	
For Elevated Installation >35' To 40', Add	18.19	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-1365 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.98	20.37
For Elevated Installation >10' To 15', Add	4.07	
For Elevated Installation >15' To 20', Add	8.14	
For Elevated Installation >20' To 25', Add	10.18	
For Elevated Installation >25' To 30', Add	14.25	
For Elevated Installation >30' To 35', Add	16.29	
For Elevated Installation >35' To 40', Add	20.36	
For Elevated Installation >40', Add	22.40	
For Work In Restricted Working Space, Add	12.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1366	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.12	9.46
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.78	
			<i>For Elevated Installation >20' To 25', Add</i>	4.73	
			<i>For Elevated Installation >25' To 30', Add</i>	6.62	
			<i>For Elevated Installation >30' To 35', Add</i>	7.56	
			<i>For Elevated Installation >35' To 40', Add</i>	9.46	
			<i>For Elevated Installation >40', Add</i>	10.40	
			<i>For Work In Restricted Working Space, Add</i>	5.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.67	
26 05 33	13-1367	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.50	10.91
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.63	
			<i>For Elevated Installation >30' To 35', Add</i>	8.72	
			<i>For Elevated Installation >35' To 40', Add</i>	10.91	
			<i>For Elevated Installation >40', Add</i>	12.00	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33	13-1368	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.49	13.82
			<i>For Elevated Installation >10' To 15', Add</i>	2.76	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.91	
			<i>For Elevated Installation >25' To 30', Add</i>	9.67	
			<i>For Elevated Installation >30' To 35', Add</i>	11.05	
			<i>For Elevated Installation >35' To 40', Add</i>	13.82	
			<i>For Elevated Installation >40', Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	8.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33	13-1369	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	58.42	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1370	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.75	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.54	
			<i>For Elevated Installation >35' To 40', Add</i>	18.18	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-1371	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.86	20.37
			<i>For Elevated Installation >10' To 15', Add</i>	4.07	
			<i>For Elevated Installation >15' To 20', Add</i>	8.14	
			<i>For Elevated Installation >20' To 25', Add</i>	10.18	
			<i>For Elevated Installation >25' To 30', Add</i>	14.25	
			<i>For Elevated Installation >30' To 35', Add</i>	16.29	
			<i>For Elevated Installation >35' To 40', Add</i>	20.36	
			<i>For Elevated Installation >40', Add</i>	22.40	
			<i>For Work In Restricted Working Space, Add</i>	12.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33	13-1372	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.42	9.46
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.78	
			<i>For Elevated Installation >20' To 25', Add</i>	4.73	
			<i>For Elevated Installation >25' To 30', Add</i>	6.62	
			<i>For Elevated Installation >30' To 35', Add</i>	7.56	
			<i>For Elevated Installation >35' To 40', Add</i>	9.46	
			<i>For Elevated Installation >40', Add</i>	10.40	
			<i>For Work In Restricted Working Space, Add</i>	5.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.67	
26 05 33	13-1373	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.81	10.91
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.63	
			<i>For Elevated Installation >30' To 35', Add</i>	8.72	
			<i>For Elevated Installation >35' To 40', Add</i>	10.91	
			<i>For Elevated Installation >40', Add</i>	12.00	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1374 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.96	13.82
For Elevated Installation >10' To 15', Add	2.76	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.67	
For Elevated Installation >30' To 35', Add	11.05	
For Elevated Installation >35' To 40', Add	13.82	
For Elevated Installation >40', Add	15.20	
For Work In Restricted Working Space, Add	8.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-1375 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.83	16.00
For Elevated Installation >10' To 15', Add	3.20	
For Elevated Installation >15' To 20', Add	6.40	
For Elevated Installation >20' To 25', Add	8.00	
For Elevated Installation >25' To 30', Add	11.20	
For Elevated Installation >30' To 35', Add	12.80	
For Elevated Installation >35' To 40', Add	16.00	
For Elevated Installation >40', Add	17.60	
For Work In Restricted Working Space, Add	9.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.60	
26 05 33 13-1376 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	65.30	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.54	
For Elevated Installation >35' To 40', Add	18.18	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-1377 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.57	20.37
For Elevated Installation >10' To 15', Add	4.07	
For Elevated Installation >15' To 20', Add	8.14	
For Elevated Installation >20' To 25', Add	10.18	
For Elevated Installation >25' To 30', Add	14.25	
For Elevated Installation >30' To 35', Add	16.29	
For Elevated Installation >35' To 40', Add	20.36	
For Elevated Installation >40', Add	22.40	
For Work In Restricted Working Space, Add	12.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 05 33 13-1378 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	100.01	24.72
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.89	
For Elevated Installation >20' To 25', Add	12.36	
For Elevated Installation >25' To 30', Add	17.31	
For Elevated Installation >30' To 35', Add	19.78	
For Elevated Installation >35' To 40', Add	24.73	
For Elevated Installation >40', Add	27.20	
For Work In Restricted Working Space, Add	14.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.84	
26 05 33 13-1379 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	130.22	34.18
For Elevated Installation >10' To 15', Add	6.84	
For Elevated Installation >15' To 20', Add	13.67	
For Elevated Installation >20' To 25', Add	17.09	
For Elevated Installation >25' To 30', Add	23.93	
For Elevated Installation >30' To 35', Add	27.34	
For Elevated Installation >35' To 40', Add	34.18	
For Elevated Installation >40', Add	37.60	
For Work In Restricted Working Space, Add	20.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.51	
26 05 33 13-1380 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.59	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-1381 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.12	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.63	
For Elevated Installation >30' To 35', Add	8.72	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1382	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.30	13.82
			<i>For Elevated Installation >10' To 15', Add</i>	2.76	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.91	
			<i>For Elevated Installation >25' To 30', Add</i>	9.67	
			<i>For Elevated Installation >30' To 35', Add</i>	11.05	
			<i>For Elevated Installation >35' To 40', Add</i>	13.82	
			<i>For Elevated Installation >40', Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	8.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33	13-1383	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.23	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1384	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	66.85	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.54	
			<i>For Elevated Installation >35' To 40', Add</i>	18.18	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-1385	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	75.29	20.37
			<i>For Elevated Installation >10' To 15', Add</i>	4.07	
			<i>For Elevated Installation >15' To 20', Add</i>	8.14	
			<i>For Elevated Installation >20' To 25', Add</i>	10.18	
			<i>For Elevated Installation >25' To 30', Add</i>	14.25	
			<i>For Elevated Installation >30' To 35', Add</i>	16.29	
			<i>For Elevated Installation >35' To 40', Add</i>	20.36	
			<i>For Elevated Installation >40', Add</i>	22.40	
			<i>For Work In Restricted Working Space, Add</i>	12.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33	13-1386	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	102.41	24.72
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.89	
			<i>For Elevated Installation >20' To 25', Add</i>	12.36	
			<i>For Elevated Installation >25' To 30', Add</i>	17.31	
			<i>For Elevated Installation >30' To 35', Add</i>	19.78	
			<i>For Elevated Installation >35' To 40', Add</i>	24.73	
			<i>For Elevated Installation >40', Add</i>	27.20	
			<i>For Work In Restricted Working Space, Add</i>	14.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.84	
26 05 33	13-1387	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	135.39	34.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.84	
			<i>For Elevated Installation >15' To 20', Add</i>	13.67	
			<i>For Elevated Installation >20' To 25', Add</i>	17.09	
			<i>For Elevated Installation >25' To 30', Add</i>	23.93	
			<i>For Elevated Installation >30' To 35', Add</i>	27.34	
			<i>For Elevated Installation >35' To 40', Add</i>	34.18	
			<i>For Elevated Installation >40', Add</i>	37.60	
			<i>For Work In Restricted Working Space, Add</i>	20.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.51	
26 05 33	13-1388	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	160.68	38.55
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.83	
			<i>For Elevated Installation >35' To 40', Add</i>	38.54	
			<i>For Elevated Installation >40', Add</i>	42.39	
			<i>For Work In Restricted Working Space, Add</i>	23.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.12	
26 05 33	13-1389	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	189.80	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1390 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.91	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-1391 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.46	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.63	
For Elevated Installation >30' To 35', Add	8.72	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-1392 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.67	13.82
For Elevated Installation >10' To 15', Add	2.76	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.67	
For Elevated Installation >30' To 35', Add	11.05	
For Elevated Installation >35' To 40', Add	13.82	
For Elevated Installation >40', Add	15.20	
For Work In Restricted Working Space, Add	8.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-1393 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.89	16.00
For Elevated Installation >10' To 15', Add	3.20	
For Elevated Installation >15' To 20', Add	6.40	
For Elevated Installation >20' To 25', Add	8.00	
For Elevated Installation >25' To 30', Add	11.20	
For Elevated Installation >30' To 35', Add	12.80	
For Elevated Installation >35' To 40', Add	16.00	
For Elevated Installation >40', Add	17.60	
For Work In Restricted Working Space, Add	9.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.60	
26 05 33 13-1394 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.53	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.54	
For Elevated Installation >35' To 40', Add	18.18	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-1395 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	76.77	20.37
For Elevated Installation >10' To 15', Add	4.07	
For Elevated Installation >15' To 20', Add	8.14	
For Elevated Installation >20' To 25', Add	10.18	
For Elevated Installation >25' To 30', Add	14.25	
For Elevated Installation >30' To 35', Add	16.29	
For Elevated Installation >35' To 40', Add	20.36	
For Elevated Installation >40', Add	22.40	
For Work In Restricted Working Space, Add	12.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 05 33 13-1396 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	111.97	24.72
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.89	
For Elevated Installation >20' To 25', Add	12.36	
For Elevated Installation >25' To 30', Add	17.31	
For Elevated Installation >30' To 35', Add	19.78	
For Elevated Installation >35' To 40', Add	24.73	
For Elevated Installation >40', Add	27.20	
For Work In Restricted Working Space, Add	14.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.84	
26 05 33 13-1397 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	143.13	34.18
For Elevated Installation >10' To 15', Add	6.84	
For Elevated Installation >15' To 20', Add	13.67	
For Elevated Installation >20' To 25', Add	17.09	
For Elevated Installation >25' To 30', Add	23.93	
For Elevated Installation >30' To 35', Add	27.34	
For Elevated Installation >35' To 40', Add	34.18	
For Elevated Installation >40', Add	37.60	
For Work In Restricted Working Space, Add	20.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.51	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1398	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	162.33	38.55
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.83	
			<i>For Elevated Installation >35' To 40', Add</i>	38.54	
			<i>For Elevated Installation >40', Add</i>	42.39	
			<i>For Work In Restricted Working Space, Add</i>	23.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.12	
26 05 33	13-1399	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	194.22	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33	13-1400	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	284.16	69.09
			<i>For Elevated Installation >10' To 15', Add</i>	13.82	
			<i>For Elevated Installation >15' To 20', Add</i>	27.63	
			<i>For Elevated Installation >20' To 25', Add</i>	34.54	
			<i>For Elevated Installation >25' To 30', Add</i>	48.36	
			<i>For Elevated Installation >30' To 35', Add</i>	55.27	
			<i>For Elevated Installation >35' To 40', Add</i>	69.09	
			<i>For Elevated Installation >40', Add</i>	75.99	
			<i>For Work In Restricted Working Space, Add</i>	41.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.45	
26 05 33	13-1401	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.51	9.46
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.78	
			<i>For Elevated Installation >20' To 25', Add</i>	4.73	
			<i>For Elevated Installation >25' To 30', Add</i>	6.62	
			<i>For Elevated Installation >30' To 35', Add</i>	7.56	
			<i>For Elevated Installation >35' To 40', Add</i>	9.46	
			<i>For Elevated Installation >40', Add</i>	10.40	
			<i>For Work In Restricted Working Space, Add</i>	5.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.67	
26 05 33	13-1402	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.07	10.91
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.63	
			<i>For Elevated Installation >30' To 35', Add</i>	8.72	
			<i>For Elevated Installation >35' To 40', Add</i>	10.91	
			<i>For Elevated Installation >40', Add</i>	12.00	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33	13-1403	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.32	13.82
			<i>For Elevated Installation >10' To 15', Add</i>	2.76	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.91	
			<i>For Elevated Installation >25' To 30', Add</i>	9.67	
			<i>For Elevated Installation >30' To 35', Add</i>	11.05	
			<i>For Elevated Installation >35' To 40', Add</i>	13.82	
			<i>For Elevated Installation >40', Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	8.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33	13-1404	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.10	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1405	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.99	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.54	
			<i>For Elevated Installation >35' To 40', Add</i>	18.18	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1406 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.25	20.37
For Elevated Installation >10' To 15', Add	4.07	
For Elevated Installation >15' To 20', Add	8.14	
For Elevated Installation >20' To 25', Add	10.18	
For Elevated Installation >25' To 30', Add	14.25	
For Elevated Installation >30' To 35', Add	16.29	
For Elevated Installation >35' To 40', Add	20.36	
For Elevated Installation >40', Add	22.40	
For Work In Restricted Working Space, Add	12.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 05 33 13-1407 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	121.67	24.72
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.89	
For Elevated Installation >20' To 25', Add	12.36	
For Elevated Installation >25' To 30', Add	17.31	
For Elevated Installation >30' To 35', Add	19.78	
For Elevated Installation >35' To 40', Add	24.73	
For Elevated Installation >40', Add	27.20	
For Work In Restricted Working Space, Add	14.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.84	
26 05 33 13-1408 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	153.41	34.18
For Elevated Installation >10' To 15', Add	6.84	
For Elevated Installation >15' To 20', Add	13.67	
For Elevated Installation >20' To 25', Add	17.09	
For Elevated Installation >25' To 30', Add	23.93	
For Elevated Installation >30' To 35', Add	27.34	
For Elevated Installation >35' To 40', Add	34.18	
For Elevated Installation >40', Add	37.60	
For Work In Restricted Working Space, Add	20.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.51	
26 05 33 13-1409 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	171.59	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.83	
For Elevated Installation >35' To 40', Add	38.54	
For Elevated Installation >40', Add	42.39	
For Work In Restricted Working Space, Add	23.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.12	
26 05 33 13-1410 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	209.84	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.11	
26 05 33 13-1411 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	307.52	69.09
For Elevated Installation >10' To 15', Add	13.82	
For Elevated Installation >15' To 20', Add	27.63	
For Elevated Installation >20' To 25', Add	34.54	
For Elevated Installation >25' To 30', Add	48.36	
For Elevated Installation >30' To 35', Add	55.27	
For Elevated Installation >35' To 40', Add	69.09	
For Elevated Installation >40', Add	75.99	
For Work In Restricted Working Space, Add	41.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.45	
26 05 33 13-1412 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.46	9.46
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Work In Restricted Working Space, Add	5.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-1413 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.99	10.91
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.63	
For Elevated Installation >30' To 35', Add	8.72	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Work In Restricted Working Space, Add	6.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1414	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	54.78	13.82
			<i>For Elevated Installation >10' To 15', Add</i>	2.76	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.91	
			<i>For Elevated Installation >25' To 30', Add</i>	9.67	
			<i>For Elevated Installation >30' To 35', Add</i>	11.05	
			<i>For Elevated Installation >35' To 40', Add</i>	13.82	
			<i>For Elevated Installation >40', Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	8.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33	13-1415	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.42	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33	13-1416	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.95	18.18
			<i>For Elevated Installation >10' To 15', Add</i>	3.64	
			<i>For Elevated Installation >15' To 20', Add</i>	7.27	
			<i>For Elevated Installation >20' To 25', Add</i>	9.09	
			<i>For Elevated Installation >25' To 30', Add</i>	12.73	
			<i>For Elevated Installation >30' To 35', Add</i>	14.54	
			<i>For Elevated Installation >35' To 40', Add</i>	18.18	
			<i>For Elevated Installation >40', Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	10.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33	13-1417	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	85.48	20.37
			<i>For Elevated Installation >10' To 15', Add</i>	4.07	
			<i>For Elevated Installation >15' To 20', Add</i>	8.14	
			<i>For Elevated Installation >20' To 25', Add</i>	10.18	
			<i>For Elevated Installation >25' To 30', Add</i>	14.25	
			<i>For Elevated Installation >30' To 35', Add</i>	16.29	
			<i>For Elevated Installation >35' To 40', Add</i>	20.36	
			<i>For Elevated Installation >40', Add</i>	22.40	
			<i>For Work In Restricted Working Space, Add</i>	12.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33	13-1418	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	133.60	24.72
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.89	
			<i>For Elevated Installation >20' To 25', Add</i>	12.36	
			<i>For Elevated Installation >25' To 30', Add</i>	17.31	
			<i>For Elevated Installation >30' To 35', Add</i>	19.78	
			<i>For Elevated Installation >35' To 40', Add</i>	24.73	
			<i>For Elevated Installation >40', Add</i>	27.20	
			<i>For Work In Restricted Working Space, Add</i>	14.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.84	
26 05 33	13-1419	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	167.48	34.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.84	
			<i>For Elevated Installation >15' To 20', Add</i>	13.67	
			<i>For Elevated Installation >20' To 25', Add</i>	17.09	
			<i>For Elevated Installation >25' To 30', Add</i>	23.93	
			<i>For Elevated Installation >30' To 35', Add</i>	27.34	
			<i>For Elevated Installation >35' To 40', Add</i>	34.18	
			<i>For Elevated Installation >40', Add</i>	37.60	
			<i>For Work In Restricted Working Space, Add</i>	20.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.51	
26 05 33	13-1420	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	194.79	38.55
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.83	
			<i>For Elevated Installation >35' To 40', Add</i>	38.54	
			<i>For Elevated Installation >40', Add</i>	42.39	
			<i>For Work In Restricted Working Space, Add</i>	23.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.12	
26 05 33	13-1421	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	233.30	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1422 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	323.53	69.09
<i>For Elevated Installation >10' To 15', Add</i>	13.82	
<i>For Elevated Installation >15' To 20', Add</i>	27.63	
<i>For Elevated Installation >20' To 25', Add</i>	34.54	
<i>For Elevated Installation >25' To 30', Add</i>	48.36	
<i>For Elevated Installation >30' To 35', Add</i>	55.27	
<i>For Elevated Installation >35' To 40', Add</i>	69.09	
<i>For Elevated Installation >40', Add</i>	75.99	
<i>For Work In Restricted Working Space, Add</i>	41.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.45	
26 05 33 13-1423 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.45	9.46
<i>For Elevated Installation >10' To 15', Add</i>	1.89	
<i>For Elevated Installation >15' To 20', Add</i>	3.78	
<i>For Elevated Installation >20' To 25', Add</i>	4.73	
<i>For Elevated Installation >25' To 30', Add</i>	6.62	
<i>For Elevated Installation >30' To 35', Add</i>	7.56	
<i>For Elevated Installation >35' To 40', Add</i>	9.46	
<i>For Elevated Installation >40', Add</i>	10.40	
<i>For Work In Restricted Working Space, Add</i>	5.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.67	
26 05 33 13-1424 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.96	10.91
<i>For Elevated Installation >10' To 15', Add</i>	2.18	
<i>For Elevated Installation >15' To 20', Add</i>	4.36	
<i>For Elevated Installation >20' To 25', Add</i>	5.45	
<i>For Elevated Installation >25' To 30', Add</i>	7.63	
<i>For Elevated Installation >30' To 35', Add</i>	8.72	
<i>For Elevated Installation >35' To 40', Add</i>	10.91	
<i>For Elevated Installation >40', Add</i>	12.00	
<i>For Work In Restricted Working Space, Add</i>	6.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33 13-1425 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.21	13.82
<i>For Elevated Installation >10' To 15', Add</i>	2.76	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.91	
<i>For Elevated Installation >25' To 30', Add</i>	9.67	
<i>For Elevated Installation >30' To 35', Add</i>	11.05	
<i>For Elevated Installation >35' To 40', Add</i>	13.82	
<i>For Elevated Installation >40', Add</i>	15.20	
<i>For Work In Restricted Working Space, Add</i>	8.29	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33 13-1426 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	67.78	16.00
<i>For Elevated Installation >10' To 15', Add</i>	3.20	
<i>For Elevated Installation >15' To 20', Add</i>	6.40	
<i>For Elevated Installation >20' To 25', Add</i>	8.00	
<i>For Elevated Installation >25' To 30', Add</i>	11.20	
<i>For Elevated Installation >30' To 35', Add</i>	12.80	
<i>For Elevated Installation >35' To 40', Add</i>	16.00	
<i>For Elevated Installation >40', Add</i>	17.60	
<i>For Work In Restricted Working Space, Add</i>	9.60	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	
26 05 33 13-1427 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	78.98	18.18
<i>For Elevated Installation >10' To 15', Add</i>	3.64	
<i>For Elevated Installation >15' To 20', Add</i>	7.27	
<i>For Elevated Installation >20' To 25', Add</i>	9.09	
<i>For Elevated Installation >25' To 30', Add</i>	12.73	
<i>For Elevated Installation >30' To 35', Add</i>	14.54	
<i>For Elevated Installation >35' To 40', Add</i>	18.18	
<i>For Elevated Installation >40', Add</i>	20.00	
<i>For Work In Restricted Working Space, Add</i>	10.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.91	
26 05 33 13-1428 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	96.10	20.37
<i>For Elevated Installation >10' To 15', Add</i>	4.07	
<i>For Elevated Installation >15' To 20', Add</i>	8.14	
<i>For Elevated Installation >20' To 25', Add</i>	10.18	
<i>For Elevated Installation >25' To 30', Add</i>	14.25	
<i>For Elevated Installation >30' To 35', Add</i>	16.29	
<i>For Elevated Installation >35' To 40', Add</i>	20.36	
<i>For Elevated Installation >40', Add</i>	22.40	
<i>For Work In Restricted Working Space, Add</i>	12.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.22	
26 05 33 13-1429 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	146.22	24.72
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.89	
<i>For Elevated Installation >20' To 25', Add</i>	12.36	
<i>For Elevated Installation >25' To 30', Add</i>	17.31	
<i>For Elevated Installation >30' To 35', Add</i>	19.78	
<i>For Elevated Installation >35' To 40', Add</i>	24.73	
<i>For Elevated Installation >40', Add</i>	27.20	
<i>For Work In Restricted Working Space, Add</i>	14.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.84	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1430	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	185.51	34.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.84	
			<i>For Elevated Installation >15' To 20', Add</i>	13.67	
			<i>For Elevated Installation >20' To 25', Add</i>	17.09	
			<i>For Elevated Installation >25' To 30', Add</i>	23.93	
			<i>For Elevated Installation >30' To 35', Add</i>	27.34	
			<i>For Elevated Installation >35' To 40', Add</i>	34.18	
			<i>For Elevated Installation >40', Add</i>	37.60	
			<i>For Work In Restricted Working Space, Add</i>	20.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.51	
26 05 33	13-1431	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	219.14	38.55
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.83	
			<i>For Elevated Installation >35' To 40', Add</i>	38.54	
			<i>For Elevated Installation >40', Add</i>	42.39	
			<i>For Work In Restricted Working Space, Add</i>	23.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.12	
26 05 33	13-1432	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	274.35	50.18
			<i>For Elevated Installation >10' To 15', Add</i>	10.04	
			<i>For Elevated Installation >15' To 20', Add</i>	20.07	
			<i>For Elevated Installation >20' To 25', Add</i>	25.09	
			<i>For Elevated Installation >25' To 30', Add</i>	35.13	
			<i>For Elevated Installation >30' To 35', Add</i>	40.14	
			<i>For Elevated Installation >35' To 40', Add</i>	50.18	
			<i>For Elevated Installation >40', Add</i>	55.20	
			<i>For Work In Restricted Working Space, Add</i>	30.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.11	
26 05 33	13-1433	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	355.48	69.09
			<i>For Elevated Installation >10' To 15', Add</i>	13.82	
			<i>For Elevated Installation >15' To 20', Add</i>	27.63	
			<i>For Elevated Installation >20' To 25', Add</i>	34.54	
			<i>For Elevated Installation >25' To 30', Add</i>	48.36	
			<i>For Elevated Installation >30' To 35', Add</i>	55.27	
			<i>For Elevated Installation >35' To 40', Add</i>	69.09	
			<i>For Elevated Installation >40', Add</i>	75.99	
			<i>For Work In Restricted Working Space, Add</i>	41.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.45	
26 05 33	13-1434	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.47	9.46
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.78	
			<i>For Elevated Installation >20' To 25', Add</i>	4.73	
			<i>For Elevated Installation >25' To 30', Add</i>	6.62	
			<i>For Elevated Installation >30' To 35', Add</i>	7.56	
			<i>For Elevated Installation >35' To 40', Add</i>	9.46	
			<i>For Elevated Installation >40', Add</i>	10.40	
			<i>For Work In Restricted Working Space, Add</i>	5.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.67	
26 05 33	13-1435	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.10	10.91
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.63	
			<i>For Elevated Installation >30' To 35', Add</i>	8.72	
			<i>For Elevated Installation >35' To 40', Add</i>	10.91	
			<i>For Elevated Installation >40', Add</i>	12.00	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.54	
26 05 33	13-1436	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	59.85	13.82
			<i>For Elevated Installation >10' To 15', Add</i>	2.76	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.91	
			<i>For Elevated Installation >25' To 30', Add</i>	9.67	
			<i>For Elevated Installation >30' To 35', Add</i>	11.05	
			<i>For Elevated Installation >35' To 40', Add</i>	13.82	
			<i>For Elevated Installation >40', Add</i>	15.20	
			<i>For Work In Restricted Working Space, Add</i>	8.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33	13-1437	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.96	16.00
			<i>For Elevated Installation >10' To 15', Add</i>	3.20	
			<i>For Elevated Installation >15' To 20', Add</i>	6.40	
			<i>For Elevated Installation >20' To 25', Add</i>	8.00	
			<i>For Elevated Installation >25' To 30', Add</i>	11.20	
			<i>For Elevated Installation >30' To 35', Add</i>	12.80	
			<i>For Elevated Installation >35' To 40', Add</i>	16.00	
			<i>For Elevated Installation >40', Add</i>	17.60	
			<i>For Work In Restricted Working Space, Add</i>	9.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1438 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	87.50	18.18
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.27	
For Elevated Installation >20' To 25', Add	9.09	
For Elevated Installation >25' To 30', Add	12.73	
For Elevated Installation >30' To 35', Add	14.54	
For Elevated Installation >35' To 40', Add	18.18	
For Elevated Installation >40', Add	20.00	
For Work In Restricted Working Space, Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 33 13-1439 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	104.64	20.37
For Elevated Installation >10' To 15', Add	4.07	
For Elevated Installation >15' To 20', Add	8.14	
For Elevated Installation >20' To 25', Add	10.18	
For Elevated Installation >25' To 30', Add	14.25	
For Elevated Installation >30' To 35', Add	16.29	
For Elevated Installation >35' To 40', Add	20.36	
For Elevated Installation >40', Add	22.40	
For Work In Restricted Working Space, Add	12.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 05 33 13-1440 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	163.06	24.72
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.89	
For Elevated Installation >20' To 25', Add	12.36	
For Elevated Installation >25' To 30', Add	17.31	
For Elevated Installation >30' To 35', Add	19.78	
For Elevated Installation >35' To 40', Add	24.73	
For Elevated Installation >40', Add	27.20	
For Work In Restricted Working Space, Add	14.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.84	
26 05 33 13-1441 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	212.53	34.18
For Elevated Installation >10' To 15', Add	6.84	
For Elevated Installation >15' To 20', Add	13.67	
For Elevated Installation >20' To 25', Add	17.09	
For Elevated Installation >25' To 30', Add	23.93	
For Elevated Installation >30' To 35', Add	27.34	
For Elevated Installation >35' To 40', Add	34.18	
For Elevated Installation >40', Add	37.60	
For Work In Restricted Working Space, Add	20.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.51	
26 05 33 13-1442 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	234.09	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.83	
For Elevated Installation >35' To 40', Add	38.54	
For Elevated Installation >40', Add	42.39	
For Work In Restricted Working Space, Add	23.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.12	
26 05 33 13-1443 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	286.94	50.18
For Elevated Installation >10' To 15', Add	10.04	
For Elevated Installation >15' To 20', Add	20.07	
For Elevated Installation >20' To 25', Add	25.09	
For Elevated Installation >25' To 30', Add	35.13	
For Elevated Installation >30' To 35', Add	40.14	
For Elevated Installation >35' To 40', Add	50.18	
For Elevated Installation >40', Add	55.20	
For Work In Restricted Working Space, Add	30.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.11	
26 05 33 13-1444 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	360.04	69.09
For Elevated Installation >10' To 15', Add	13.82	
For Elevated Installation >15' To 20', Add	27.63	
For Elevated Installation >20' To 25', Add	34.54	
For Elevated Installation >25' To 30', Add	48.36	
For Elevated Installation >30' To 35', Add	55.27	
For Elevated Installation >35' To 40', Add	69.09	
For Elevated Installation >40', Add	75.99	
For Work In Restricted Working Space, Add	41.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.45	
26 05 33 13-1445 Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0059)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1446 Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1445)</small>		
Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-1447 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	6.70	2.24
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.84	
For Work In Restricted Working Space, Add	1.68	
26 05 33 13-1448 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.64	2.46
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.92	
For Work In Restricted Working Space, Add	1.85	
26 05 33 13-1449 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.83	2.69
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.01	
For Work In Restricted Working Space, Add	2.02	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1450	LF	1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.05 1.09 2.18	2.91
26 05 33	13-1451	LF	1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	11.27 1.17 2.35	3.13
26 05 33	13-1452	LF	2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	13.55 1.34 2.69	3.58
26 05 33	13-1453	LF	2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	18.45 1.68 3.36	4.48
26 05 33	13-1454	LF	3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.97 2.01 4.03	5.37
26 05 33	13-1455	LF	3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.23 2.52 5.03	6.72
26 05 33	13-1456	LF	4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	34.82 3.19 6.38	8.50
26 05 33	13-1457	LF	5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	46.26 4.03 8.06	10.74
26 05 33	13-1458	LF	6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	59.12 5.04 10.07	13.43
26 05 33 13-1459 Aluminum 90 Degree Elbows <small>(26 05 33 13-1445)</small>					
26 05 33	13-1460	EA	1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	40.91 8.73	11.63
26 05 33	13-1461	EA	1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	51.78 9.90	13.20
26 05 33	13-1462	EA	1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	63.03 11.41	15.22
26 05 33	13-1463	EA	2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	80.43 13.09	17.46
26 05 33	13-1464	EA	2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	115.16 15.95	21.26
26 05 33	13-1465	EA	3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.59 20.64	27.52
26 05 33	13-1466	EA	3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	226.59 23.16	30.88
26 05 33	13-1467	EA	4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	273.91 29.03	38.72
26 05 33	13-1468	EA	5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	681.49 47.33	63.11
26 05 33	13-1469	EA	6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	961.82 71.16	94.88
26 05 33 13-1470 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1445)</small>					
26 05 33	13-1471	EA	1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.09 3.36 3.36	4.48
26 05 33	13-1472	EA	3/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.16 4.36 4.36	5.82
26 05 33	13-1473	EA	1" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48 5.37 5.37	7.16
26 05 33	13-1474	EA	1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79 6.04 6.04	8.06
26 05 33	13-1475	EA	1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.44 7.38 7.38	9.85
26 05 33	13-1476	EA	2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.02 8.90 8.90	11.86
26 05 33	13-1477	EA	2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.04 10.57 10.57	14.09
26 05 33	13-1478	EA	3" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.43 12.08 12.08	16.11
26 05 33	13-1479	EA	3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.05 13.09 13.09	17.46
26 05 33	13-1480	EA	4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.29 14.10 14.10	18.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1481 EA 5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.30 18.80 18.80	25.06
26 05 33 13-1482 EA 6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.09 28.19 28.19	37.59
26 05 33 13-1483 Schedule 40 Polyvinyl Chloride (PVC) Conduit <small>(26 05 33 13-0059)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1484 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings <small>(26 05 33 13-1483)</small> Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-1485 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.32 0.47 0.79	1.71
26 05 33 13-1486 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.08 0.58 0.95	1.88
26 05 33 13-1487 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	7.56 0.79 1.27	2.20
26 05 33 13-1488 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.04 1.00 1.59	2.51
26 05 33 13-1489 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	10.63 1.19 1.89	2.93
26 05 33 13-1490 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	12.73 1.51 2.36	3.35
26 05 33 13-1491 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	16.90 2.24 3.43	3.97
26 05 33 13-1492 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	19.79 2.65 4.05	4.60
26 05 33 13-1493 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.19 3.33 5.07	5.43
26 05 33 13-1494 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	28.37 3.75 5.75	6.70
26 05 33 13-1495 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	40.50 5.42 8.29	9.41
26 05 33 13-1496 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	53.78 7.17 10.98	12.55
26 05 33 13-1497 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows <small>(26 05 33 13-1483)</small> See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-1498 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	22.35 1.41 2.60	8.37
26 05 33 13-1499 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.73 1.58 2.90	9.20
26 05 33 13-1500 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	28.85 1.98 3.56	10.46
26 05 33 13-1501 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	37.36 2.65 4.71	13.38
26 05 33 13-1502 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	47.12 3.41 6.03	16.73
26 05 33 13-1503 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	59.59 4.44 7.78	20.91
26 05 33 13-1504 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	75.65 6.36 10.79	25.10

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1505	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	94.28 8.93 14.70	29.29
26 05 33	13-1506	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	118.19 11.77 19.14	35.56
26 05 33	13-1507	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	142.26 14.65 23.65	41.84
26 05 33	13-1508	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	197.17 23.15 36.33	52.29
26 05 33	13-1509	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	241.57 29.02 45.33	62.75
26 05 33 13-1510 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows <small>(26 05 33 13-1483)</small>					
See CSI section 26 05 33 13-2518 for conduit field bending.					
26 05 33	13-1511	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	22.35 1.41 2.60	8.37
26 05 33	13-1512	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.63 1.56 2.87	9.20
26 05 33	13-1513	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	28.70 1.95 3.51	10.46
26 05 33	13-1514	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	36.94 2.54 4.56	13.38
26 05 33	13-1515	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	46.18 3.18 5.70	16.73
26 05 33	13-1516	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	59.09 4.31 7.61	20.91
26 05 33	13-1517	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	74.71 6.13 10.46	25.10
26 05 33	13-1518	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	93.09 8.63 14.28	29.29
26 05 33	13-1519	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	114.86 10.94 17.98	35.56
26 05 33	13-1520	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	139.40 13.93 22.65	41.84
26 05 33	13-1521	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	193.47 22.22 35.03	52.29
26 05 33	13-1522	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	230.54 26.26 41.47	62.75
26 05 33 13-1523 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow <small>(26 05 33 13-1483)</small>					
26 05 33	13-1524	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	89.43 17.48	27.63
26 05 33	13-1525	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	104.86 20.70	32.00
26 05 33	13-1526	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	118.69 23.36	36.37
26 05 33	13-1527	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	141.59 29.56	40.00
26 05 33	13-1528	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	186.58 40.21	50.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1529 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	243.26 50.96	68.36
26 05 33 13-1530 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	293.83 64.30	77.09
26 05 33 13-1531 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	350.50 72.49	100.36
26 05 33 13-1532 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow <small>(26 05 33 13-1483)</small>		
26 05 33 13-1533 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	95.70 19.68	27.63
26 05 33 13-1534 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	119.96 25.99	32.00
26 05 33 13-1535 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	140.30 30.93	36.37
26 05 33 13-1536 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	152.29 33.30	40.00
26 05 33 13-1537 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	219.54 51.75	50.18
26 05 33 13-1538 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	291.20 67.74	68.36
26 05 33 13-1539 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	323.34 74.62	77.09
26 05 33 13-1540 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	386.23 85.00	100.36
26 05 33 13-1541 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow <small>(26 05 33 13-1483)</small>		
26 05 33 13-1542 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	112.61 25.60	27.63
26 05 33 13-1543 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	127.04 28.46	32.00
26 05 33 13-1544 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	144.46 32.38	36.37
26 05 33 13-1545 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	172.46 40.36	40.00
26 05 33 13-1546 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	231.83 56.05	50.18
26 05 33 13-1547 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	301.51 71.35	68.36
26 05 33 13-1548 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	362.63 88.38	77.09
26 05 33 13-1549 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	421.51 97.35	100.36
26 05 33 13-1550 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow <small>(26 05 33 13-1483)</small>		
26 05 33 13-1551 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	116.07 26.81	27.63
26 05 33 13-1552 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	148.01 35.80	32.00
26 05 33 13-1553 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	161.09 38.20	36.37
26 05 33 13-1554 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	173.21 40.62	40.00
26 05 33 13-1555 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	258.87 65.51	50.18
26 05 33 13-1556 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	362.12 92.56	68.36
26 05 33 13-1557 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	417.83 107.70	77.09
26 05 33 13-1558 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	486.88 120.23	100.36
26 05 33 13-1559 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	778.62 190.70	163.36
26 05 33 13-1560 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	1,139.05 275.76	246.15
26 05 33 13-1561 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow <small>(26 05 33 13-1483)</small>		
26 05 33 13-1562 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	129.33 31.45	27.63
26 05 33 13-1563 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	151.56 37.05	32.00
26 05 33 13-1564 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	171.76 41.94	36.37
26 05 33 13-1565 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	210.07 53.52	40.00
26 05 33 13-1566 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	285.28 74.76	50.18

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1567	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	405.47	68.36
			<i>For Schedule 80, Add</i>	107.73	
26 05 33	13-1568	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	459.28	77.09
			<i>For Schedule 80, Add</i>	122.20	
26 05 33	13-1569	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	558.82	100.36
			<i>For Schedule 80, Add</i>	145.40	
26 05 33	13-1570	EA	5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	820.71	163.36
			<i>For Schedule 80, Add</i>	205.43	
26 05 33	13-1571	EA	6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	1,173.14	246.15
			<i>For Schedule 80, Add</i>	287.69	
26 05 33 13-1572 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1483)					
26 05 33	13-1573	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	15.30	5.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.39	
26 05 33	13-1574	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter	17.63	6.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33	13-1575	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter	20.07	7.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.65	
26 05 33	13-1576	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter	22.61	8.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.27	
26 05 33	13-1577	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	28.01	10.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.85	
26 05 33	13-1578	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter	34.02	12.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-1579	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	46.71	16.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.55	
26 05 33	13-1580	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter	58.92	20.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	
26 05 33	13-1581	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	76.38	27.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.39	
26 05 33	13-1582	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter	92.47	33.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.10	
26 05 33	13-1583	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter	122.35	41.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.37	
26 05 33	13-1584	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter	152.18	52.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.22	
26 05 33 13-1585 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1483)					
26 05 33	13-1586	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	17.94	5.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.77	
26 05 33	13-1587	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	20.41	5.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.39	
26 05 33	13-1588	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	22.92	6.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33	13-1589	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	27.33	7.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.65	
26 05 33	13-1590	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	30.46	8.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.27	
26 05 33	13-1591	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	36.61	9.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.22	
26 05 33	13-1592	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	40.96	10.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.16	
26 05 33	13-1593	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	46.35	12.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-1594	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	54.93	14.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.98	
26 05 33	13-1595	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	60.57	16.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.55	
26 05 33	13-1596	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	76.78	18.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.12	
26 05 33	13-1597	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	86.40	20.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	
26 05 33 13-1598 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1483)					
26 05 33	13-1599	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	16.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.83	
26 05 33	13-1600	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	20.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33	13-1601	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	22.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.43	
26 05 33	13-1602	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	25.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.16	
26 05 33	13-1603	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	27.78	10.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.85	
26 05 33	13-1604	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	33.70	12.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-1605	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	46.08	16.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.55	
26 05 33	13-1606	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	58.04	20.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1607 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	75.26	27.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.39	
26 05 33 13-1608 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	91.31	33.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.10	
26 05 33 13-1609 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	120.07	41.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.37	
26 05 33 13-1610 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	149.44	52.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.22	
26 05 33 13-1611 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover <small>(26 05 33 13-1483)</small>		
26 05 33 13-1612 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	48.00	16.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.55	
26 05 33 13-1613 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	55.78	18.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.12	
26 05 33 13-1614 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	61.94	20.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.69	
26 05 33 13-1615 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	76.53	25.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.83	
26 05 33 13-1616 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	94.58	31.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.53	
26 05 33 13-1617 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	122.73	37.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.24	
26 05 33 13-1618 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	211.83	41.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.37	
26 05 33 13-1619 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	226.04	46.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.52	
26 05 33 13-1620 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	245.44	52.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.22	
26 05 33 13-1621 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	273.86	60.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.50	
26 05 33 13-1622 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1483)</small>		
26 05 33 13-1623 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	64.14	22.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-1624 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	71.83	24.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-1625 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	77.65	26.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.14	
26 05 33 13-1626 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	97.30	31.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.50	
26 05 33 13-1627 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	117.52	38.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.53	
26 05 33 13-1628 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	144.66	44.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.56	
26 05 33 13-1629 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1483)</small>		
26 05 33 13-1630 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	104.90	20.91
26 05 33 13-1631 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	116.69	25.10
26 05 33 13-1632 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	129.27	29.29
26 05 33 13-1633 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	141.08	33.47
26 05 33 13-1634 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	152.54	37.65
26 05 33 13-1635 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	166.55	41.84
26 05 33 13-1636 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	204.05	48.10
26 05 33 13-1637 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	244.68	54.38
26 05 33 13-1638 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	286.46	62.75
26 05 33 13-1639 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	340.90	73.21
26 05 33 13-1640 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	451.48	87.85
26 05 33 13-1641 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	593.86	112.95
26 05 33 13-1642 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1483)</small>		
26 05 33 13-1643 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	13.22	4.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.14	
26 05 33 13-1644 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	15.63	5.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-1645 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	17.97	5.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.39	
26 05 33 13-1646 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	21.52	6.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1647 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	25.13	7.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-1648 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap.....	29.71	8.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.27	
26 05 33 13-1649 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	42.69	9.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.22	
26 05 33 13-1650 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	46.72	10.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.16	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1651	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.92 9.10	12.13
26 05 33	13-1652	EA	4" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.70 9.73	12.96
26 05 33	13-1653	EA	5" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.58 10.98	14.64
26 05 33	13-1654	EA	6" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.22 12.55	16.73
26 05 33 13-1655 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1483)</small>					
26 05 33	13-1656	EA	2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.85 28.24	37.65
26 05 33	13-1657	EA	3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.93 18.83	25.10
26 05 33	13-1658	EA	1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	338.12 31.37	41.84
26 05 33	13-1659	EA	3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	659.80 45.50	60.66
26 05 33 13-1660 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0059)</small> Note: Exposed installation. Excludes supporting strap, hanger and fastening.					
26 05 33 13-1661 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1660)</small> Note: Includes field bending conduit up to and including 1".					
26 05 33	13-1662	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.17	1.71
26 05 33	13-1663	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.33	1.88
26 05 33	13-1664	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.51	2.18
26 05 33	13-1665	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	13.68	2.51
26 05 33	13-1666	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	15.32	2.93
26 05 33	13-1667	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	16.59	3.35
26 05 33	13-1668	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	19.78	3.97
26 05 33	13-1669	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	23.31	4.60
26 05 33	13-1670	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	26.88	5.43
26 05 33	13-1671	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	31.49	6.70
26 05 33	13-1672	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	41.97	9.41
26 05 33	13-1673	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	54.43	12.55
26 05 33 13-1674 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1660)</small>					
26 05 33	13-1675	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	129.86 9.22 12.99 16.76	8.37
26 05 33	13-1676	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	144.99 10.30 14.50 18.70	9.20
26 05 33	13-1677	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	149.37 10.55 14.94 19.33	10.46
26 05 33	13-1678	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	157.89 11.01 15.79 20.57	13.38
26 05 33	13-1679	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	167.50 11.52 16.75 21.98	16.73
26 05 33	13-1680	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	195.28 13.34 19.53 25.72	20.91
26 05 33	13-1681	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	233.89 15.97 23.39 30.81	25.10
26 05 33	13-1682	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	278.58 19.06 27.86 36.65	29.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1683 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	319.94	35.56
<i>For 24" Radius, Add</i>	21.77	
<i>For 36" Radius, Add</i>	31.99	
<i>For 48" Radius, Add</i>	42.22	
26 05 33 13-1684 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	361.29	41.84
<i>For 24" Radius, Add</i>	24.48	
<i>For 36" Radius, Add</i>	36.13	
<i>For 48" Radius, Add</i>	47.78	
26 05 33 13-1685 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	451.62	52.29
<i>For 24" Radius, Add</i>	30.60	
<i>For 36" Radius, Add</i>	45.16	
<i>For 48" Radius, Add</i>	59.72	
26 05 33 13-1686 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	557.98	62.75
<i>For 24" Radius, Add</i>	37.93	
<i>For 36" Radius, Add</i>	55.80	
<i>For 48" Radius, Add</i>	73.67	
26 05 33 13-1687 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1660)</small>		
26 05 33 13-1688 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	110.25	8.37
<i>For 24" Radius, Add</i>	7.75	
<i>For 36" Radius, Add</i>	11.03	
<i>For 48" Radius, Add</i>	14.30	
26 05 33 13-1689 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	123.03	9.20
<i>For 24" Radius, Add</i>	8.65	
<i>For 36" Radius, Add</i>	12.30	
<i>For 48" Radius, Add</i>	15.95	
26 05 33 13-1690 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	127.19	10.46
<i>For 24" Radius, Add</i>	8.89	
<i>For 36" Radius, Add</i>	12.72	
<i>For 48" Radius, Add</i>	16.55	
26 05 33 13-1691 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	135.50	13.38
<i>For 24" Radius, Add</i>	9.33	
<i>For 36" Radius, Add</i>	13.55	
<i>For 48" Radius, Add</i>	17.77	
26 05 33 13-1692 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	144.88	16.73
<i>For 24" Radius, Add</i>	9.82	
<i>For 36" Radius, Add</i>	14.49	
<i>For 48" Radius, Add</i>	19.16	
26 05 33 13-1693 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	169.54	20.91
<i>For 24" Radius, Add</i>	11.41	
<i>For 36" Radius, Add</i>	16.95	
<i>For 48" Radius, Add</i>	22.50	
26 05 33 13-1694 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	203.09	25.10
<i>For 24" Radius, Add</i>	13.66	
<i>For 36" Radius, Add</i>	20.31	
<i>For 48" Radius, Add</i>	26.96	
26 05 33 13-1695 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	241.61	29.29
<i>For 24" Radius, Add</i>	16.29	
<i>For 36" Radius, Add</i>	24.16	
<i>For 48" Radius, Add</i>	32.03	
26 05 33 13-1696 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	278.35	35.56
<i>For 24" Radius, Add</i>	18.65	
<i>For 36" Radius, Add</i>	27.84	
<i>For 48" Radius, Add</i>	37.02	
26 05 33 13-1697 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	315.08	41.84
<i>For 24" Radius, Add</i>	21.02	
<i>For 36" Radius, Add</i>	31.51	
<i>For 48" Radius, Add</i>	42.00	
26 05 33 13-1698 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	393.86	52.29
<i>For 24" Radius, Add</i>	26.27	
<i>For 36" Radius, Add</i>	39.39	
<i>For 48" Radius, Add</i>	52.50	
26 05 33 13-1699 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	485.78	62.75
<i>For 24" Radius, Add</i>	32.51	
<i>For 36" Radius, Add</i>	48.58	
<i>For 48" Radius, Add</i>	64.64	
26 05 33 13-1700 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1660)</small>		
26 05 33 13-1701 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	102.72	7.53
<i>For 24" Radius, Add</i>	7.23	
<i>For 36" Radius, Add</i>	10.27	
<i>For 48" Radius, Add</i>	13.31	
26 05 33 13-1702 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	114.62	8.28
<i>For 24" Radius, Add</i>	8.08	
<i>For 36" Radius, Add</i>	11.46	
<i>For 48" Radius, Add</i>	14.85	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1703	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	118.41 8.29 11.84 15.39	9.41
26 05 33	13-1704	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	125.92 8.69 12.59 16.49	12.05
26 05 33	13-1705	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	134.41 9.14 13.44 17.74	15.06
26 05 33	13-1706	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	157.16 10.61 15.72 20.82	18.83
26 05 33	13-1707	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	188.26 12.71 18.83 24.94	22.59
26 05 33	13-1708	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	224.02 15.15 22.40 29.65	26.36
26 05 33	13-1709	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	257.91 17.34 25.79 34.24	32.00
26 05 33	13-1710	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	291.79 19.53 29.18 38.83	37.65
26 05 33	13-1711	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	364.74 24.41 36.47 48.53	47.06
26 05 33	13-1712	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	450.04 30.22 45.00 59.78	56.48
26 05 33	13-1713		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1660)</small>		
26 05 33	13-1714	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	97.28 6.83 9.73 12.63	7.53
26 05 33	13-1715	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	108.53 7.62 10.85 14.08	8.28
26 05 33	13-1716	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	112.25 7.83 11.23 14.62	9.41
26 05 33	13-1717	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	119.70 8.22 11.97 15.72	12.05
26 05 33	13-1718	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	128.12 8.67 12.81 16.96	15.06
26 05 33	13-1719	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	150.01 10.07 15.00 19.93	18.83
26 05 33	13-1720	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	179.70 12.07 17.97 23.87	22.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1721 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	213.76	26.36
For 24" Radius, Add	14.38	
For 36" Radius, Add	21.38	
For 48" Radius, Add	28.37	
26 05 33 13-1722 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	246.36	32.00
For 24" Radius, Add	16.48	
For 36" Radius, Add	24.64	
For 48" Radius, Add	32.80	
26 05 33 13-1723 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	278.95	37.65
For 24" Radius, Add	18.57	
For 36" Radius, Add	27.90	
For 48" Radius, Add	37.22	
26 05 33 13-1724 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	348.69	47.06
For 24" Radius, Add	23.21	
For 36" Radius, Add	34.87	
For 48" Radius, Add	46.53	
26 05 33 13-1725 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	429.98	56.48
For 24" Radius, Add	28.72	
For 36" Radius, Add	43.00	
For 48" Radius, Add	57.28	
26 05 33 13-1726 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-1660)</small>		
26 05 33 13-1727 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	59.75	5.86
26 05 33 13-1728 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	67.00	6.70
26 05 33 13-1729 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	69.62	7.53
26 05 33 13-1730 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	72.12	8.37
26 05 33 13-1731 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	78.39	10.46
26 05 33 13-1732 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	93.58	12.55
26 05 33 13-1733 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	116.71	16.73
26 05 33 13-1734 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	142.14	20.91
26 05 33 13-1735 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	169.05	27.19
26 05 33 13-1736 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	195.98	33.47
26 05 33 13-1737 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	244.96	41.84
26 05 33 13-1738 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	306.15	52.29
26 05 33 13-1739 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-1660)</small>		
26 05 33 13-1740 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	40.09	5.86
26 05 33 13-1741 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	45.01	6.70
26 05 33 13-1742 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	47.41	7.53
26 05 33 13-1743 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	49.79	8.37
26 05 33 13-1744 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	55.33	10.46
26 05 33 13-1745 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	60.72	12.55
26 05 33 13-1746 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	77.05	16.73
26 05 33 13-1747 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	94.56	20.91
26 05 33 13-1748 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	115.53	27.19
26 05 33 13-1749 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	136.51	33.47
26 05 33 13-1750 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	170.68	41.84
26 05 33 13-1751 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	213.30	52.29
26 05 33 13-1752 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-1660)</small>		
26 05 33 13-1753 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	46.28	4.81
26 05 33 13-1754 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	51.90	6.70
26 05 33 13-1755 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	54.38	7.53
26 05 33 13-1756 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	56.68	8.37
26 05 33 13-1757 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	62.73	10.46
26 05 33 13-1758 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	74.93	12.55
26 05 33 13-1759 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	94.08	16.73
26 05 33 13-1760 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	114.97	20.91
26 05 33 13-1761 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	138.48	27.19
26 05 33 13-1762 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	162.01	33.47
26 05 33 13-1763 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	202.47	41.84
26 05 33 13-1764 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	253.14	52.29
26 05 33 13-1765 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-1660)</small>		
26 05 33 13-1766 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	87.16	20.91
26 05 33 13-1767 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	101.43	25.10
26 05 33 13-1768 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	112.32	29.29
26 05 33 13-1769 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	123.03	33.47

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1770	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	134.38	37.65
26 05 33 13-1771	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	152.50	41.84
26 05 33 13-1772	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	177.78	48.10
26 05 33 13-1773	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	204.97	54.38
26 05 33 13-1774	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	234.50	62.75
26 05 33 13-1775	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	269.28	73.21
26 05 33 13-1776	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	316.99	83.67
26 05 33 13-1777	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	370.09	94.12
26 05 33 13-1778 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-1660)</small>					
26 05 33 13-1779	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	101.32	20.91
26 05 33 13-1780	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	117.30	25.10
26 05 33 13-1781	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	128.28	29.29
26 05 33 13-1782	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	139.16	33.47
26 05 33 13-1783	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	150.64	37.65
26 05 33 13-1784	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	171.07	41.84
26 05 33 13-1785	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	200.06	48.10
26 05 33 13-1786	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	231.71	54.38
26 05 33 13-1787	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	264.60	62.75
26 05 33 13-1788	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	302.73	73.21
26 05 33 13-1789	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	358.92	83.67
26 05 33 13-1790	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	422.50	94.12
26 05 33 13-1791 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-1660)</small>					
26 05 33 13-1792	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	131.22	5.86
26 05 33 13-1793	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	146.24	6.70
26 05 33 13-1794	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	152.32	7.53
26 05 33 13-1795	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	158.55	8.37
26 05 33 13-1796	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	165.93	10.46
26 05 33 13-1797	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	184.45	12.55
26 05 33 13-1798	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	225.56	16.73
26 05 33 13-1799	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	272.63	20.91
26 05 33 13-1800	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	315.87	27.19
26 05 33 13-1801	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	359.12	33.47
26 05 33 13-1802	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	449.00	41.84
26 05 33 13-1803	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	558.58	52.29
26 05 33 13-1804 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-1660)</small>					
26 05 33 13-1805	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	125.94	20.91
26 05 33 13-1806	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	144.60	25.10
26 05 33 13-1807	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	174.32	29.29
26 05 33 13-1808	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	219.99	33.47
26 05 33 13-1809	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	281.00	37.65
26 05 33 13-1810	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	381.54	41.84
26 05 33 13-1811	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	556.09	48.10
26 05 33 13-1812	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	676.37	54.38
26 05 33 13-1813	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	821.49	62.75
26 05 33 13-1814	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	971.85	73.21
26 05 33 13-1815	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,146.17	83.67
26 05 33 13-1816	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,826.04	94.12
26 05 33 13-1817 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <small>(26 05 33 13-1660)</small>					
26 05 33 13-1818	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	107.04	16.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.55	
26 05 33 13-1819	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	124.81	18.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.12	
26 05 33 13-1820	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	170.83	20.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	
26 05 33 13-1821	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	209.18	25.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.83	
26 05 33 13-1822	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	266.71	31.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.53	
26 05 33 13-1823	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	373.04	37.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.24	
26 05 33 13-1824	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	632.79	43.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1825 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	822.81	50.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.65	
26 05 33 13-1826 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	991.90	58.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.93	
26 05 33 13-1827 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,160.99	66.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.20	
26 05 33 13-1828 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,373.67	75.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.48	
26 05 33 13-1829 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,560.20	83.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.75	
26 05 33 13-1830 Explosion Proof Conduit Fittings <small>(26 05 33 13-0059)</small>		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1831 Explosion Proof Malleable Iron Conduit Unions <small>(26 05 33 13-1830)</small>		
26 05 33 13-1832 EA 1/2" Explosion Proof Malleable Iron Conduit Union	41.43	9.33
26 05 33 13-1833 EA 3/4" Explosion Proof Malleable Iron Conduit Union	50.71	10.31
26 05 33 13-1834 EA 1" Explosion Proof Malleable Iron Conduit Union	79.62	13.75
26 05 33 13-1835 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	104.46	15.22
26 05 33 13-1836 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	131.29	18.66
26 05 33 13-1837 EA 2" Explosion Proof Malleable Iron Conduit Union	163.04	21.60
26 05 33 13-1838 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	247.42	30.85
26 05 33 13-1839 EA 3" Explosion Proof Malleable Iron Conduit Union	313.68	36.73
26 05 33 13-1840 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	521.21	44.08
26 05 33 13-1841 EA 4" Explosion Proof Malleable Iron Conduit Union	555.83	56.32
26 05 33 13-1842 Explosion Proof Malleable Iron Conduit Bodies <small>(26 05 33 13-1830)</small>		
26 05 33 13-1843 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	145.61	29.46
26 05 33 13-1844 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	164.18	33.39
26 05 33 13-1845 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	191.56	36.82
26 05 33 13-1846 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	165.38	36.82
26 05 33 13-1847 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	197.14	44.19
26 05 33 13-1848 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	232.76	50.57
26 05 33 13-1849 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <small>(26 05 33 13-1830)</small>		
Note: Includes sealing gasket and lock nut.		
26 05 33 13-1850 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	120.48	24.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.41	
26 05 33 13-1851 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	123.85	27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.62	
26 05 33 13-1852 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	135.17	29.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.46	
26 05 33 13-1853 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	173.22	36.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.62	
26 05 33 13-1854 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	220.00	43.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.40	
26 05 33 13-1855 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	280.83	49.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.82	
26 05 33 13-1856 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	400.76	73.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.10	
26 05 33 13-1857 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	506.32	92.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.06	
26 05 33 13-1858 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	706.61	101.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.04	
26 05 33 13-1859 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	905.66	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.65	
26 05 33 13-1860 Explosion Proof Flexible Conduit Couplings <small>(26 05 33 13-1830)</small>		
26 05 33 13-1861 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	306.79	11.29
26 05 33 13-1862 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling.....	400.80	12.76
26 05 33 13-1863 Flexible Conduit <small>(26 05 33 13-0058)</small>		
26 05 33 13-1864 Flexible Liquid Tight Metallic Conduit And Connectors <small>(26 05 33 13-1863)</small>		
Note: Steel inner core with PVC cover.		
26 05 33 13-1865 Flexible Liquid Tight Metallic Conduit <small>(26 05 33 13-1864)</small>		
26 05 33 13-1866 LF 3/8" Flexible Liquid Tight Metallic Conduit	4.74	1.35
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.50	
For Work In Restricted Working Space, Add	1.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1867	LF	1/2" Flexible Liquid Tight Metallic Conduit.....	4.94	1.35
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	1.01	
26 05 33	13-1868	LF	3/4" Flexible Liquid Tight Metallic Conduit.....	6.64	1.79
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33	13-1869	LF	1" Flexible Liquid Tight Metallic Conduit.....	7.74	1.79
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33	13-1870	LF	1-1/4" Flexible Liquid Tight Metallic Conduit.....	10.04	2.24
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	1.68	
26 05 33	13-1871	LF	1-1/2" Flexible Liquid Tight Metallic Conduit.....	12.96	2.69
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.01	
			<i>For Work In Restricted Working Space, Add</i>	2.02	
26 05 33	13-1872	LF	2" Flexible Liquid Tight Metallic Conduit.....	17.03	3.58
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.34	
			<i>For Work In Restricted Working Space, Add</i>	2.69	
26 05 33	13-1873	LF	2-1/2" Flexible Liquid Tight Metallic Conduit.....	23.42	4.03
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.51	
			<i>For Work In Restricted Working Space, Add</i>	3.02	
26 05 33	13-1874	LF	3" Flexible Liquid Tight Metallic Conduit.....	34.76	4.92
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 33	13-1875	LF	4" Flexible Liquid Tight Metallic Conduit.....	47.70	6.26
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.35	
			<i>For Work In Restricted Working Space, Add</i>	4.70	
26 05 33	13-1876		Straight Liquid Tight Connector <small>(26 05 33 13-1864)</small>		
26 05 33	13-1877	EA	3/8" Straight Liquid Tight Connector.....	12.91	3.58
			<i>For Work In Restricted Working Space, Add</i>	2.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.69	
26 05 33	13-1878	EA	1/2" Straight Liquid Tight Connector.....	12.91	3.58
			<i>For Work In Restricted Working Space, Add</i>	2.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.69	
26 05 33	13-1879	EA	3/4" Straight Liquid Tight Connector.....	15.74	4.03
			<i>For Work In Restricted Working Space, Add</i>	3.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.02	
26 05 33	13-1880	EA	1" Straight Liquid Tight Connector.....	21.31	4.48
			<i>For Work In Restricted Working Space, Add</i>	3.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.36	
26 05 33	13-1881	EA	1-1/4" Straight Liquid Tight Connector.....	27.61	4.92
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33	13-1882	EA	1-1/2" Straight Liquid Tight Connector.....	35.26	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33	13-1883	EA	2" Straight Liquid Tight Connector.....	48.92	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33	13-1884	EA	2-1/2" Straight Liquid Tight Connector.....	171.14	8.06
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	
26 05 33	13-1885	EA	3" Straight Liquid Tight Connector.....	221.23	8.50
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-1886	EA	4" Straight Liquid Tight Connector.....	270.15	12.53
			<i>For Work In Restricted Working Space, Add</i>	9.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-1887		90 Degree Angle Liquid Tight Connector <small>(26 05 33 13-1864)</small>		
26 05 33	13-1888	EA	3/8" 90 Degree Angle Liquid Tight Connector.....	18.92	4.92
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33	13-1889	EA	1/2" 90 Degree Angle Liquid Tight Connector.....	19.78	4.92
			<i>For Work In Restricted Working Space, Add</i>	3.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33	13-1890	EA	3/4" 90 Degree Angle Liquid Tight Connector.....	22.41	5.37
			<i>For Work In Restricted Working Space, Add</i>	4.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33	13-1891	EA	1" 90 Degree Angle Liquid Tight Connector.....	31.98	6.26
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33	13-1892	EA	1-1/4" 90 Degree Angle Liquid Tight Connector.....	40.65	6.72
			<i>For Work In Restricted Working Space, Add</i>	5.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-1893	EA	1-1/2" 90 Degree Angle Liquid Tight Connector.....	49.61	7.16
			<i>For Work In Restricted Working Space, Add</i>	5.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.37	
26 05 33	13-1894	EA	2" 90 Degree Angle Liquid Tight Connector.....	66.05	8.06
			<i>For Work In Restricted Working Space, Add</i>	6.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1895 EA 2-1/2" 90 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	239.92 6.38 6.38	8.50
26 05 33 13-1896 EA 3" 90 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	283.55 7.38 7.38	9.85
26 05 33 13-1897 EA 4" 90 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	391.64 11.75 11.75	15.66
26 05 33 13-1898 45 Degree Angle Connector (26 05 33 13-1864)		
26 05 33 13-1899 EA 3/8" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.64 3.69 3.69	4.92
26 05 33 13-1900 EA 1/2" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.84 3.69 3.69	4.92
26 05 33 13-1901 EA 3/4" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.41 4.03 4.03	5.37
26 05 33 13-1902 EA 1" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.31 4.70 4.70	6.26
26 05 33 13-1903 EA 1-1/4" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.14 5.03 5.03	6.72
26 05 33 13-1904 EA 1-1/2" 45 Degree Angle Liquid Tight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.98 5.37 5.37	7.16
26 05 33 13-1905 Flexible Metallic Conduit And Connectors (26 05 33 13-1863)		
26 05 33 13-1906 Flexible Steel Conduit (26 05 33 13-1905)		
26 05 33 13-1907 LF 3/8" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	4.28 0.11 0.54 0.36 0.90 1.08	1.46
26 05 33 13-1908 LF 1/2" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	4.43 0.13 0.55 0.37 0.92 1.10	1.46
26 05 33 13-1909 LF 3/4" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	5.01 0.17 0.60 0.40 1.00 1.19	1.96
26 05 33 13-1910 LF 1" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	6.20 0.32 0.64 0.43 1.07 1.28	1.96
26 05 33 13-1911 LF 1-1/4" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	7.04 0.41 0.68 0.45 1.13 1.36	2.45
26 05 33 13-1912 LF 1-1/2" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	9.12 0.73 0.71 0.47 1.18 1.42	2.94
26 05 33 13-1913 LF 2" Flexible Metallic Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.30 0.89 0.74 0.49 1.23 1.47	3.92
26 05 33 13-1914 LF 2-1/2" Flexible Steel Conduit <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	12.65 1.08 0.92 0.61 1.53 1.84	4.40

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1915	LF	3" Flexible Metallic Conduit.....	18.68	5.39
			<i>For Flexible Aluminum Conduit, Add</i>	1.87	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.10	
			<i>For Installation In Metal Stud Wall, Add</i>	0.73	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.84	
			<i>For Work In Restricted Working Space, Add</i>	2.20	
26 05 33	13-1916	LF	3-1/2" Flexible Metallic Conduit.....	22.87	5.88
			<i>For Flexible Aluminum Conduit, Add</i>	2.36	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.29	
			<i>For Installation In Metal Stud Wall, Add</i>	0.86	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	2.57	
26 05 33	13-1917	LF	4" Flexible Metallic Conduit.....	26.29	6.85
			<i>For Flexible Aluminum Conduit, Add</i>	2.72	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.47	
			<i>For Installation In Metal Stud Wall, Add</i>	0.98	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	2.94	
26 05 33 13-1918 Plain Squeeze Type Straight Connector <small>(26 05 33 13-1905)</small>					
26 05 33	13-1919	EA	3/8" Flexible Straight Connectors, Plain.....	7.25	3.92
			<i>For Work In Restricted Working Space, Add</i>	1.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.65	
26 05 33	13-1920	EA	1/2" Flexible Straight Connectors, Plain.....	8.88	4.40
			<i>For Work In Restricted Working Space, Add</i>	1.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.84	
26 05 33	13-1921	EA	3/4" Flexible Straight Connectors, Plain.....	10.25	5.39
			<i>For Work In Restricted Working Space, Add</i>	2.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33	13-1922	EA	1" Flexible Straight Connectors, Plain.....	16.18	5.88
			<i>For Work In Restricted Working Space, Add</i>	2.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33	13-1923	EA	1-1/4" Flexible Straight Connectors, Plain.....	22.70	6.85
			<i>For Work In Restricted Working Space, Add</i>	3.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33	13-1924	EA	1-1/2" Flexible Straight Connectors, Plain.....	29.83	8.33
			<i>For Work In Restricted Working Space, Add</i>	4.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.59	
26 05 33	13-1925	EA	2" Flexible Straight Connectors, Plain.....	39.02	8.33
			<i>For Work In Restricted Working Space, Add</i>	5.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33	13-1926	EA	2-1/2" Flexible Straight Connectors, Plain.....	62.01	10.28
			<i>For Work In Restricted Working Space, Add</i>	6.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.43	
26 05 33	13-1927	EA	3" Flexible Straight Connectors, Plain.....	80.74	11.27
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 33	13-1928	EA	3-1/2" Flexible Straight Connectors, Plain.....	245.09	13.22
			<i>For Work In Restricted Working Space, Add</i>	8.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.27	
26 05 33	13-1929	EA	4" Flexible Straight Connectors, Plain.....	305.82	16.16
			<i>For Work In Restricted Working Space, Add</i>	9.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.18	
26 05 33 13-1930 Insulated Throat Squeeze Type Straight Connector <small>(26 05 33 13-1905)</small>					
26 05 33	13-1931	EA	1/2" Flexible Straight Connectors, Insulated.....	9.83	4.40
			<i>For Work In Restricted Working Space, Add</i>	1.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.84	
26 05 33	13-1932	EA	3/4" Flexible Straight Connectors, Insulated.....	11.50	5.39
			<i>For Work In Restricted Working Space, Add</i>	2.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33	13-1933	EA	1" Flexible Straight Connectors, Insulated.....	17.88	5.88
			<i>For Work In Restricted Working Space, Add</i>	2.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33	13-1934	EA	1-1/4" Flexible Straight Connectors, Insulated.....	25.82	6.85
			<i>For Work In Restricted Working Space, Add</i>	3.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33	13-1935	EA	1-1/2" Flexible Straight Connectors, Insulated.....	35.38	7.34
			<i>For Work In Restricted Working Space, Add</i>	4.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.59	
26 05 33	13-1936	EA	2" Flexible Straight Connectors, Insulated.....	48.83	8.33
			<i>For Work In Restricted Working Space, Add</i>	5.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33	13-1937	EA	2-1/2" Flexible Straight Connectors, Insulated.....	82.98	10.28
			<i>For Work In Restricted Working Space, Add</i>	6.43	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.43	
26 05 33	13-1938	EA	3" Flexible Straight Connectors, Insulated.....	105.47	11.27
			<i>For Work In Restricted Working Space, Add</i>	7.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.35	
26 05 33	13-1939	EA	3-1/2" Flexible Straight Connectors, Insulated.....	283.21	13.22
			<i>For Work In Restricted Working Space, Add</i>	8.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1940 EA 4" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	363.14 9.18 9.18	16.16
26 05 33 13-1941 Plain Squeeze Type 90 Degree Connector <small>(26 05 33 13-1905)</small>		
26 05 33 13-1942 EA 3/8" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13 2.20 2.20	4.90
26 05 33 13-1943 EA 1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.24 2.57 2.57	5.39
26 05 33 13-1944 EA 3/4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.10 2.94 2.94	5.88
26 05 33 13-1945 EA 1" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.77 3.67 3.67	6.85
26 05 33 13-1946 EA 1-1/4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.59 4.41 4.41	7.34
26 05 33 13-1947 EA 1-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.63 5.51 5.51	8.57
26 05 33 13-1948 EA 2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.13 6.25 6.25	10.53
26 05 33 13-1949 EA 2-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.81 7.35 7.35	11.27
26 05 33 13-1950 EA 3" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.44 8.27 8.27	13.22
26 05 33 13-1951 EA 3-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	398.77 9.18 9.18	16.16
26 05 33 13-1952 EA 4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	710.43 11.02 11.02	18.37
26 05 33 13-1953 Insulated Throat Squeeze Type 90 Degree Connector <small>(26 05 33 13-1905)</small>		
26 05 33 13-1954 EA 1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.56 2.57 2.57	5.39
26 05 33 13-1955 EA 3/4" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.72 2.94 2.94	5.88
26 05 33 13-1956 EA 1" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.77 3.67 3.67	6.85
26 05 33 13-1957 EA 1-1/4" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.38 4.41 4.41	7.34
26 05 33 13-1958 EA 1-1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.14 5.51 5.51	8.57
26 05 33 13-1959 EA 2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.21 6.25 6.25	10.53
26 05 33 13-1960 EA 2-1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	201.22 7.35 7.35	11.27
26 05 33 13-1961 EA 3" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	247.31 8.27 8.27	13.22
26 05 33 13-1962 EA 3-1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	661.04 9.18 9.18	16.16
26 05 33 13-1963 EA 4" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	985.11 11.02 11.02	18.37
26 05 33 13-1964 Plain Squeeze Type 45 Degree Connector <small>(26 05 33 13-1905)</small>		
26 05 33 13-1965 EA 3/8" Flexible 45 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.19 2.20 2.20	4.90
26 05 33 13-1966 EA 1/2" Flexible 45 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.94 2.57 2.57	5.39
26 05 33 13-1967 EA 3/4" Flexible 45 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.00 2.94 2.94	5.88

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1968		Insulated Squeeze Type 45 Degree Connector (26 05 33 13-1905)		
26 05 33 13-1969	EA	3/8" Flexible 45 Degree Connector, Insulated.....	11.93	5.88
		<i>For Work In Restricted Working Space, Add</i>	2.20	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33 13-1970	EA	1/2" Flexible 45 Degree Connector, Insulated.....	16.15	5.39
		<i>For Work In Restricted Working Space, Add</i>	2.57	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.57	
26 05 33 13-1971	EA	3/4" Flexible 45 Degree Connector, Insulated.....	20.71	5.88
		<i>For Work In Restricted Working Space, Add</i>	2.94	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33 13-1972		Plain Screw-In Connector (26 05 33 13-1905)		
26 05 33 13-1973	EA	3/8" Flexible Steel Screw-in Connector, Plain.....	6.15	3.92
		<i>For Work In Restricted Working Space, Add</i>	1.65	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.65	
26 05 33 13-1974	EA	1/2" Flexible Steel Screw-in Connector, Plain.....	6.66	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.84	
26 05 33 13-1975	EA	3/4" Flexible Steel Screw-in Connector, Plain.....	8.42	5.39
		<i>For Work In Restricted Working Space, Add</i>	2.20	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33 13-1976	EA	1" Flexible Steel Screw-in Connector, Plain.....	11.97	5.88
		<i>For Work In Restricted Working Space, Add</i>	2.94	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33 13-1977	EA	1-1/4" Flexible Steel Screw-in Connector, Plain.....	17.34	6.85
		<i>For Work In Restricted Working Space, Add</i>	3.67	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33 13-1978	EA	1-1/2" Flexible Steel Screw-in Connector, Plain.....	21.25	7.34
		<i>For Work In Restricted Working Space, Add</i>	4.59	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.59	
26 05 33 13-1979	EA	2" Flexible Steel Screw-in Connector, Plain.....	30.70	8.33
		<i>For Work In Restricted Working Space, Add</i>	5.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33 13-1980		Insulated Screw-In Connector (26 05 33 13-1905)		
26 05 33 13-1981	EA	3/8" Flexible Steel Screw-in Connector, Insulated.....	6.47	3.92
		<i>For Work In Restricted Working Space, Add</i>	1.65	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.65	
26 05 33 13-1982	EA	1/2" Flexible Steel Screw-in Connector, Insulated.....	6.91	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.84	
26 05 33 13-1983	EA	3/4" Flexible Steel Screw-in Connector, Insulated.....	9.07	5.39
		<i>For Work In Restricted Working Space, Add</i>	2.20	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33 13-1984	EA	1" Flexible Steel Screw-in Connector, Insulated.....	12.96	5.88
		<i>For Work In Restricted Working Space, Add</i>	2.94	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33 13-1985	EA	1-1/4" Flexible Steel Screw-in Connector, Insulated.....	18.75	6.85
		<i>For Work In Restricted Working Space, Add</i>	3.67	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33 13-1986	EA	1-1/2" Flexible Steel Screw-in Connector, Insulated.....	22.93	7.34
		<i>For Work In Restricted Working Space, Add</i>	4.59	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.59	
26 05 33 13-1987	EA	2" Flexible Steel Screw-in Connector, Insulated.....	32.19	8.33
		<i>For Work In Restricted Working Space, Add</i>	5.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33 13-1988		Screw-In Coupling (26 05 33 13-1905)		
26 05 33 13-1989	EA	1/2" Flexible Steel Screw-in Coupling.....	7.27	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 33 13-1990	EA	3/4" Flexible Steel Screw-in Coupling.....	9.44	5.39
		<i>For Work In Restricted Working Space, Add</i>	2.20	
26 05 33 13-1991		Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-1905)		
26 05 33 13-1992	EA	3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	9.43	3.92
		<i>For Work In Restricted Working Space, Add</i>	1.65	
26 05 33 13-1993	EA	1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	12.66	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 33 13-1994	EA	3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	16.64	5.39
		<i>For Work In Restricted Working Space, Add</i>	2.20	
26 05 33 13-1995		Die Cast Squeeze Type Straight Connector (26 05 33 13-1905)		
26 05 33 13-1996	EA	3/8" Flexible Straight Connector, Die Cast.....	6.35	3.92
		<i>For Work In Restricted Working Space, Add</i>	1.65	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1997 EA 1/2" Flexible Straight Connector, Die Cast.....	7.17	4.40
<i>For Work In Restricted Working Space, Add</i>	1.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.84	
26 05 33 13-1998 EA 3/4" Flexible Straight Connector, Die Cast.....	8.86	5.39
<i>For Work In Restricted Working Space, Add</i>	2.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33 13-1999 EA 1" Flexible Straight Connector, Die Cast.....	13.18	5.88
<i>For Work In Restricted Working Space, Add</i>	2.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33 13-2000 EA 1-1/4" Flexible Straight Connector, Die Cast.....	17.64	6.85
<i>For Work In Restricted Working Space, Add</i>	3.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33 13-2001 EA 1-1/2" Flexible Straight Connector, Die Cast.....	23.79	7.34
<i>For Work In Restricted Working Space, Add</i>	4.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.59	
26 05 33 13-2002 EA 2" Flexible Straight Connector, Die Cast.....	30.57	8.33
<i>For Work In Restricted Working Space, Add</i>	5.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33 13-2003 Die Cast Squeeze Type 90 Degree Connector <small>(26 05 33 13-1905)</small>		
26 05 33 13-2004 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	8.41	4.90
<i>For Work In Restricted Working Space, Add</i>	2.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.20	
26 05 33 13-2005 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	10.37	5.39
<i>For Work In Restricted Working Space, Add</i>	2.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.57	
26 05 33 13-2006 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	12.50	5.88
<i>For Work In Restricted Working Space, Add</i>	2.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.94	
26 05 33 13-2007 EA 1" Flexible 90 Degree Connector, Die Cast.....	19.40	6.85
<i>For Work In Restricted Working Space, Add</i>	3.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.67	
26 05 33 13-2008 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	27.20	7.34
<i>For Work In Restricted Working Space, Add</i>	4.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.41	
26 05 33 13-2009 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	41.69	8.57
<i>For Work In Restricted Working Space, Add</i>	5.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.51	
26 05 33 13-2010 EA 2" Flexible 90 Degree Connector, Die Cast.....	49.70	10.53
<i>For Work In Restricted Working Space, Add</i>	6.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.25	
26 05 33 13-2011 Flexible Liquid Tight Non-Metallic Conduit And Connectors <small>(26 05 33 13-1863)</small>		
26 05 33 13-2012 Flexible Liquid Tight Non-Metallic Conduit <small>(26 05 33 13-2011)</small>		
26 05 33 13-2013 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	4.27	1.35
<i>For Work In Restricted Working Space, Add</i>	1.01	
26 05 33 13-2014 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	4.35	1.35
<i>For Work In Restricted Working Space, Add</i>	1.01	
26 05 33 13-2015 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	5.86	1.79
<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33 13-2016 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	7.27	1.79
<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33 13-2017 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	9.23	2.24
<i>For Work In Restricted Working Space, Add</i>	1.68	
26 05 33 13-2018 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	11.78	2.69
<i>For Work In Restricted Working Space, Add</i>	2.02	
26 05 33 13-2019 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	15.12	3.58
<i>For Work In Restricted Working Space, Add</i>	2.69	
26 05 33 13-2020 Liquid Tight Non-Metallic Straight Connector <small>(26 05 33 13-2011)</small>		
26 05 33 13-2021 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	12.35	3.58
<i>For Work In Restricted Working Space, Add</i>	2.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.69	
26 05 33 13-2022 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	12.35	3.58
<i>For Work In Restricted Working Space, Add</i>	2.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.69	
26 05 33 13-2023 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	15.10	4.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.02	
26 05 33 13-2024 EA 1" Liquid Tight Non-Metallic Straight Connector.....	18.75	4.48
<i>For Work In Restricted Working Space, Add</i>	3.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.36	
26 05 33 13-2025 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	25.88	4.92
<i>For Work In Restricted Working Space, Add</i>	3.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33 13-2026 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	32.33	5.37
<i>For Work In Restricted Working Space, Add</i>	4.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2027	EA	2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.32 4.70 4.70	6.26
26 05 33	13-2028		Liquid Tight Non-Metallic 90 Degree Angle Connector <small>(26 05 33 13-2011)</small>		
26 05 33	13-2029	EA	3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84 3.69 3.69	4.92
26 05 33	13-2030	EA	1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84 3.69 3.69	4.92
26 05 33	13-2031	EA	3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.94 4.03 4.03	5.37
26 05 33	13-2032	EA	1" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.03 4.70 4.70	6.26
26 05 33	13-2033	EA	1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.07 5.03 5.03	6.72
26 05 33	13-2034	EA	1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.69 5.37 5.37	7.16
26 05 33	13-2035	EA	2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.11 6.04 6.04	8.06
26 05 33	13-2036		Liquid Tight Non-Metallic 45 Degree Angle Connector <small>(26 05 33 13-2011)</small>		
26 05 33	13-2037	EA	3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84 3.69 3.69	4.92
26 05 33	13-2038	EA	1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.84 3.69 3.69	4.92
26 05 33	13-2039	EA	3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.94 4.03 4.03	5.37
26 05 33	13-2040	EA	1" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.03 4.70 4.70	6.26
26 05 33	13-2041	EA	1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.07 5.03 5.03	6.72
26 05 33	13-2042	EA	1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.69 5.37 5.37	7.16
26 05 33	13-2043	EA	2" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.11 6.04 6.04	8.06
26 05 33	13-2044		Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-1863)</small> Note: Carlon - FLEX-PLUS.		
26 05 33	13-2045		Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-2044)</small>		
26 05 33	13-2046	LF	1/2" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	5.31 1.10	1.46
26 05 33	13-2047	LF	3/4" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	7.19 1.47	1.96
26 05 33	13-2048	LF	1" Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	8.60 1.47	1.96
26 05 33	13-2049		Terminal Adapter <small>(26 05 33 13-2044)</small>		
26 05 33	13-2050	EA	1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.49 2.94 2.94	3.92
26 05 33	13-2051	EA	3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.95 3.31 3.31	4.40
26 05 33	13-2052	EA	1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.58 3.67 3.67	4.90
26 05 33	13-2053		Coupling <small>(26 05 33 13-2044)</small>		
26 05 33	13-2054	EA	1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	12.14 2.94	3.92
26 05 33	13-2055	EA	3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	14.07 3.31	4.40
26 05 33	13-2056	EA	1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing <i>For Work In Restricted Working Space, Add</i>	16.82 3.67	4.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2057	Conduit Installed Below Grade <small>(26 05 33 13-0058)</small>	
Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-2058	Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial <small>(26 05 33 13-2057)</small>	
26 05 33 13-2059	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <small>(26 05 33 13-2058)</small>	
Note: Includes field bend conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2060	LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.43
	For Schedule 60, Add	0.43
	For Schedule 80, Add	0.70
26 05 33 13-2061	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.04
	For Schedule 60, Add	0.53
	For Schedule 80, Add	0.85
26 05 33 13-2062	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.99
	For Schedule 60, Add	0.71
	For Schedule 80, Add	1.12
26 05 33 13-2063	LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.94
	For Schedule 60, Add	0.90
	For Schedule 80, Add	1.38
26 05 33 13-2064	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.75
	For Schedule 60, Add	1.05
	For Schedule 80, Add	1.60
26 05 33 13-2065	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.06
	For Schedule 60, Add	1.33
	For Schedule 80, Add	2.00
26 05 33 13-2066	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	11.92
	For Schedule 60, Add	1.99
	For Schedule 80, Add	2.93
26 05 33 13-2067	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.52
	For Schedule 60, Add	2.33
	For Schedule 80, Add	3.42
26 05 33 13-2068	LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.09
	For Schedule 60, Add	2.92
	For Schedule 80, Add	4.26
26 05 33 13-2069	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	17.39
	For Schedule 60, Add	3.20
	For Schedule 80, Add	4.65
26 05 33 13-2070	LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	22.99
	For Schedule 60, Add	4.54
	For Schedule 80, Add	6.54
26 05 33 13-2071	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	28.69
	For Schedule 60, Add	5.92
	For Schedule 80, Add	8.47
26 05 33 13-2072	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial <small>(26 05 33 13-2058)</small>	
See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-2073	EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	27.59
	For Schedule 60, Add	1.67
	For Schedule 80, Add	3.12
26 05 33 13-2074	EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	33.09
	For Schedule 60, Add	2.00
	For Schedule 80, Add	3.74
26 05 33 13-2075	EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	39.30
	For Schedule 60, Add	2.51
	For Schedule 80, Add	4.61
26 05 33 13-2076	EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	45.73
	For Schedule 60, Add	3.06
	For Schedule 80, Add	5.55
26 05 33 13-2077	EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	52.34
	For Schedule 60, Add	3.67
	For Schedule 80, Add	6.55
26 05 33 13-2078	EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	59.59
	For Schedule 60, Add	4.44
	For Schedule 80, Add	7.78
26 05 33 13-2079	EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	70.42
	For Schedule 60, Add	6.10
	For Schedule 80, Add	10.27
26 05 33 13-2080	EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	83.82
	For Schedule 60, Add	8.41
	For Schedule 80, Add	13.65
26 05 33 13-2081	EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	102.50
	For Schedule 60, Add	10.98
	For Schedule 80, Add	17.57
26 05 33 13-2082	EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	121.35
	For Schedule 60, Add	13.60
	For Schedule 80, Add	21.56
26 05 33 13-2083	EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	160.56
	For Schedule 60, Add	21.32
	For Schedule 80, Add	32.67

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2084	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	189.28	
			<i>For Schedule 60, Add</i>	26.40	
			<i>For Schedule 80, Add</i>	40.10	
26 05 33	13-2085		Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial		
			<small>(26 05 33 13-2058)</small>		
			See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33	13-2086	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	27.59	
			<i>For Schedule 60, Add</i>	1.67	
			<i>For Schedule 80, Add</i>	3.12	
26 05 33	13-2087	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	32.99	
			<i>For Schedule 60, Add</i>	1.97	
			<i>For Schedule 80, Add</i>	3.70	
26 05 33	13-2088	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	39.15	
			<i>For Schedule 60, Add</i>	2.47	
			<i>For Schedule 80, Add</i>	4.55	
26 05 33	13-2089	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	45.31	
			<i>For Schedule 60, Add</i>	2.96	
			<i>For Schedule 80, Add</i>	5.40	
26 05 33	13-2090	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	51.40	
			<i>For Schedule 60, Add</i>	3.44	
			<i>For Schedule 80, Add</i>	6.23	
26 05 33	13-2091	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	59.09	
			<i>For Schedule 60, Add</i>	4.31	
			<i>For Schedule 80, Add</i>	7.61	
26 05 33	13-2092	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	69.48	
			<i>For Schedule 60, Add</i>	5.87	
			<i>For Schedule 80, Add</i>	9.94	
26 05 33	13-2093	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	82.63	
			<i>For Schedule 60, Add</i>	8.11	
			<i>For Schedule 80, Add</i>	13.23	
26 05 33	13-2094	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	99.17	
			<i>For Schedule 60, Add</i>	10.15	
			<i>For Schedule 80, Add</i>	16.41	
26 05 33	13-2095	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	118.49	
			<i>For Schedule 60, Add</i>	12.89	
			<i>For Schedule 80, Add</i>	20.55	
26 05 33	13-2096	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	156.86	
			<i>For Schedule 60, Add</i>	20.39	
			<i>For Schedule 80, Add</i>	31.37	
26 05 33	13-2097	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	178.25	
			<i>For Schedule 60, Add</i>	23.65	
			<i>For Schedule 80, Add</i>	36.24	
26 05 33	13-2098		Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial		
			<small>(26 05 33 13-2058)</small>		
26 05 33	13-2099	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	15.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.39	
26 05 33	13-2100	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	17.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33	13-2101	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	20.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.65	
26 05 33	13-2102	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	22.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.27	
26 05 33	13-2103	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	24.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.90	
26 05 33	13-2104	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	27.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.53	
26 05 33	13-2105	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	33.10	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.47	
26 05 33	13-2106	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	38.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-2107	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	45.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.98	
26 05 33	13-2108	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	50.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.55	
26 05 33	13-2109	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	64.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.12	
26 05 33	13-2110	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	73.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.69	
26 05 33	13-2111		Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial		
			<small>(26 05 33 13-2058)</small>		
26 05 33	13-2112	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	17.94	
26 05 33	13-2113	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	20.41	
26 05 33	13-2114	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	22.92	
26 05 33	13-2115	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	29.41	
26 05 33	13-2116	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	32.56	
26 05 33	13-2117	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	36.61	
26 05 33	13-2118	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	40.96	
26 05 33	13-2119	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	46.35	
26 05 33	13-2120	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	54.93	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 33	13-2121	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	60.57	
	26 05 33	13-2122	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	76.78	
	26 05 33	13-2123	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	86.40	
26 05 33	13-2124	Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-2058)</small>				
	26 05 33	13-2125	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	15.19	
	26 05 33	13-2126	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	17.63	
	26 05 33	13-2127	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	19.92	
	26 05 33	13-2128	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	22.35	
	26 05 33	13-2129	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	24.64	
	26 05 33	13-2130	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	27.43	
	26 05 33	13-2131	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	32.47	
	26 05 33	13-2132	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	37.12	
	26 05 33	13-2133	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	43.89	
	26 05 33	13-2134	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	49.48	
	26 05 33	13-2135	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	62.55	
	26 05 33	13-2136	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	71.00	
26 05 33	13-2137	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-2057)</small>				
		Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).				
26 05 33	13-2138	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-2137)</small>				
		Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".				
	26 05 33	13-2139	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	11.83	2.35
				<i>For >250 To 500, Deduct</i>	-0.44	
				<i>For >500 To 1,000, Deduct</i>	-0.73	
				<i>For >1,000, Deduct</i>	-1.03	
	26 05 33	13-2140	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	13.29	2.91
				<i>For >250 To 500, Deduct</i>	-0.50	
				<i>For >500 To 1,000, Deduct</i>	-0.83	
				<i>For >1,000, Deduct</i>	-1.16	
	26 05 33	13-2141	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	16.35	3.24
				<i>For >250 To 500, Deduct</i>	-0.62	
				<i>For >500 To 1,000, Deduct</i>	-1.03	
				<i>For >1,000, Deduct</i>	-1.44	
	26 05 33	13-2142	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	19.75	4.37
				<i>For >250 To 500, Deduct</i>	-0.76	
				<i>For >500 To 1,000, Deduct</i>	-1.26	
				<i>For >1,000, Deduct</i>	-1.75	
	26 05 33	13-2143	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	23.19	4.92
				<i>For >250 To 500, Deduct</i>	-0.91	
				<i>For >500 To 1,000, Deduct</i>	-1.49	
				<i>For >1,000, Deduct</i>	-2.07	
	26 05 33	13-2144	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	29.41	5.37
				<i>For >250 To 500, Deduct</i>	-1.16	
				<i>For >500 To 1,000, Deduct</i>	-1.90	
				<i>For >1,000, Deduct</i>	-2.63	
	26 05 33	13-2145	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	42.71	8.06
				<i>For >250 To 500, Deduct</i>	-1.72	
				<i>For >500 To 1,000, Deduct</i>	-2.78	
				<i>For >1,000, Deduct</i>	-3.85	
	26 05 33	13-2146	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	55.07	10.07
				<i>For >250 To 500, Deduct</i>	-2.19	
				<i>For >500 To 1,000, Deduct</i>	-3.57	
				<i>For >1,000, Deduct</i>	-4.95	
	26 05 33	13-2147	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	67.98	10.63
				<i>For >250 To 500, Deduct</i>	-2.70	
				<i>For >500 To 1,000, Deduct</i>	-4.40	
				<i>For >1,000, Deduct</i>	-6.10	
	26 05 33	13-2148	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	80.73	11.74
				<i>For >250 To 500, Deduct</i>	-3.20	
				<i>For >500 To 1,000, Deduct</i>	-5.22	
				<i>For >1,000, Deduct</i>	-7.23	
	26 05 33	13-2149	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	126.09	16.22
				<i>For >250 To 500, Deduct</i>	-5.24	
				<i>For >500 To 1,000, Deduct</i>	-8.39	
				<i>For >1,000, Deduct</i>	-11.55	
	26 05 33	13-2150	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	168.23	21.26
				<i>For >250 To 500, Deduct</i>	-7.07	
				<i>For >500 To 1,000, Deduct</i>	-11.27	
				<i>For >1,000, Deduct</i>	-15.48	
26 05 33	13-2151	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial <small>(26 05 33 13-2137)</small>				
	26 05 33	13-2152	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	12.71	3.35
	26 05 33	13-2153	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	15.22	4.48

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2154 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	19.34	5.59
26 05 33 13-2155 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	21.82	6.15
26 05 33 13-2156 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	25.84	7.28
26 05 33 13-2157 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	33.32	8.39
26 05 33 13-2158 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	61.09	10.07
26 05 33 13-2159 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	77.71	13.98
26 05 33 13-2160 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	96.24	16.22
26 05 33 13-2161 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	119.36	22.37
26 05 33 13-2162 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	304.62	30.77
26 05 33 13-2163 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	306.22	17.35
26 05 33 13-2164 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-2137)		
Note: 90, 45, or 30 degree.		
26 05 33 13-2165 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	48.99	13.98
26 05 33 13-2166 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	56.49	17.35
26 05 33 13-2167 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	67.53	21.26
26 05 33 13-2168 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	79.97	24.61
26 05 33 13-2169 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	93.71	27.98
26 05 33 13-2170 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	114.26	30.77
26 05 33 13-2171 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	176.52	38.61
26 05 33 13-2172 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	263.88	52.59
26 05 33 13-2173 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	326.84	59.30
26 05 33 13-2174 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	374.53	77.20
26 05 33 13-2175 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	782.23	125.87
26 05 33 13-2176 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,230.86	189.08
26 05 33 13-2177 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2178 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	117.04	21.26
26 05 33 13-2179 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	131.66	24.61
26 05 33 13-2180 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	150.31	27.98
26 05 33 13-2181 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	179.56	30.77
26 05 33 13-2182 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	250.43	38.61
26 05 33 13-2183 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2184 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	130.44	21.26
26 05 33 13-2185 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	153.79	24.61
26 05 33 13-2186 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	166.17	27.98
26 05 33 13-2187 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	214.15	30.77
26 05 33 13-2188 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	283.79	38.61
26 05 33 13-2189 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	362.81	52.59
26 05 33 13-2190 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2191 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	146.45	21.26
26 05 33 13-2192 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	165.31	24.61
26 05 33 13-2193 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	186.53	27.98
26 05 33 13-2194 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	225.63	30.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2195 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	322.12	38.61
26 05 33 13-2196 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	407.81	52.59
26 05 33 13-2197 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	515.31	59.30
26 05 33 13-2198 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	579.86	77.20
26 05 33 13-2199 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2200 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	174.10	21.26
26 05 33 13-2201 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	192.36	24.61
26 05 33 13-2202 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	217.24	27.98
26 05 33 13-2203 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	269.85	30.77
26 05 33 13-2204 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	390.73	38.61
26 05 33 13-2205 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	484.06	52.59
26 05 33 13-2206 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	561.86	59.30
26 05 33 13-2207 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	665.32	77.20
26 05 33 13-2208 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2209 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	195.62	21.26
26 05 33 13-2210 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	217.54	24.61
26 05 33 13-2211 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	247.47	27.98
26 05 33 13-2212 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	308.35	30.77
26 05 33 13-2213 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	428.16	38.61
26 05 33 13-2214 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	545.05	52.59
26 05 33 13-2215 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	675.06	59.30
26 05 33 13-2216 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	743.78	77.20
26 05 33 13-2217 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,240.24	125.87
26 05 33 13-2218 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2219 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	223.76	21.26
26 05 33 13-2220 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	247.96	24.61
26 05 33 13-2221 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	280.60	27.98
26 05 33 13-2222 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	351.05	30.77
26 05 33 13-2223 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	490.53	38.61
26 05 33 13-2224 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	622.75	52.59
26 05 33 13-2225 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	731.77	59.30
26 05 33 13-2226 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	845.06	77.20
26 05 33 13-2227 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,311.22	125.87
26 05 33 13-2228 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,791.74	189.08
26 05 33 13-2229 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2230 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	262.94	21.26
26 05 33 13-2231 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	275.08	24.61

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2232 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	324.95	27.98
26 05 33 13-2233 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	410.48	30.77
26 05 33 13-2234 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	574.63	38.61
26 05 33 13-2235 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	727.50	52.59
26 05 33 13-2236 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	889.46	59.30
26 05 33 13-2237 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,042.09	77.20
26 05 33 13-2238 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,542.75	125.87
26 05 33 13-2239 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,898.02	189.08
26 05 33 13-2240 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2241 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	272.38	21.26
26 05 33 13-2242 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	320.96	24.61
26 05 33 13-2243 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	363.30	27.98
26 05 33 13-2244 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	428.36	30.77
26 05 33 13-2245 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	595.64	38.61
26 05 33 13-2246 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	759.72	52.59
26 05 33 13-2247 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	975.34	59.30
26 05 33 13-2248 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,086.78	77.20
26 05 33 13-2249 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,604.95	125.87
26 05 33 13-2250 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,952.02	189.08
26 05 33 13-2251 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2252 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	90.59	13.98
26 05 33 13-2253 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	98.43	17.35
26 05 33 13-2254 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	127.99	21.26
26 05 33 13-2255 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	186.78	24.61
26 05 33 13-2256 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	221.85	27.98
26 05 33 13-2257 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	282.64	30.77
26 05 33 13-2258 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	376.53	38.61
26 05 33 13-2259 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	489.87	38.61
26 05 33 13-2260 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	630.49	59.30
26 05 33 13-2261 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	811.68	77.20
26 05 33 13-2262 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,480.28	125.87
26 05 33 13-2263 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,841.35	189.08
26 05 33 13-2264 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2265 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	92.70	13.98
26 05 33 13-2266 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	106.49	17.35
26 05 33 13-2267 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	132.28	21.26
26 05 33 13-2268 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	194.66	24.61
26 05 33 13-2269 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	232.79	27.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2270 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	306.27	30.77
26 05 33 13-2271 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	427.09	38.61
26 05 33 13-2272 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	541.28	38.61
26 05 33 13-2273 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	723.43	59.30
26 05 33 13-2274 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	904.27	77.20
26 05 33 13-2275 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,650.02	125.87
26 05 33 13-2276 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,115.43	189.08
26 05 33 13-2277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-2137)</small>		
26 05 33 13-2278 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.19	6.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.03	
26 05 33 13-2279 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.88	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2280 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.35	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2281 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	48.09	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2282 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	52.23	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2283 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.58	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2284 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.30	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2285 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.80	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2286 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.69	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2287 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.03	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2288 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	59.59	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2289 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.75	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2290 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.47	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2291 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.12	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2292 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.03	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2293 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.36	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2294 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	60.47	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2295 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.05	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2296 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.78	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2297 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	45.59	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2298 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	52.44	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2299 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.91	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2300	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.18	15.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-2301	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	88.60	19.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33	13-2302	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	114.44	26.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33	13-2303	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.22	7.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33	13-2304	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.09	8.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-2305	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.93	10.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-2306	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.84	12.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33	13-2307	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.46	13.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-2308	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	65.90	15.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-2309	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.00	19.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33	13-2310	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	119.61	26.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33	13-2311	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	142.89	29.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33	13-2312	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	166.63	38.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33	13-2313	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.54	7.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33	13-2314	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.43	8.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-2315	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.30	10.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-2316	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.50	12.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33	13-2317	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.14	13.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-2318	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	67.38	15.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33	13-2319	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	100.56	19.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33	13-2320	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	127.35	26.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33	13-2321	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	144.54	29.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33	13-2322	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	171.05	38.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33	13-2323	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	252.27	53.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33	13-2324	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.14	7.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33	13-2325	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.04	8.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33	13-2326	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.95	10.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-2327	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.71	12.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2328 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.60	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2329 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	68.86	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2330 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	110.26	19.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-2331 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	137.63	26.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-2332 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	153.80	29.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-2333 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	186.67	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33 13-2334 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	275.63	53.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-2335 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.09	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2336 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.96	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2337 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.41	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2338 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.03	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2339 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.56	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2340 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	76.09	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2341 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	122.19	19.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-2342 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	151.70	26.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-2343 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	177.00	29.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-2344 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	210.13	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33 13-2345 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	291.64	53.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-2346 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.08	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2347 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.93	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2348 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.84	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2349 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.39	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2350 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.59	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2351 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	86.71	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2352 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	134.81	19.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-2353 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	169.73	26.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-2354 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	201.35	29.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-2355 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	251.18	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2356 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	323.59	53.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-2357 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.10	7.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.36	
26 05 33 13-2358 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.07	8.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-2359 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.48	10.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2360 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	67.57	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.38	
26 05 33 13-2361 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.11	13.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2362 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.25	15.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.40	
26 05 33 13-2363 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	151.65	19.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	
26 05 33 13-2364 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	196.75	26.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77	
26 05 33 13-2365 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	216.30	29.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-2366 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	263.77	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.16	
26 05 33 13-2367 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	328.15	53.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-2368 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2057)</small> Note: Direct burial or encased application.		
26 05 33 13-2369 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2368)</small> Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2370 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.28	1.36
<i>For Work In Restricted Working Space, Add</i>	1.02	
26 05 33 13-2371 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.29	1.46
<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 33 13-2372 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.94	1.56
<i>For Work In Restricted Working Space, Add</i>	1.18	
26 05 33 13-2373 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.58	1.67
<i>For Work In Restricted Working Space, Add</i>	1.25	
26 05 33 13-2374 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.44	1.77
<i>For Work In Restricted Working Space, Add</i>	1.33	
26 05 33 13-2375 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.92	1.88
<i>For Work In Restricted Working Space, Add</i>	1.41	
26 05 33 13-2376 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	14.80	1.99
<i>For Work In Restricted Working Space, Add</i>	1.49	
26 05 33 13-2377 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	17.04	2.10
<i>For Work In Restricted Working Space, Add</i>	1.57	
26 05 33 13-2378 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	18.78	2.20
<i>For Work In Restricted Working Space, Add</i>	1.65	
26 05 33 13-2379 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	20.51	2.30
<i>For Work In Restricted Working Space, Add</i>	1.73	
26 05 33 13-2380 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	24.46	2.41
<i>For Work In Restricted Working Space, Add</i>	1.81	
26 05 33 13-2381 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	29.34	2.51
<i>For Work In Restricted Working Space, Add</i>	1.88	
26 05 33 13-2382 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2368)</small>		
26 05 33 13-2383 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	135.10	10.46
<i>For Work In Restricted Working Space, Add</i>	7.85	
<i>For 24" Radius, Add</i>	9.48	
<i>For 36" Radius, Add</i>	13.51	
<i>For 48" Radius, Add</i>	17.54	
26 05 33 13-2384 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	153.35	12.55
<i>For Work In Restricted Working Space, Add</i>	9.41	
<i>For 24" Radius, Add</i>	10.72	
<i>For 36" Radius, Add</i>	15.34	
<i>For 48" Radius, Add</i>	19.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2385 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	159.82	14.64
<i>For Work In Restricted Working Space, Add</i>	10.98	
<i>For 24" Radius, Add</i>	11.07	
<i>For 36" Radius, Add</i>	15.98	
<i>For 48" Radius, Add</i>	20.89	
26 05 33 13-2386 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	166.26	16.73
<i>For Work In Restricted Working Space, Add</i>	12.55	
<i>For 24" Radius, Add</i>	11.42	
<i>For 36" Radius, Add</i>	16.63	
<i>For 48" Radius, Add</i>	21.83	
26 05 33 13-2387 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	172.72	18.83
<i>For Work In Restricted Working Space, Add</i>	14.12	
<i>For 24" Radius, Add</i>	11.78	
<i>For 36" Radius, Add</i>	17.27	
<i>For 48" Radius, Add</i>	22.77	
26 05 33 13-2388 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	195.28	20.91
<i>For Work In Restricted Working Space, Add</i>	15.69	
<i>For 24" Radius, Add</i>	13.34	
<i>For 36" Radius, Add</i>	19.53	
<i>For 48" Radius, Add</i>	25.72	
26 05 33 13-2389 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	228.66	23.01
<i>For Work In Restricted Working Space, Add</i>	17.26	
<i>For 24" Radius, Add</i>	15.71	
<i>For 36" Radius, Add</i>	22.87	
<i>For 48" Radius, Add</i>	30.02	
26 05 33 13-2390 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	268.12	25.10
<i>For Work In Restricted Working Space, Add</i>	18.83	
<i>For 24" Radius, Add</i>	18.54	
<i>For 36" Radius, Add</i>	26.81	
<i>For 48" Radius, Add</i>	35.08	
26 05 33 13-2391 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	304.25	29.29
<i>For Work In Restricted Working Space, Add</i>	21.96	
<i>For 24" Radius, Add</i>	20.99	
<i>For 36" Radius, Add</i>	30.43	
<i>For 48" Radius, Add</i>	39.86	
26 05 33 13-2392 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	340.38	37.65
<i>For Work In Restricted Working Space, Add</i>	25.10	
<i>For 24" Radius, Add</i>	23.44	
<i>For 36" Radius, Add</i>	34.04	
<i>For 48" Radius, Add</i>	44.64	
26 05 33 13-2393 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	415.01	37.65
<i>For Work In Restricted Working Space, Add</i>	28.24	
<i>For 24" Radius, Add</i>	28.77	
<i>For 36" Radius, Add</i>	41.50	
<i>For 48" Radius, Add</i>	54.23	
26 05 33 13-2394 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	505.69	41.84
<i>For Work In Restricted Working Space, Add</i>	31.37	
<i>For 24" Radius, Add</i>	35.31	
<i>For 36" Radius, Add</i>	50.57	
<i>For 48" Radius, Add</i>	65.83	
26 05 33 13-2395 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-2388)</small>		
26 05 33 13-2396 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	59.75	5.86
<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33 13-2397 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	67.00	6.70
<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33 13-2398 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	69.62	7.53
<i>For Work In Restricted Working Space, Add</i>	5.65	
26 05 33 13-2399 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	72.12	8.37
<i>For Work In Restricted Working Space, Add</i>	6.27	
26 05 33 13-2400 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	75.25	9.20
<i>For Work In Restricted Working Space, Add</i>	6.90	
26 05 33 13-2401 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	87.31	10.04
<i>For Work In Restricted Working Space, Add</i>	7.53	
26 05 33 13-2402 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	103.10	11.30
<i>For Work In Restricted Working Space, Add</i>	8.47	
26 05 33 13-2403 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	121.22	12.55
<i>For Work In Restricted Working Space, Add</i>	9.41	
26 05 33 13-2404 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	137.68	14.64
<i>For Work In Restricted Working Space, Add</i>	10.98	
26 05 33 13-2405 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	154.15	16.73
<i>For Work In Restricted Working Space, Add</i>	12.55	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2406	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	187.44	18.83
			<i>For Work In Restricted Working Space, Add</i>	14.12	
26 05 33	13-2407	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	227.71	20.91
			<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33 13-2408 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-2368)</small>					
26 05 33	13-2409	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	40.09	5.86
			<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33	13-2410	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	45.01	6.70
			<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33	13-2411	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	47.41	7.53
			<i>For Work In Restricted Working Space, Add</i>	5.65	
26 05 33	13-2412	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	49.79	8.37
			<i>For Work In Restricted Working Space, Add</i>	6.27	
26 05 33	13-2413	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	52.19	9.20
			<i>For Work In Restricted Working Space, Add</i>	6.90	
26 05 33	13-2414	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	54.45	10.04
			<i>For Work In Restricted Working Space, Add</i>	7.53	
26 05 33	13-2415	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	63.44	11.30
			<i>For Work In Restricted Working Space, Add</i>	8.47	
26 05 33	13-2416	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	73.64	12.55
			<i>For Work In Restricted Working Space, Add</i>	9.41	
26 05 33	13-2417	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	84.16	14.64
			<i>For Work In Restricted Working Space, Add</i>	10.98	
26 05 33	13-2418	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	94.68	16.73
			<i>For Work In Restricted Working Space, Add</i>	12.55	
26 05 33	13-2419	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	113.16	18.83
			<i>For Work In Restricted Working Space, Add</i>	14.12	
26 05 33	13-2420	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	134.86	20.91
			<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33 13-2421 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-2368)</small>					
26 05 33	13-2422	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	40.01	3.35
			<i>For Work In Restricted Working Space, Add</i>	2.51	
26 05 33	13-2423	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	44.58	3.77
			<i>For Work In Restricted Working Space, Add</i>	2.82	
26 05 33	13-2424	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	46.01	4.18
			<i>For Work In Restricted Working Space, Add</i>	3.14	
26 05 33	13-2425	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	47.27	4.60
			<i>For Work In Restricted Working Space, Add</i>	3.45	
26 05 33	13-2426	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	49.13	5.02
			<i>For Work In Restricted Working Space, Add</i>	3.77	
26 05 33	13-2427	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	58.20	5.86
			<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33	13-2428	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	70.02	7.11
			<i>For Work In Restricted Working Space, Add</i>	5.33	
26 05 33	13-2429	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	83.59	8.37
			<i>For Work In Restricted Working Space, Add</i>	6.27	
26 05 33	13-2430	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	96.66	10.46
			<i>For Work In Restricted Working Space, Add</i>	7.85	
26 05 33	13-2431	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	109.71	12.55
			<i>For Work In Restricted Working Space, Add</i>	9.41	
26 05 33	13-2432	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	134.49	14.64
			<i>For Work In Restricted Working Space, Add</i>	10.98	
26 05 33	13-2433	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	164.25	16.73
			<i>For Work In Restricted Working Space, Add</i>	12.55	
26 05 33 13-2434 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-2368)</small>					
26 05 33	13-2435	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	87.16	20.91
			<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33	13-2436	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	101.43	25.10
			<i>For Work In Restricted Working Space, Add</i>	18.83	
26 05 33	13-2437	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	112.32	29.29
			<i>For Work In Restricted Working Space, Add</i>	21.96	
26 05 33	13-2438	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	123.03	33.47
			<i>For Work In Restricted Working Space, Add</i>	25.10	
26 05 33	13-2439	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	129.16	35.56
			<i>For Work In Restricted Working Space, Add</i>	26.67	
26 05 33	13-2440	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	142.04	37.65
			<i>For Work In Restricted Working Space, Add</i>	28.24	
26 05 33	13-2441	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	156.87	39.74
			<i>For Work In Restricted Working Space, Add</i>	29.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2442 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	173.59	41.84
<i>For Work In Restricted Working Space, Add</i>	31.37	
26 05 33 13-2443 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	187.44	43.92
<i>For Work In Restricted Working Space, Add</i>	32.94	
26 05 33 13-2444 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	201.31	46.02
<i>For Work In Restricted Working Space, Add</i>	34.52	
26 05 33 13-2445 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	228.09	48.10
<i>For Work In Restricted Working Space, Add</i>	36.08	
26 05 33 13-2446 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	260.28	50.20
<i>For Work In Restricted Working Space, Add</i>	37.65	
26 05 33 13-2447 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-2368)</small>		
26 05 33 13-2448 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	101.32	20.91
<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33 13-2449 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	117.30	25.10
<i>For Work In Restricted Working Space, Add</i>	18.83	
26 05 33 13-2450 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	128.28	29.29
<i>For Work In Restricted Working Space, Add</i>	21.96	
26 05 33 13-2451 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	139.16	33.47
<i>For Work In Restricted Working Space, Add</i>	25.10	
26 05 33 13-2452 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	145.42	35.56
<i>For Work In Restricted Working Space, Add</i>	26.67	
26 05 33 13-2453 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	160.61	37.65
<i>For Work In Restricted Working Space, Add</i>	28.24	
26 05 33 13-2454 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	179.15	39.74
<i>For Work In Restricted Working Space, Add</i>	29.81	
26 05 33 13-2455 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	200.33	41.84
<i>For Work In Restricted Working Space, Add</i>	31.37	
26 05 33 13-2456 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	217.54	43.92
<i>For Work In Restricted Working Space, Add</i>	32.94	
26 05 33 13-2457 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	234.76	46.02
<i>For Work In Restricted Working Space, Add</i>	34.52	
26 05 33 13-2458 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	270.02	48.10
<i>For Work In Restricted Working Space, Add</i>	36.08	
26 05 33 13-2459 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	312.69	50.20
<i>For Work In Restricted Working Space, Add</i>	37.65	
26 05 33 13-2460 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-2368)</small>		
26 05 33 13-2461 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	131.22	5.86
<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33 13-2462 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	146.24	6.70
<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33 13-2463 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	152.32	7.53
<i>For Work In Restricted Working Space, Add</i>	5.65	
26 05 33 13-2464 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	158.55	8.37
<i>For Work In Restricted Working Space, Add</i>	6.27	
26 05 33 13-2465 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	162.79	9.20
<i>For Work In Restricted Working Space, Add</i>	6.90	
26 05 33 13-2466 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	178.18	10.04
<i>For Work In Restricted Working Space, Add</i>	7.53	
26 05 33 13-2467 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	211.95	11.30
<i>For Work In Restricted Working Space, Add</i>	8.47	
26 05 33 13-2468 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	251.71	12.55
<i>For Work In Restricted Working Space, Add</i>	9.41	
26 05 33 13-2469 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	284.50	14.64
<i>For Work In Restricted Working Space, Add</i>	10.98	
26 05 33 13-2470 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	317.29	16.73
<i>For Work In Restricted Working Space, Add</i>	12.55	
26 05 33 13-2471 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	391.48	18.83
<i>For Work In Restricted Working Space, Add</i>	14.12	
26 05 33 13-2472 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	480.14	20.91
<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33 13-2473 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-2368)</small>		
26 05 33 13-2474 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	125.94	20.91
<i>For Work In Restricted Working Space, Add</i>	15.69	
26 05 33 13-2475 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	144.60	25.10
<i>For Work In Restricted Working Space, Add</i>	18.83	
26 05 33 13-2476 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	174.32	29.29
<i>For Work In Restricted Working Space, Add</i>	21.96	
26 05 33 13-2477 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	219.99	33.47
<i>For Work In Restricted Working Space, Add</i>	25.10	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2478	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	275.78	35.56
			<i>For Work In Restricted Working Space, Add</i>	26.67	
26 05 33	13-2479	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	371.08	37.65
			<i>For Work In Restricted Working Space, Add</i>	28.24	
26 05 33	13-2480	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	535.18	39.74
			<i>For Work In Restricted Working Space, Add</i>	29.81	
26 05 33	13-2481	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	644.99	41.84
			<i>For Work In Restricted Working Space, Add</i>	31.37	
26 05 33	13-2482	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	774.43	43.92
			<i>For Work In Restricted Working Space, Add</i>	32.94	
26 05 33	13-2483	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	903.88	46.02
			<i>For Work In Restricted Working Space, Add</i>	34.52	
26 05 33	13-2484	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,057.27	48.10
			<i>For Work In Restricted Working Space, Add</i>	36.08	
26 05 33	13-2485	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,716.23	50.20
			<i>For Work In Restricted Working Space, Add</i>	37.65	
26 05 33 13-2486 Spacers <small>(26 05 33 13-2057)</small>					
Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-2057 for conduit.					
26 05 33	13-2487	EA	1" Base Spacers, Average 4" Wide, Direct Burial	11.27	
26 05 33	13-2488	EA	1" Intermediate Spacers, Average 4" Wide, Direct Burial	12.09	
26 05 33	13-2489	EA	1-1/4" Base Spacer, Average 4" Wide, Direct Burial	13.38	
26 05 33	13-2490	EA	1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	14.37	
26 05 33	13-2491	EA	1-1/2" Base Spacer, Average 4" Wide, Direct Burial	13.52	
26 05 33	13-2492	EA	1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	14.46	
26 05 33	13-2493	EA	2" Base Spacer, Average 4" Wide, Direct Burial	16.72	
26 05 33	13-2494	EA	2" Intermediate Spacers, Average 4" Wide, Direct Burial	15.53	
26 05 33	13-2495	EA	2-1/2" Base Spacer, Average 4" Wide, Direct Burial	18.47	
26 05 33	13-2496	EA	2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	17.87	
26 05 33	13-2497	EA	3" Base Spacer, Average 4" Wide, Direct Burial	21.10	
26 05 33	13-2498	EA	3" Intermediate Spacers, Average 4" Wide, Direct Burial	20.18	
26 05 33	13-2499	EA	3-1/2" Base Spacer, Average 4" Wide, Direct Burial	22.86	
26 05 33	13-2500	EA	3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	21.88	
26 05 33	13-2501	EA	4" Base Spacer, Average 4" Wide, Direct Burial	23.58	
26 05 33	13-2502	EA	4" Intermediate Spacers, Average 4" Wide, Direct Burial	22.49	
26 05 33	13-2503	EA	5" Base Spacer, Average 4" Wide, Direct Burial	26.07	
26 05 33	13-2504	EA	5" Intermediate Spacers, Average 4" Wide, Direct Burial	24.79	
26 05 33	13-2505	EA	6" Base Spacer, Average 4" Wide, Direct Burial	29.60	
26 05 33	13-2506	EA	6" Intermediate Spacers, Average 4" Wide, Direct Burial	28.50	
26 05 33 13-2507 Conduit Field Bending <small>(26 05 33 13-0058)</small>					
Note: Conduit tasks by LF include field bending up to and include 1" conduit.					
26 05 33 13-2508 Metallic Conduit Field Bending <small>(26 05 33 13-2507)</small>					
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), and Intermediate Metal Conduit (IMC).					
26 05 33	13-2509	EA	1-1/4" Metallic Conduit Field Bending	20.12	
			<i>For Aluminum Conduit Bending, Add</i>	13.28	
26 05 33	13-2510	EA	1-1/2" Metallic Conduit Field Bending	25.14	
			<i>For Aluminum Conduit Bending, Add</i>	16.59	
26 05 33	13-2511	EA	2" Metallic Conduit Field Bending	31.42	
			<i>For Aluminum Conduit Bending, Add</i>	20.74	
26 05 33	13-2512	EA	2-1/2" Metallic Conduit Field Bending	44.00	
			<i>For Aluminum Conduit Bending, Add</i>	29.04	
26 05 33	13-2513	EA	3" Metallic Conduit Field Bending	56.57	
			<i>For Aluminum Conduit Bending, Add</i>	37.34	
26 05 33	13-2514	EA	3-1/2" Metallic Conduit Field Bending	75.42	
			<i>For Aluminum Conduit Bending, Add</i>	49.78	
26 05 33	13-2515	EA	4" Metallic Conduit Field Bending	87.99	
			<i>For Aluminum Conduit Bending, Add</i>	58.07	
26 05 33	13-2516	EA	5" Metallic Conduit Field Bending	100.57	
			<i>For Aluminum Conduit Bending, Add</i>	66.38	
26 05 33	13-2517	EA	6" Metallic Conduit Field Bending	119.42	
			<i>For Aluminum Conduit Bending, Add</i>	78.82	
26 05 33 13-2518 Plastic Conduit Field Bending <small>(26 05 33 13-2507)</small>					
Note: For PVC conduits.					
26 05 33	13-2519	EA	1" Plastic Conduit Field Bending	28.91	
26 05 33	13-2520	EA	1-1/4" Plastic Conduit Field Bending	31.42	
26 05 33	13-2521	EA	1-1/2" Plastic Conduit Field Bending	37.71	
26 05 33	13-2522	EA	2" Plastic Conduit Field Bending	50.28	
26 05 33	13-2523	EA	2-1/2" Plastic Conduit Field Bending	62.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2524 EA 3" Plastic Conduit Field Bending.....	75.42	
26 05 33 13-2525 EA 3-1/2" Plastic Conduit Field Bending.....	87.99	
26 05 33 13-2526 EA 4" Plastic Conduit Field Bending.....	100.57	
26 05 33 13-2527 EA 5" Plastic Conduit Field Bending.....	113.13	
26 05 33 13-2528 EA 6" Plastic Conduit Field Bending.....	125.71	
 26 05 33 13-2529 Cut And Thread Existing In-Place Threaded Conduit <small>(26 05 33 13-0058)</small>		
<small>Note: For use when connecting conduit to an existing in-place system.</small>		
26 05 33 13-2530 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit.....	36.82	
<i>For Work In Restricted Working Space, Add</i>	11.05	
26 05 33 13-2531 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit.....	40.50	
<i>For Work In Restricted Working Space, Add</i>	12.15	
26 05 33 13-2532 EA 1", Cut And Thread Existing In-Place Threaded Conduit.....	44.19	
<i>For Work In Restricted Working Space, Add</i>	13.26	
26 05 33 13-2533 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	47.87	
<i>For Work In Restricted Working Space, Add</i>	14.36	
26 05 33 13-2534 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	50.33	
<i>For Work In Restricted Working Space, Add</i>	15.10	
26 05 33 13-2535 EA 2", Cut And Thread Existing In-Place Threaded Conduit.....	52.78	
<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-2536 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	55.23	
<i>For Work In Restricted Working Space, Add</i>	16.57	
26 05 33 13-2537 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	57.69	
<i>For Work In Restricted Working Space, Add</i>	17.31	
26 05 33 13-2538 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	58.92	
<i>For Work In Restricted Working Space, Add</i>	17.68	
26 05 33 13-2539 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	60.14	
<i>For Work In Restricted Working Space, Add</i>	18.04	
26 05 33 13-2540 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	62.60	
<i>For Work In Restricted Working Space, Add</i>	18.78	
26 05 33 13-2541 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	65.05	
<i>For Work In Restricted Working Space, Add</i>	19.52	
 26 05 33 13-2542 Metallic Conduit Bodies <small>(26 05 33 13-0058)</small>		
26 05 33 13-2543 Threaded, Cast Aluminum Conduit Body <small>(26 05 33 13-2542)</small>		
<small>Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)</small>		
 26 05 33 13-2544 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2543)</small>		
26 05 33 13-2545 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	63.25	21.48
<i>For Mogul LB, Add</i>	4.48	
<i>For Work In Restricted Working Space, Add</i>	16.11	
<i>For Elevated Installation >10' To 15', Add</i>	5.37	
<i>For Elevated Installation >15' To 20', Add</i>	10.74	
<i>For Elevated Installation >20' To 25', Add</i>	13.43	
<i>For Elevated Installation >25' To 30', Add</i>	18.80	
<i>For Elevated Installation >30' To 35', Add</i>	21.48	
<i>For Elevated Installation >35' To 40', Add</i>	26.85	
<i>For Elevated Installation >40', Add</i>	29.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.11	
26 05 33 13-2546 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	74.51	24.61
<i>For Mogul LB, Add</i>	6.65	
<i>For Work In Restricted Working Space, Add</i>	18.46	
<i>For Elevated Installation >10' To 15', Add</i>	6.15	
<i>For Elevated Installation >15' To 20', Add</i>	12.31	
<i>For Elevated Installation >20' To 25', Add</i>	15.39	
<i>For Elevated Installation >25' To 30', Add</i>	21.54	
<i>For Elevated Installation >30' To 35', Add</i>	24.62	
<i>For Elevated Installation >35' To 40', Add</i>	30.77	
<i>For Elevated Installation >40', Add</i>	33.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 05 33 13-2547 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	90.07	28.64
<i>For Mogul LB, Add</i>	10.26	
<i>For Work In Restricted Working Space, Add</i>	21.48	
<i>For Elevated Installation >10' To 15', Add</i>	7.16	
<i>For Elevated Installation >15' To 20', Add</i>	14.32	
<i>For Elevated Installation >20' To 25', Add</i>	17.90	
<i>For Elevated Installation >25' To 30', Add</i>	25.06	
<i>For Elevated Installation >30' To 35', Add</i>	28.64	
<i>For Elevated Installation >35' To 40', Add</i>	35.81	
<i>For Elevated Installation >40', Add</i>	39.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.48	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2548	EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	109.24	32.67
	For Mogul LB, Add	16.59	
	For Work In Restricted Working Space, Add	24.50	
	For Elevated Installation >10' To 15', Add	8.17	
	For Elevated Installation >15' To 20', Add	16.34	
	For Elevated Installation >20' To 25', Add	20.42	
	For Elevated Installation >25' To 30', Add	28.59	
	For Elevated Installation >30' To 35', Add	32.67	
	For Elevated Installation >35' To 40', Add	40.84	
	For Elevated Installation >40', Add	44.92	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-2549	EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	125.07	35.81
	For Mogul LB, Add	22.19	
	For Work In Restricted Working Space, Add	26.85	
	For Elevated Installation >10' To 15', Add	8.95	
	For Elevated Installation >15' To 20', Add	17.90	
	For Elevated Installation >20' To 25', Add	22.38	
	For Elevated Installation >25' To 30', Add	31.33	
	For Elevated Installation >30' To 35', Add	35.80	
	For Elevated Installation >35' To 40', Add	44.76	
	For Elevated Installation >40', Add	49.23	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-2550	EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	164.85	42.96
	For Mogul LB, Add	37.71	
	For Work In Restricted Working Space, Add	32.22	
	For Elevated Installation >10' To 15', Add	10.74	
	For Elevated Installation >15' To 20', Add	21.48	
	For Elevated Installation >20' To 25', Add	26.85	
	For Elevated Installation >25' To 30', Add	37.59	
	For Elevated Installation >30' To 35', Add	42.96	
	For Elevated Installation >35' To 40', Add	53.71	
	For Elevated Installation >40', Add	59.08	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.22	
26 05 33 13-2551	EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	278.17	60.42
	For Mogul LB, Add	87.79	
	For Work In Restricted Working Space, Add	45.32	
	For Elevated Installation >10' To 15', Add	15.11	
	For Elevated Installation >15' To 20', Add	30.21	
	For Elevated Installation >20' To 25', Add	37.76	
	For Elevated Installation >25' To 30', Add	52.87	
	For Elevated Installation >30' To 35', Add	60.42	
	For Elevated Installation >35' To 40', Add	75.53	
	For Elevated Installation >40', Add	83.08	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.32	
26 05 33 13-2552	EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	365.53	80.55
	For Mogul LB, Add	113.03	
	For Work In Restricted Working Space, Add	60.42	
	For Elevated Installation >10' To 15', Add	20.14	
	For Elevated Installation >15' To 20', Add	40.28	
	For Elevated Installation >20' To 25', Add	50.35	
	For Elevated Installation >25' To 30', Add	70.49	
	For Elevated Installation >30' To 35', Add	80.56	
	For Elevated Installation >35' To 40', Add	100.70	
	For Elevated Installation >40', Add	110.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.42	
26 05 33 13-2553	EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	486.48	100.70
	For Mogul LB, Add	163.47	
	For Work In Restricted Working Space, Add	75.52	
	For Elevated Installation >10' To 15', Add	25.17	
	For Elevated Installation >15' To 20', Add	50.35	
	For Elevated Installation >20' To 25', Add	62.94	
	For Elevated Installation >25' To 30', Add	88.11	
	For Elevated Installation >30' To 35', Add	100.70	
	For Elevated Installation >35' To 40', Add	125.87	
	For Elevated Installation >40', Add	138.46	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.52	
26 05 33 13-2554	EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	632.76	122.62
	For Mogul LB, Add	229.31	
	For Work In Restricted Working Space, Add	91.97	
	For Elevated Installation >10' To 15', Add	30.66	
	For Elevated Installation >15' To 20', Add	61.31	
	For Elevated Installation >20' To 25', Add	76.64	
	For Elevated Installation >25' To 30', Add	107.30	
	For Elevated Installation >30' To 35', Add	122.63	
	For Elevated Installation >35' To 40', Add	153.29	
	For Elevated Installation >40', Add	168.61	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.97	

26 05 33 13-2555 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover
(26 05 33 13-2543)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2556 EA 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	64.41	21.48
For Mogul LB, Add	5.35	
For Work In Restricted Working Space, Add	16.11	
For Elevated Installation >10' To 15', Add	5.37	
For Elevated Installation >15' To 20', Add	10.74	
For Elevated Installation >20' To 25', Add	13.43	
For Elevated Installation >25' To 30', Add	18.80	
For Elevated Installation >30' To 35', Add	21.48	
For Elevated Installation >35' To 40', Add	26.85	
For Elevated Installation >40', Add	29.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.11	
26 05 33 13-2557 EA 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	75.64	24.61
For Mogul LB, Add	7.50	
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-2558 EA 1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	92.35	28.64
For Mogul LB, Add	11.97	
For Work In Restricted Working Space, Add	21.48	
For Elevated Installation >10' To 15', Add	7.16	
For Elevated Installation >15' To 20', Add	14.32	
For Elevated Installation >20' To 25', Add	17.90	
For Elevated Installation >25' To 30', Add	25.06	
For Elevated Installation >30' To 35', Add	28.64	
For Elevated Installation >35' To 40', Add	35.81	
For Elevated Installation >40', Add	39.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.48	
26 05 33 13-2559 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	112.02	32.67
For Mogul LB, Add	18.67	
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.34	
For Elevated Installation >20' To 25', Add	20.42	
For Elevated Installation >25' To 30', Add	28.59	
For Elevated Installation >30' To 35', Add	32.67	
For Elevated Installation >35' To 40', Add	40.84	
For Elevated Installation >40', Add	44.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-2560 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	129.80	35.81
For Mogul LB, Add	25.74	
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-2561 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	175.00	42.96
For Mogul LB, Add	45.32	
For Work In Restricted Working Space, Add	32.22	
For Elevated Installation >10' To 15', Add	10.74	
For Elevated Installation >15' To 20', Add	21.48	
For Elevated Installation >20' To 25', Add	26.85	
For Elevated Installation >25' To 30', Add	37.59	
For Elevated Installation >30' To 35', Add	42.96	
For Elevated Installation >35' To 40', Add	53.71	
For Elevated Installation >40', Add	59.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.22	
26 05 33 13-2562 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	273.05	60.42
For Mogul LB, Add	83.95	
For Work In Restricted Working Space, Add	45.32	
For Elevated Installation >10' To 15', Add	15.11	
For Elevated Installation >15' To 20', Add	30.21	
For Elevated Installation >20' To 25', Add	37.76	
For Elevated Installation >25' To 30', Add	52.87	
For Elevated Installation >30' To 35', Add	60.42	
For Elevated Installation >35' To 40', Add	75.53	
For Elevated Installation >40', Add	83.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.32	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2563	EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	348.31 100.11 60.42 20.14 40.28 50.35 70.49 80.56 100.70 110.77 60.42	80.55
26 05 33 13-2564	EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.17 174.49 75.52 25.17 50.35 62.94 88.11 100.70 125.87 138.46 75.52	100.70
26 05 33 13-2565	EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Mogul LB, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	662.78 251.83 91.97 30.66 61.31 76.64 107.30 122.63 153.29 168.61 91.97	122.62
26 05 33 13-2566	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover ^{(26 05} _{33 13-2543)}		
26 05 33 13-2567	EA 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.20 18.46 6.15 12.31 15.39 21.54 24.62 30.77 33.85 18.46	24.61
26 05 33 13-2568	EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.91 21.48 7.16 14.32 17.90 25.06 28.64 35.81 39.39 21.48	28.64
26 05 33 13-2569	EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.39 23.50 7.83 15.66 19.58 27.41 31.33 39.16 43.08 23.50	31.33
26 05 33 13-2570	EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.48 26.85 8.95 17.90 22.38 31.33 35.80 44.76 49.23 26.85	35.81
26 05 33 13-2571	EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.90 29.54 9.85 19.69 24.62 34.46 39.38 49.23 54.15 29.54	39.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2572 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	192.96	46.09
For Work In Restricted Working Space, Add	34.57	
For Elevated Installation >10' To 15', Add	11.52	
For Elevated Installation >15' To 20', Add	23.05	
For Elevated Installation >20' To 25', Add	28.81	
For Elevated Installation >25' To 30', Add	40.33	
For Elevated Installation >30' To 35', Add	46.10	
For Elevated Installation >35' To 40', Add	57.62	
For Elevated Installation >40', Add	63.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.57	
26 05 33 13-2573 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	305.16	67.13
For Work In Restricted Working Space, Add	50.35	
For Elevated Installation >10' To 15', Add	16.78	
For Elevated Installation >15' To 20', Add	33.57	
For Elevated Installation >20' To 25', Add	41.96	
For Elevated Installation >25' To 30', Add	58.74	
For Elevated Installation >30' To 35', Add	67.13	
For Elevated Installation >35' To 40', Add	83.92	
For Elevated Installation >40', Add	92.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.35	
26 05 33 13-2574 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	394.23	87.27
For Work In Restricted Working Space, Add	65.45	
For Elevated Installation >10' To 15', Add	21.82	
For Elevated Installation >15' To 20', Add	43.64	
For Elevated Installation >20' To 25', Add	54.55	
For Elevated Installation >25' To 30', Add	76.36	
For Elevated Installation >30' To 35', Add	87.27	
For Elevated Installation >35' To 40', Add	109.09	
For Elevated Installation >40', Add	120.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.45	
26 05 33 13-2575 EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	634.16	107.41
For Work In Restricted Working Space, Add	80.56	
For Elevated Installation >10' To 15', Add	26.85	
For Elevated Installation >15' To 20', Add	53.70	
For Elevated Installation >20' To 25', Add	67.13	
For Elevated Installation >25' To 30', Add	93.98	
For Elevated Installation >30' To 35', Add	107.41	
For Elevated Installation >35' To 40', Add	134.26	
For Elevated Installation >40', Add	147.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.56	
26 05 33 13-2576 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	725.94	129.34
For Work In Restricted Working Space, Add	97.01	
For Elevated Installation >10' To 15', Add	32.34	
For Elevated Installation >15' To 20', Add	64.67	
For Elevated Installation >20' To 25', Add	80.84	
For Elevated Installation >25' To 30', Add	113.17	
For Elevated Installation >30' To 35', Add	129.34	
For Elevated Installation >35' To 40', Add	161.68	
For Elevated Installation >40', Add	177.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.01	
26 05 33 13-2577 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)		
26 05 33 13-2578 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	64.65	21.48
For Work In Restricted Working Space, Add	16.11	
For Elevated Installation >10' To 15', Add	5.37	
For Elevated Installation >15' To 20', Add	10.74	
For Elevated Installation >20' To 25', Add	13.43	
For Elevated Installation >25' To 30', Add	18.80	
For Elevated Installation >30' To 35', Add	21.48	
For Elevated Installation >35' To 40', Add	26.85	
For Elevated Installation >40', Add	29.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.11	
26 05 33 13-2579 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	74.84	24.61
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-2580 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	90.30	28.20
For Work In Restricted Working Space, Add	21.15	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.62	
For Elevated Installation >25' To 30', Add	24.67	
For Elevated Installation >30' To 35', Add	28.20	
For Elevated Installation >35' To 40', Add	35.25	
For Elevated Installation >40', Add	38.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2581	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	110.92	32.67
			<i>For Work In Restricted Working Space, Add</i>	24.50	
			<i>For Elevated Installation >10' To 15', Add</i>	8.17	
			<i>For Elevated Installation >15' To 20', Add</i>	16.34	
			<i>For Elevated Installation >20' To 25', Add</i>	20.42	
			<i>For Elevated Installation >25' To 30', Add</i>	28.59	
			<i>For Elevated Installation >30' To 35', Add</i>	32.67	
			<i>For Elevated Installation >35' To 40', Add</i>	40.84	
			<i>For Elevated Installation >40', Add</i>	44.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.50	
26 05 33	13-2582	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	124.30	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.85	
26 05 33	13-2583	EA	2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	164.93	42.96
			<i>For Work In Restricted Working Space, Add</i>	32.22	
			<i>For Elevated Installation >10' To 15', Add</i>	10.74	
			<i>For Elevated Installation >15' To 20', Add</i>	21.48	
			<i>For Elevated Installation >20' To 25', Add</i>	26.85	
			<i>For Elevated Installation >25' To 30', Add</i>	37.59	
			<i>For Elevated Installation >30' To 35', Add</i>	42.96	
			<i>For Elevated Installation >35' To 40', Add</i>	53.71	
			<i>For Elevated Installation >40', Add</i>	59.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.22	
26 05 33	13-2584	EA	2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	268.73	60.42
			<i>For Work In Restricted Working Space, Add</i>	45.32	
			<i>For Elevated Installation >10' To 15', Add</i>	15.11	
			<i>For Elevated Installation >15' To 20', Add</i>	30.21	
			<i>For Elevated Installation >20' To 25', Add</i>	37.76	
			<i>For Elevated Installation >25' To 30', Add</i>	52.87	
			<i>For Elevated Installation >30' To 35', Add</i>	60.42	
			<i>For Elevated Installation >35' To 40', Add</i>	75.53	
			<i>For Elevated Installation >40', Add</i>	83.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.32	
26 05 33	13-2585	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	345.55	80.55
			<i>For Work In Restricted Working Space, Add</i>	60.42	
			<i>For Elevated Installation >10' To 15', Add</i>	20.14	
			<i>For Elevated Installation >15' To 20', Add</i>	40.28	
			<i>For Elevated Installation >20' To 25', Add</i>	50.35	
			<i>For Elevated Installation >25' To 30', Add</i>	70.49	
			<i>For Elevated Installation >30' To 35', Add</i>	80.56	
			<i>For Elevated Installation >35' To 40', Add</i>	100.70	
			<i>For Elevated Installation >40', Add</i>	110.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.42	
26 05 33	13-2586	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	492.34	100.70
			<i>For Work In Restricted Working Space, Add</i>	75.52	
			<i>For Elevated Installation >10' To 15', Add</i>	25.17	
			<i>For Elevated Installation >15' To 20', Add</i>	50.35	
			<i>For Elevated Installation >20' To 25', Add</i>	62.94	
			<i>For Elevated Installation >25' To 30', Add</i>	88.11	
			<i>For Elevated Installation >30' To 35', Add</i>	100.70	
			<i>For Elevated Installation >35' To 40', Add</i>	125.87	
			<i>For Elevated Installation >40', Add</i>	138.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.52	
26 05 33	13-2587	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	635.52	122.62
			<i>For Work In Restricted Working Space, Add</i>	91.97	
			<i>For Elevated Installation >10' To 15', Add</i>	30.66	
			<i>For Elevated Installation >15' To 20', Add</i>	61.31	
			<i>For Elevated Installation >20' To 25', Add</i>	76.64	
			<i>For Elevated Installation >25' To 30', Add</i>	107.30	
			<i>For Elevated Installation >30' To 35', Add</i>	122.63	
			<i>For Elevated Installation >35' To 40', Add</i>	153.29	
			<i>For Elevated Installation >40', Add</i>	168.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.97	
26 05 33	13-2588		Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33)</small>		
26 05 33	13-2589	EA	1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>13-2543</small>	86.03	28.20
			<i>For Work In Restricted Working Space, Add</i>	21.15	
			<i>For Elevated Installation >10' To 15', Add</i>	7.05	
			<i>For Elevated Installation >15' To 20', Add</i>	14.10	
			<i>For Elevated Installation >20' To 25', Add</i>	17.62	
			<i>For Elevated Installation >25' To 30', Add</i>	24.67	
			<i>For Elevated Installation >30' To 35', Add</i>	28.20	
			<i>For Elevated Installation >35' To 40', Add</i>	35.25	
			<i>For Elevated Installation >40', Add</i>	38.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2590 EA 3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	99.34	31.33
For Work In Restricted Working Space, Add	23.50	
For Elevated Installation >10' To 15', Add	7.83	
For Elevated Installation >15' To 20', Add	15.66	
For Elevated Installation >20' To 25', Add	19.58	
For Elevated Installation >25' To 30', Add	27.41	
For Elevated Installation >30' To 35', Add	31.33	
For Elevated Installation >35' To 40', Add	39.16	
For Elevated Installation >40', Add	43.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.50	
26 05 33 13-2591 EA 1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	121.71	34.46
For Work In Restricted Working Space, Add	25.85	
For Elevated Installation >10' To 15', Add	8.62	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.54	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.46	
For Elevated Installation >35' To 40', Add	43.08	
For Elevated Installation >40', Add	47.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.85	
26 05 33 13-2592 EA 1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	140.33	39.39
For Work In Restricted Working Space, Add	29.54	
For Elevated Installation >10' To 15', Add	9.85	
For Elevated Installation >15' To 20', Add	19.69	
For Elevated Installation >20' To 25', Add	24.62	
For Elevated Installation >25' To 30', Add	34.46	
For Elevated Installation >30' To 35', Add	39.38	
For Elevated Installation >35' To 40', Add	49.23	
For Elevated Installation >40', Add	54.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.54	
26 05 33 13-2593 EA 1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	180.75	42.96
For Work In Restricted Working Space, Add	32.22	
For Elevated Installation >10' To 15', Add	10.74	
For Elevated Installation >15' To 20', Add	21.48	
For Elevated Installation >20' To 25', Add	26.85	
For Elevated Installation >25' To 30', Add	37.59	
For Elevated Installation >30' To 35', Add	42.96	
For Elevated Installation >35' To 40', Add	53.71	
For Elevated Installation >40', Add	59.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.22	
26 05 33 13-2594 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	218.51	52.81
For Work In Restricted Working Space, Add	39.61	
For Elevated Installation >10' To 15', Add	13.20	
For Elevated Installation >15' To 20', Add	26.41	
For Elevated Installation >20' To 25', Add	33.01	
For Elevated Installation >25' To 30', Add	46.21	
For Elevated Installation >30' To 35', Add	52.81	
For Elevated Installation >35' To 40', Add	66.02	
For Elevated Installation >40', Add	72.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.61	
26 05 33 13-2595 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	408.13	77.42
For Work In Restricted Working Space, Add	58.07	
For Elevated Installation >10' To 15', Add	19.36	
For Elevated Installation >15' To 20', Add	38.71	
For Elevated Installation >20' To 25', Add	48.39	
For Elevated Installation >25' To 30', Add	67.75	
For Elevated Installation >30' To 35', Add	77.42	
For Elevated Installation >35' To 40', Add	96.78	
For Elevated Installation >40', Add	106.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.07	
26 05 33 13-2596 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	503.10	100.70
For Work In Restricted Working Space, Add	75.52	
For Elevated Installation >10' To 15', Add	25.17	
For Elevated Installation >15' To 20', Add	50.35	
For Elevated Installation >20' To 25', Add	62.94	
For Elevated Installation >25' To 30', Add	88.11	
For Elevated Installation >30' To 35', Add	100.70	
For Elevated Installation >35' To 40', Add	125.87	
For Elevated Installation >40', Add	138.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.52	
26 05 33 13-2597 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	718.68	124.42
For Work In Restricted Working Space, Add	93.98	
For Elevated Installation >10' To 15', Add	31.33	
For Elevated Installation >15' To 20', Add	62.66	
For Elevated Installation >20' To 25', Add	78.32	
For Elevated Installation >25' To 30', Add	109.65	
For Elevated Installation >30' To 35', Add	125.31	
For Elevated Installation >35' To 40', Add	156.64	
For Elevated Installation >40', Add	172.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.98	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2598	EA	4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	868.26	149.48
			<i>For Work In Restricted Working Space, Add</i>	112.11	
			<i>For Elevated Installation >10' To 15', Add</i>	37.37	
			<i>For Elevated Installation >15' To 20', Add</i>	74.74	
			<i>For Elevated Installation >20' To 25', Add</i>	93.43	
			<i>For Elevated Installation >25' To 30', Add</i>	130.80	
			<i>For Elevated Installation >30' To 35', Add</i>	149.48	
			<i>For Elevated Installation >35' To 40', Add</i>	186.85	
			<i>For Elevated Installation >40', Add</i>	205.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.11	
26 05 33	13-2599		Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2542)</small>		
			Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)		
26 05 33	13-2600		Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2599)</small>		
26 05 33	13-2601	EA	1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	66.50	21.48
			<i>For Work In Restricted Working Space, Add</i>	16.11	
			<i>For Elevated Installation >10' To 15', Add</i>	5.37	
			<i>For Elevated Installation >15' To 20', Add</i>	10.74	
			<i>For Elevated Installation >20' To 25', Add</i>	13.43	
			<i>For Elevated Installation >25' To 30', Add</i>	18.80	
			<i>For Elevated Installation >30' To 35', Add</i>	21.48	
			<i>For Elevated Installation >35' To 40', Add</i>	26.85	
			<i>For Elevated Installation >40', Add</i>	29.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.11	
26 05 33	13-2602	EA	3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	77.22	24.61
			<i>For Work In Restricted Working Space, Add</i>	18.46	
			<i>For Elevated Installation >10' To 15', Add</i>	6.15	
			<i>For Elevated Installation >15' To 20', Add</i>	12.31	
			<i>For Elevated Installation >20' To 25', Add</i>	15.38	
			<i>For Elevated Installation >25' To 30', Add</i>	21.54	
			<i>For Elevated Installation >30' To 35', Add</i>	24.61	
			<i>For Elevated Installation >35' To 40', Add</i>	30.77	
			<i>For Elevated Installation >40', Add</i>	33.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 05 33	13-2603	EA	1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	94.99	28.64
			<i>For Work In Restricted Working Space, Add</i>	21.48	
			<i>For Elevated Installation >10' To 15', Add</i>	7.16	
			<i>For Elevated Installation >15' To 20', Add</i>	14.32	
			<i>For Elevated Installation >20' To 25', Add</i>	17.90	
			<i>For Elevated Installation >25' To 30', Add</i>	25.06	
			<i>For Elevated Installation >30' To 35', Add</i>	28.64	
			<i>For Elevated Installation >35' To 40', Add</i>	35.81	
			<i>For Elevated Installation >40', Add</i>	39.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.48	
26 05 33	13-2604	EA	1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	123.63	32.67
			<i>For Work In Restricted Working Space, Add</i>	24.50	
			<i>For Elevated Installation >10' To 15', Add</i>	8.17	
			<i>For Elevated Installation >15' To 20', Add</i>	16.34	
			<i>For Elevated Installation >20' To 25', Add</i>	20.42	
			<i>For Elevated Installation >25' To 30', Add</i>	28.59	
			<i>For Elevated Installation >30' To 35', Add</i>	32.67	
			<i>For Elevated Installation >35' To 40', Add</i>	40.84	
			<i>For Elevated Installation >40', Add</i>	44.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.50	
26 05 33	13-2605	EA	1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	140.97	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.95	
			<i>For Elevated Installation >15' To 20', Add</i>	17.90	
			<i>For Elevated Installation >20' To 25', Add</i>	22.38	
			<i>For Elevated Installation >25' To 30', Add</i>	31.33	
			<i>For Elevated Installation >30' To 35', Add</i>	35.80	
			<i>For Elevated Installation >35' To 40', Add</i>	44.76	
			<i>For Elevated Installation >40', Add</i>	49.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.85	
26 05 33	13-2606	EA	2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	193.53	42.96
			<i>For Work In Restricted Working Space, Add</i>	32.22	
			<i>For Elevated Installation >10' To 15', Add</i>	10.74	
			<i>For Elevated Installation >15' To 20', Add</i>	21.48	
			<i>For Elevated Installation >20' To 25', Add</i>	26.85	
			<i>For Elevated Installation >25' To 30', Add</i>	37.59	
			<i>For Elevated Installation >30' To 35', Add</i>	42.96	
			<i>For Elevated Installation >35' To 40', Add</i>	53.71	
			<i>For Elevated Installation >40', Add</i>	59.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.22	
26 05 33	13-2607	EA	2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	327.33	60.42
			<i>For Work In Restricted Working Space, Add</i>	45.32	
			<i>For Elevated Installation >10' To 15', Add</i>	15.11	
			<i>For Elevated Installation >15' To 20', Add</i>	30.21	
			<i>For Elevated Installation >20' To 25', Add</i>	37.76	
			<i>For Elevated Installation >25' To 30', Add</i>	52.87	
			<i>For Elevated Installation >30' To 35', Add</i>	60.42	
			<i>For Elevated Installation >35' To 40', Add</i>	75.53	
			<i>For Elevated Installation >40', Add</i>	83.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2608 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	464.37	80.55
<i>For Work In Restricted Working Space, Add</i>	60.42	
<i>For Elevated Installation >10' To 15', Add</i>	20.14	
<i>For Elevated Installation >15' To 20', Add</i>	40.28	
<i>For Elevated Installation >20' To 25', Add</i>	50.35	
<i>For Elevated Installation >25' To 30', Add</i>	70.49	
<i>For Elevated Installation >30' To 35', Add</i>	80.56	
<i>For Elevated Installation >35' To 40', Add</i>	100.70	
<i>For Elevated Installation >40', Add</i>	110.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.42	
26 05 33 13-2609 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	641.07	100.70
<i>For Work In Restricted Working Space, Add</i>	75.53	
<i>For Elevated Installation >10' To 15', Add</i>	25.18	
<i>For Elevated Installation >15' To 20', Add</i>	50.35	
<i>For Elevated Installation >20' To 25', Add</i>	62.94	
<i>For Elevated Installation >25' To 30', Add</i>	88.11	
<i>For Elevated Installation >30' To 35', Add</i>	100.70	
<i>For Elevated Installation >35' To 40', Add</i>	125.88	
<i>For Elevated Installation >40', Add</i>	138.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53	
26 05 33 13-2610 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	766.95	122.62
<i>For Work In Restricted Working Space, Add</i>	91.97	
<i>For Elevated Installation >10' To 15', Add</i>	30.66	
<i>For Elevated Installation >15' To 20', Add</i>	61.32	
<i>For Elevated Installation >20' To 25', Add</i>	76.65	
<i>For Elevated Installation >25' To 30', Add</i>	107.30	
<i>For Elevated Installation >30' To 35', Add</i>	122.63	
<i>For Elevated Installation >35' To 40', Add</i>	153.29	
<i>For Elevated Installation >40', Add</i>	168.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.97	
26 05 33 13-2611 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2599)</small>		
26 05 33 13-2612 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	69.46	21.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.11	
26 05 33 13-2613 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	78.09	24.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 05 33 13-2614 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	99.52	28.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.46	
26 05 33 13-2615 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	126.66	32.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.50	
26 05 33 13-2616 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	144.68	35.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.85	
26 05 33 13-2617 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	185.92	42.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.22	
26 05 33 13-2618 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	285.06	60.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.32	
26 05 33 13-2619 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	388.37	80.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.42	
26 05 33 13-2620 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	685.83	100.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53	
26 05 33 13-2621 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	799.97	122.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.97	
26 05 33 13-2622 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2599)</small>		
26 05 33 13-2623 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	82.67	24.61
<i>For Work In Restricted Working Space, Add</i>	18.46	
<i>For Elevated Installation >10' To 15', Add</i>	6.15	
<i>For Elevated Installation >15' To 20', Add</i>	12.31	
<i>For Elevated Installation >20' To 25', Add</i>	15.39	
<i>For Elevated Installation >25' To 30', Add</i>	21.54	
<i>For Elevated Installation >30' To 35', Add</i>	24.62	
<i>For Elevated Installation >35' To 40', Add</i>	30.77	
<i>For Elevated Installation >40', Add</i>	33.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 05 33 13-2624 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	97.43	28.64
<i>For Work In Restricted Working Space, Add</i>	21.82	
<i>For Elevated Installation >10' To 15', Add</i>	7.27	
<i>For Elevated Installation >15' To 20', Add</i>	14.54	
<i>For Elevated Installation >20' To 25', Add</i>	18.18	
<i>For Elevated Installation >25' To 30', Add</i>	25.45	
<i>For Elevated Installation >30' To 35', Add</i>	29.09	
<i>For Elevated Installation >35' To 40', Add</i>	36.36	
<i>For Elevated Installation >40', Add</i>	40.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2625	EA	1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	115.69	31.33
			<i>For Work In Restricted Working Space, Add</i>	23.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.83	
			<i>For Elevated Installation >15' To 20', Add</i>	15.66	
			<i>For Elevated Installation >20' To 25', Add</i>	19.58	
			<i>For Elevated Installation >25' To 30', Add</i>	27.41	
			<i>For Elevated Installation >30' To 35', Add</i>	31.33	
			<i>For Elevated Installation >35' To 40', Add</i>	39.16	
			<i>For Elevated Installation >40', Add</i>	43.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.50	
26 05 33	13-2626	EA	1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	146.30	35.81
			<i>For Work In Restricted Working Space, Add</i>	26.52	
			<i>For Elevated Installation >10' To 15', Add</i>	8.84	
			<i>For Elevated Installation >15' To 20', Add</i>	17.68	
			<i>For Elevated Installation >20' To 25', Add</i>	22.10	
			<i>For Elevated Installation >25' To 30', Add</i>	30.94	
			<i>For Elevated Installation >30' To 35', Add</i>	35.36	
			<i>For Elevated Installation >35' To 40', Add</i>	44.20	
			<i>For Elevated Installation >40', Add</i>	48.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.52	
26 05 33	13-2627	EA	1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	168.05	39.39
			<i>For Work In Restricted Working Space, Add</i>	29.54	
			<i>For Elevated Installation >10' To 15', Add</i>	9.85	
			<i>For Elevated Installation >15' To 20', Add</i>	19.69	
			<i>For Elevated Installation >20' To 25', Add</i>	24.62	
			<i>For Elevated Installation >25' To 30', Add</i>	34.46	
			<i>For Elevated Installation >30' To 35', Add</i>	39.38	
			<i>For Elevated Installation >35' To 40', Add</i>	49.23	
			<i>For Elevated Installation >40', Add</i>	54.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.54	
26 05 33	13-2628	EA	2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	224.26	46.09
			<i>For Work In Restricted Working Space, Add</i>	34.57	
			<i>For Elevated Installation >10' To 15', Add</i>	11.52	
			<i>For Elevated Installation >15' To 20', Add</i>	23.05	
			<i>For Elevated Installation >20' To 25', Add</i>	28.81	
			<i>For Elevated Installation >25' To 30', Add</i>	40.33	
			<i>For Elevated Installation >30' To 35', Add</i>	46.10	
			<i>For Elevated Installation >35' To 40', Add</i>	57.62	
			<i>For Elevated Installation >40', Add</i>	63.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.57	
26 05 33	13-2629	EA	2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	282.21	67.13
			<i>For Work In Restricted Working Space, Add</i>	50.35	
			<i>For Elevated Installation >10' To 15', Add</i>	16.78	
			<i>For Elevated Installation >15' To 20', Add</i>	33.57	
			<i>For Elevated Installation >20' To 25', Add</i>	41.96	
			<i>For Elevated Installation >25' To 30', Add</i>	58.74	
			<i>For Elevated Installation >30' To 35', Add</i>	67.13	
			<i>For Elevated Installation >35' To 40', Add</i>	83.92	
			<i>For Elevated Installation >40', Add</i>	92.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.35	
26 05 33	13-2630	EA	3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	408.24	87.27
			<i>For Work In Restricted Working Space, Add</i>	65.45	
			<i>For Elevated Installation >10' To 15', Add</i>	21.82	
			<i>For Elevated Installation >15' To 20', Add</i>	43.64	
			<i>For Elevated Installation >20' To 25', Add</i>	54.55	
			<i>For Elevated Installation >25' To 30', Add</i>	76.36	
			<i>For Elevated Installation >30' To 35', Add</i>	87.27	
			<i>For Elevated Installation >35' To 40', Add</i>	109.09	
			<i>For Elevated Installation >40', Add</i>	120.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.45	
26 05 33	13-2631	EA	3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	723.27	107.41
			<i>For Work In Restricted Working Space, Add</i>	80.56	
			<i>For Elevated Installation >10' To 15', Add</i>	26.85	
			<i>For Elevated Installation >15' To 20', Add</i>	53.70	
			<i>For Elevated Installation >20' To 25', Add</i>	67.13	
			<i>For Elevated Installation >25' To 30', Add</i>	93.98	
			<i>For Elevated Installation >30' To 35', Add</i>	107.41	
			<i>For Elevated Installation >35' To 40', Add</i>	134.26	
			<i>For Elevated Installation >40', Add</i>	147.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.56	
26 05 33	13-2632	EA	4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	835.72	129.34
			<i>For Work In Restricted Working Space, Add</i>	97.34	
			<i>For Elevated Installation >10' To 15', Add</i>	32.45	
			<i>For Elevated Installation >15' To 20', Add</i>	64.89	
			<i>For Elevated Installation >20' To 25', Add</i>	81.12	
			<i>For Elevated Installation >25' To 30', Add</i>	113.56	
			<i>For Elevated Installation >30' To 35', Add</i>	129.79	
			<i>For Elevated Installation >35' To 40', Add</i>	162.24	
			<i>For Elevated Installation >40', Add</i>	178.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.34	

26 05 33 13-2633 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2634 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	66.72	21.48
For Work In Restricted Working Space, Add	16.11	
For Elevated Installation >10' To 15', Add	5.37	
For Elevated Installation >15' To 20', Add	10.74	
For Elevated Installation >20' To 25', Add	13.43	
For Elevated Installation >25' To 30', Add	18.80	
For Elevated Installation >30' To 35', Add	21.48	
For Elevated Installation >35' To 40', Add	26.85	
For Elevated Installation >40', Add	29.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.11	
26 05 33 13-2635 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	81.06	24.61
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-2636 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	94.94	28.20
For Work In Restricted Working Space, Add	21.15	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.62	
For Elevated Installation >25' To 30', Add	24.67	
For Elevated Installation >30' To 35', Add	28.20	
For Elevated Installation >35' To 40', Add	35.25	
For Elevated Installation >40', Add	38.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.15	
26 05 33 13-2637 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	129.21	32.67
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.34	
For Elevated Installation >20' To 25', Add	20.42	
For Elevated Installation >25' To 30', Add	28.59	
For Elevated Installation >30' To 35', Add	32.67	
For Elevated Installation >35' To 40', Add	40.84	
For Elevated Installation >40', Add	44.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-2638 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	151.43	35.81
For Work In Restricted Working Space, Add	26.85	
For Elevated Installation >10' To 15', Add	8.95	
For Elevated Installation >15' To 20', Add	17.90	
For Elevated Installation >20' To 25', Add	22.38	
For Elevated Installation >25' To 30', Add	31.33	
For Elevated Installation >30' To 35', Add	35.80	
For Elevated Installation >35' To 40', Add	44.76	
For Elevated Installation >40', Add	49.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.85	
26 05 33 13-2639 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	196.52	42.96
For Work In Restricted Working Space, Add	32.22	
For Elevated Installation >10' To 15', Add	10.74	
For Elevated Installation >15' To 20', Add	21.48	
For Elevated Installation >20' To 25', Add	26.85	
For Elevated Installation >25' To 30', Add	37.59	
For Elevated Installation >30' To 35', Add	42.96	
For Elevated Installation >35' To 40', Add	53.71	
For Elevated Installation >40', Add	59.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.22	
26 05 33 13-2640 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	436.39	113.34
For Work In Restricted Working Space, Add	84.97	
For Elevated Installation >10' To 15', Add	28.32	
For Elevated Installation >15' To 20', Add	56.65	
For Elevated Installation >20' To 25', Add	70.81	
For Elevated Installation >25' To 30', Add	99.13	
For Elevated Installation >30' To 35', Add	113.29	
For Elevated Installation >35' To 40', Add	141.62	
For Elevated Installation >40', Add	155.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.97	
26 05 33 13-2641 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	420.29	80.55
For Work In Restricted Working Space, Add	60.42	
For Elevated Installation >10' To 15', Add	20.14	
For Elevated Installation >15' To 20', Add	40.28	
For Elevated Installation >20' To 25', Add	50.35	
For Elevated Installation >25' To 30', Add	70.49	
For Elevated Installation >30' To 35', Add	80.56	
For Elevated Installation >35' To 40', Add	100.70	
For Elevated Installation >40', Add	110.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2642	EA	3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	685.83	100.70
			<i>For Work In Restricted Working Space, Add</i>	75.53	
			<i>For Elevated Installation >10' To 15', Add</i>	25.18	
			<i>For Elevated Installation >15' To 20', Add</i>	50.35	
			<i>For Elevated Installation >20' To 25', Add</i>	62.94	
			<i>For Elevated Installation >25' To 30', Add</i>	88.11	
			<i>For Elevated Installation >30' To 35', Add</i>	100.70	
			<i>For Elevated Installation >35' To 40', Add</i>	125.88	
			<i>For Elevated Installation >40', Add</i>	138.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53	
26 05 33	13-2643	EA	4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	799.95	122.62
			<i>For Work In Restricted Working Space, Add</i>	91.97	
			<i>For Elevated Installation >10' To 15', Add</i>	30.66	
			<i>For Elevated Installation >15' To 20', Add</i>	61.31	
			<i>For Elevated Installation >20' To 25', Add</i>	76.64	
			<i>For Elevated Installation >25' To 30', Add</i>	107.30	
			<i>For Elevated Installation >30' To 35', Add</i>	122.62	
			<i>For Elevated Installation >35' To 40', Add</i>	153.28	
			<i>For Elevated Installation >40', Add</i>	168.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.97	
26 05 33	13-2644		Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover <small>(26 05 33)</small>		
			<small>13-2599</small>		
26 05 33	13-2645	EA	1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	93.92	28.20
			<i>For Work In Restricted Working Space, Add</i>	21.15	
			<i>For Elevated Installation >10' To 15', Add</i>	7.05	
			<i>For Elevated Installation >15' To 20', Add</i>	14.10	
			<i>For Elevated Installation >20' To 25', Add</i>	17.62	
			<i>For Elevated Installation >25' To 30', Add</i>	24.67	
			<i>For Elevated Installation >30' To 35', Add</i>	28.20	
			<i>For Elevated Installation >35' To 40', Add</i>	35.25	
			<i>For Elevated Installation >40', Add</i>	38.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.15	
26 05 33	13-2646	EA	3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	102.62	31.33
			<i>For Work In Restricted Working Space, Add</i>	23.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.83	
			<i>For Elevated Installation >15' To 20', Add</i>	15.66	
			<i>For Elevated Installation >20' To 25', Add</i>	19.58	
			<i>For Elevated Installation >25' To 30', Add</i>	27.41	
			<i>For Elevated Installation >30' To 35', Add</i>	31.33	
			<i>For Elevated Installation >35' To 40', Add</i>	39.16	
			<i>For Elevated Installation >40', Add</i>	43.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.50	
26 05 33	13-2647	EA	1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	119.50	34.46
			<i>For Work In Restricted Working Space, Add</i>	25.85	
			<i>For Elevated Installation >10' To 15', Add</i>	8.62	
			<i>For Elevated Installation >15' To 20', Add</i>	17.23	
			<i>For Elevated Installation >20' To 25', Add</i>	21.54	
			<i>For Elevated Installation >25' To 30', Add</i>	30.15	
			<i>For Elevated Installation >30' To 35', Add</i>	34.46	
			<i>For Elevated Installation >35' To 40', Add</i>	43.08	
			<i>For Elevated Installation >40', Add</i>	47.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.85	
26 05 33	13-2648	EA	1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	142.49	39.39
			<i>For Work In Restricted Working Space, Add</i>	29.54	
			<i>For Elevated Installation >10' To 15', Add</i>	9.85	
			<i>For Elevated Installation >15' To 20', Add</i>	19.69	
			<i>For Elevated Installation >20' To 25', Add</i>	24.62	
			<i>For Elevated Installation >25' To 30', Add</i>	34.46	
			<i>For Elevated Installation >30' To 35', Add</i>	39.38	
			<i>For Elevated Installation >35' To 40', Add</i>	49.23	
			<i>For Elevated Installation >40', Add</i>	54.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.54	
26 05 33	13-2649	EA	1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	164.86	42.96
			<i>For Work In Restricted Working Space, Add</i>	32.22	
			<i>For Elevated Installation >10' To 15', Add</i>	10.74	
			<i>For Elevated Installation >15' To 20', Add</i>	21.48	
			<i>For Elevated Installation >20' To 25', Add</i>	26.85	
			<i>For Elevated Installation >25' To 30', Add</i>	37.59	
			<i>For Elevated Installation >30' To 35', Add</i>	42.96	
			<i>For Elevated Installation >35' To 40', Add</i>	53.71	
			<i>For Elevated Installation >40', Add</i>	59.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.22	
26 05 33	13-2650	EA	2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	232.04	52.81
			<i>For Work In Restricted Working Space, Add</i>	39.61	
			<i>For Elevated Installation >10' To 15', Add</i>	13.20	
			<i>For Elevated Installation >15' To 20', Add</i>	26.41	
			<i>For Elevated Installation >20' To 25', Add</i>	33.01	
			<i>For Elevated Installation >25' To 30', Add</i>	46.21	
			<i>For Elevated Installation >30' To 35', Add</i>	52.81	
			<i>For Elevated Installation >35' To 40', Add</i>	66.02	
			<i>For Elevated Installation >40', Add</i>	72.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2651 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	372.13	77.42
<i>For Work In Restricted Working Space, Add</i>	58.07	
<i>For Elevated Installation >10' To 15', Add</i>	19.36	
<i>For Elevated Installation >15' To 20', Add</i>	38.71	
<i>For Elevated Installation >20' To 25', Add</i>	48.39	
<i>For Elevated Installation >25' To 30', Add</i>	67.75	
<i>For Elevated Installation >30' To 35', Add</i>	77.42	
<i>For Elevated Installation >35' To 40', Add</i>	96.78	
<i>For Elevated Installation >40', Add</i>	106.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.07	
26 05 33 13-2652 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	548.47	100.70
<i>For Work In Restricted Working Space, Add</i>	75.52	
<i>For Elevated Installation >10' To 15', Add</i>	25.17	
<i>For Elevated Installation >15' To 20', Add</i>	50.35	
<i>For Elevated Installation >20' To 25', Add</i>	62.94	
<i>For Elevated Installation >25' To 30', Add</i>	88.11	
<i>For Elevated Installation >30' To 35', Add</i>	100.70	
<i>For Elevated Installation >35' To 40', Add</i>	125.87	
<i>For Elevated Installation >40', Add</i>	138.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.52	
26 05 33 13-2653 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	824.17	124.42
<i>For Work In Restricted Working Space, Add</i>	93.31	
<i>For Elevated Installation >10' To 15', Add</i>	31.10	
<i>For Elevated Installation >15' To 20', Add</i>	62.21	
<i>For Elevated Installation >20' To 25', Add</i>	77.76	
<i>For Elevated Installation >25' To 30', Add</i>	108.86	
<i>For Elevated Installation >30' To 35', Add</i>	124.42	
<i>For Elevated Installation >35' To 40', Add</i>	155.52	
<i>For Elevated Installation >40', Add</i>	171.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.31	
26 05 33 13-2654 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	918.52	149.48
<i>For Work In Restricted Working Space, Add</i>	112.11	
<i>For Elevated Installation >10' To 15', Add</i>	37.37	
<i>For Elevated Installation >15' To 20', Add</i>	74.74	
<i>For Elevated Installation >20' To 25', Add</i>	93.43	
<i>For Elevated Installation >25' To 30', Add</i>	130.80	
<i>For Elevated Installation >30' To 35', Add</i>	149.48	
<i>For Elevated Installation >35' To 40', Add</i>	186.85	
<i>For Elevated Installation >40', Add</i>	205.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.11	
26 05 33 13-2655 Set Screw, Cast Aluminum Conduit Body <small>(26 05 33 13-2542)</small>		
<i>Note: For use with Electrical Metallic Tubing (EMT)</i>		
26 05 33 13-2656 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2655)</small>		
26 05 33 13-2657 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	32.37	8.50
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.32	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-2658 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	41.33	11.19
<i>For Work In Restricted Working Space, Add</i>	8.39	
<i>For Elevated Installation >10' To 15', Add</i>	2.80	
<i>For Elevated Installation >15' To 20', Add</i>	5.60	
<i>For Elevated Installation >20' To 25', Add</i>	7.00	
<i>For Elevated Installation >25' To 30', Add</i>	9.79	
<i>For Elevated Installation >30' To 35', Add</i>	11.19	
<i>For Elevated Installation >35' To 40', Add</i>	13.99	
<i>For Elevated Installation >40', Add</i>	15.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33 13-2659 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	56.24	13.87
<i>For Work In Restricted Working Space, Add</i>	10.40	
<i>For Elevated Installation >10' To 15', Add</i>	3.47	
<i>For Elevated Installation >15' To 20', Add</i>	6.94	
<i>For Elevated Installation >20' To 25', Add</i>	8.67	
<i>For Elevated Installation >25' To 30', Add</i>	12.14	
<i>For Elevated Installation >30' To 35', Add</i>	13.87	
<i>For Elevated Installation >35' To 40', Add</i>	17.34	
<i>For Elevated Installation >40', Add</i>	19.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-2660 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	73.18	17.00
<i>For Work In Restricted Working Space, Add</i>	12.76	
<i>For Elevated Installation >10' To 15', Add</i>	4.25	
<i>For Elevated Installation >15' To 20', Add</i>	8.50	
<i>For Elevated Installation >20' To 25', Add</i>	10.63	
<i>For Elevated Installation >25' To 30', Add</i>	14.88	
<i>For Elevated Installation >30' To 35', Add</i>	17.01	
<i>For Elevated Installation >35' To 40', Add</i>	21.26	
<i>For Elevated Installation >40', Add</i>	23.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.76	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2661	EA	1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	96.93	19.69
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.92	
			<i>For Elevated Installation >15' To 20', Add</i>	9.85	
			<i>For Elevated Installation >20' To 25', Add</i>	12.31	
			<i>For Elevated Installation >25' To 30', Add</i>	17.23	
			<i>For Elevated Installation >30' To 35', Add</i>	19.69	
			<i>For Elevated Installation >35' To 40', Add</i>	24.62	
			<i>For Elevated Installation >40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-2662	EA	2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	129.35	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	
26 05 33 13-2663 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover					
26 05 33	13-2664	EA	1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	32.68	8.50
			<i>For Work In Restricted Working Space, Add</i>	6.38	
			<i>For Elevated Installation >10' To 15', Add</i>	2.13	
			<i>For Elevated Installation >15' To 20', Add</i>	4.25	
			<i>For Elevated Installation >20' To 25', Add</i>	5.32	
			<i>For Elevated Installation >25' To 30', Add</i>	7.44	
			<i>For Elevated Installation >30' To 35', Add</i>	8.50	
			<i>For Elevated Installation >35' To 40', Add</i>	10.63	
			<i>For Elevated Installation >40', Add</i>	11.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33	13-2665	EA	3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	42.51	11.19
			<i>For Work In Restricted Working Space, Add</i>	8.39	
			<i>For Elevated Installation >10' To 15', Add</i>	2.80	
			<i>For Elevated Installation >15' To 20', Add</i>	5.60	
			<i>For Elevated Installation >20' To 25', Add</i>	7.00	
			<i>For Elevated Installation >25' To 30', Add</i>	9.79	
			<i>For Elevated Installation >30' To 35', Add</i>	11.19	
			<i>For Elevated Installation >35' To 40', Add</i>	13.99	
			<i>For Elevated Installation >40', Add</i>	15.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.39	
26 05 33	13-2666	EA	1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	52.16	13.87
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.94	
			<i>For Elevated Installation >20' To 25', Add</i>	8.67	
			<i>For Elevated Installation >25' To 30', Add</i>	12.14	
			<i>For Elevated Installation >30' To 35', Add</i>	13.87	
			<i>For Elevated Installation >35' To 40', Add</i>	17.34	
			<i>For Elevated Installation >40', Add</i>	19.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33	13-2667	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	72.84	17.00
			<i>For Work In Restricted Working Space, Add</i>	12.76	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.01	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.76	
26 05 33	13-2668	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	90.15	19.69
			<i>For Work In Restricted Working Space, Add</i>	14.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.92	
			<i>For Elevated Installation >15' To 20', Add</i>	9.85	
			<i>For Elevated Installation >20' To 25', Add</i>	12.31	
			<i>For Elevated Installation >25' To 30', Add</i>	17.23	
			<i>For Elevated Installation >30' To 35', Add</i>	19.69	
			<i>For Elevated Installation >35' To 40', Add</i>	24.62	
			<i>For Elevated Installation >40', Add</i>	27.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.77	
26 05 33	13-2669	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	128.76	22.37
			<i>For Work In Restricted Working Space, Add</i>	16.78	
			<i>For Elevated Installation >10' To 15', Add</i>	5.59	
			<i>For Elevated Installation >15' To 20', Add</i>	11.19	
			<i>For Elevated Installation >20' To 25', Add</i>	13.99	
			<i>For Elevated Installation >25' To 30', Add</i>	19.58	
			<i>For Elevated Installation >30' To 35', Add</i>	22.38	
			<i>For Elevated Installation >35' To 40', Add</i>	27.97	
			<i>For Elevated Installation >40', Add</i>	30.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2670 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2671 EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	41.97	11.19
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	
26 05 33 13-2672 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	54.84	13.87
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.67	
For Elevated Installation >25' To 30', Add	12.14	
For Elevated Installation >30' To 35', Add	13.87	
For Elevated Installation >35' To 40', Add	17.34	
For Elevated Installation >40', Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-2673 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	66.08	17.00
For Work In Restricted Working Space, Add	12.76	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.01	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.76	
26 05 33 13-2674 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	92.14	19.69
For Work In Restricted Working Space, Add	15.44	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.58	
For Elevated Installation >35' To 40', Add	25.73	
For Elevated Installation >40', Add	28.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.44	
26 05 33 13-2675 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	118.73	22.37
For Work In Restricted Working Space, Add	18.13	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.08	
For Elevated Installation >20' To 25', Add	15.11	
For Elevated Installation >25' To 30', Add	21.15	
For Elevated Installation >30' To 35', Add	24.17	
For Elevated Installation >35' To 40', Add	30.21	
For Elevated Installation >40', Add	33.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.13	
26 05 33 13-2676 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	161.00	25.06
For Work In Restricted Working Space, Add	20.81	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.87	
For Elevated Installation >20' To 25', Add	17.34	
For Elevated Installation >25' To 30', Add	24.28	
For Elevated Installation >30' To 35', Add	27.75	
For Elevated Installation >35' To 40', Add	34.69	
For Elevated Installation >40', Add	38.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.81	
26 05 33 13-2677 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2678 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	33.67	8.50
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-2679 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	45.11	11.19
For Work In Restricted Working Space, Add	8.39	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.79	
For Elevated Installation >30' To 35', Add	11.19	
For Elevated Installation >35' To 40', Add	13.99	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2680 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	57.72	13.87
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.67	
For Elevated Installation >25' To 30', Add	12.14	
For Elevated Installation >30' To 35', Add	13.87	
For Elevated Installation >35' To 40', Add	17.34	
For Elevated Installation >40', Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-2681 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	74.95	17.00
For Work In Restricted Working Space, Add	12.76	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.01	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.76	
26 05 33 13-2682 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	91.36	19.69
For Work In Restricted Working Space, Add	14.77	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.85	
For Elevated Installation >20' To 25', Add	12.31	
For Elevated Installation >25' To 30', Add	17.23	
For Elevated Installation >30' To 35', Add	19.69	
For Elevated Installation >35' To 40', Add	24.62	
For Elevated Installation >40', Add	27.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.77	
26 05 33 13-2683 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	140.08	22.37
For Work In Restricted Working Space, Add	16.78	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.19	
For Elevated Installation >20' To 25', Add	13.99	
For Elevated Installation >25' To 30', Add	19.58	
For Elevated Installation >30' To 35', Add	22.38	
For Elevated Installation >35' To 40', Add	27.97	
For Elevated Installation >40', Add	30.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.78	
26 05 33 13-2684 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-2542)</small>		
26 05 33 13-2685 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120)	162.47	24.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.39	
26 05 33 13-2686 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250)	610.72	45.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.00	
26 05 33 13-2687 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400)	1,174.41	91.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.98	
26 05 33 13-2688 Replacement Covers And Gaskets For Conduit Body <small>(26 05 33 13-2542)</small>		
26 05 33 13-2689 Replacement Stamped Aluminum Conduit Body Cover <small>(26 05 33 13-2688)</small>		
26 05 33 13-2690 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover	11.85	4.37
26 05 33 13-2691 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover	14.55	5.09
26 05 33 13-2692 EA 1" Replacement Stamped Aluminum Conduit Body Cover	18.64	6.54
26 05 33 13-2693 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover	22.68	8.00
26 05 33 13-2694 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover	27.96	9.46
26 05 33 13-2695 EA 2" Replacement Stamped Aluminum Conduit Body Cover	33.22	10.91
26 05 33 13-2696 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover	44.44	12.37
26 05 33 13-2697 EA 3" Replacement Stamped Aluminum Conduit Body Cover	57.02	17.46
26 05 33 13-2698 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover	61.87	19.63
26 05 33 13-2699 EA 4" Replacement Stamped Aluminum Conduit Body Cover	77.96	24.72
26 05 33 13-2700 Replacement Cast Steel Conduit Body Cover <small>(26 05 33 13-2688)</small>		
26 05 33 13-2701 EA 1/2" Replacement Cast Steel Conduit Body Cover	13.98	4.37
26 05 33 13-2702 EA 3/4" Replacement Cast Steel Conduit Body Cover	16.41	5.09
26 05 33 13-2703 EA 1" Replacement Cast Steel Conduit Body Cover	23.22	6.54
26 05 33 13-2704 EA 1-1/4" Replacement Cast Steel Conduit Body Cover	28.88	8.00
26 05 33 13-2705 EA 1-1/2" Replacement Cast Steel Conduit Body Cover	35.18	9.46
26 05 33 13-2706 EA 2" Replacement Cast Steel Conduit Body Cover	41.48	10.91
26 05 33 13-2707 EA 2-1/2" Replacement Cast Steel Conduit Body Cover	47.72	12.37
26 05 33 13-2708 EA 3" Replacement Cast Steel Conduit Body Cover	64.77	17.46
26 05 33 13-2709 EA 3-1/2" Replacement Cast Steel Conduit Body Cover	74.07	19.63
26 05 33 13-2710 EA 4" Replacement Cast Steel Conduit Body Cover	93.40	24.72
26 05 33 13-2711 Replacement Velbuna Composition Conduit Body Gasket <small>(26 05 33 13-2688)</small>		
26 05 33 13-2712 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket	10.89	4.37
26 05 33 13-2713 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket	12.42	5.09



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2714	EA			1" Replacement Velbuna Composition Conduit Body Gasket.....	16.26	6.54
26 05 33 13-2715	EA			1-1/4" Replacement Velbuna Composition Conduit Body Gasket	21.24	8.00
26 05 33 13-2716	EA			1-1/2" Replacement Velbuna Composition Conduit Body Gasket	24.15	9.46
26 05 33 13-2717	EA			2" Replacement Velbuna Composition Conduit Body Gasket.....	28.82	10.91
26 05 33 13-2718	EA			2-1/2" Replacement Velbuna Composition Conduit Body Gasket	38.42	12.37
26 05 33 13-2719	EA			3" Replacement Velbuna Composition Conduit Body Gasket.....	49.51	17.46
26 05 33 13-2720	EA			3-1/2" Replacement Velbuna Composition Conduit Body Gasket	54.75	19.63
26 05 33 13-2721	EA			4" Replacement Velbuna Composition Conduit Body Gasket.....	64.82	24.72
26 05 33 13-2722				Replacement Neoprene Conduit Body Gasket <small>(26 05 33 13-2688)</small>		
26 05 33 13-2723	EA			1/2" Replacement Neoprene Conduit Body Gasket	12.37	4.37
26 05 33 13-2724	EA			3/4" Replacement Neoprene Conduit Body Gasket.....	13.83	5.09
26 05 33 13-2725	EA			1" Replacement Neoprene Conduit Body Gasket	18.11	6.54
26 05 33 13-2726	EA			1-1/4" Replacement Neoprene Conduit Body Gasket.....	22.19	8.00
26 05 33 13-2727	EA			1-1/2" Replacement Neoprene Conduit Body Gasket.....	25.10	9.46
26 05 33 13-2728	EA			2" Replacement Neoprene Conduit Body Gasket.....	28.92	10.91
26 05 33 13-2729	EA			2-1/2" Replacement Neoprene Conduit Body Gasket.....	38.65	12.37
26 05 33 13-2730	EA			3" Replacement Neoprene Conduit Body Gasket.....	49.74	17.46
26 05 33 13-2731	EA			3-1/2" Replacement Neoprene Conduit Body Gasket.....	56.33	19.63
26 05 33 13-2732	EA			4" Replacement Neoprene Conduit Body Gasket.....	66.40	24.72
26 05 33 13-2733				Cutting Knockouts In-Place Metal Boxes Or Enclosures <small>(26 05 33 13-0058)</small>		
Note: For use when connecting conduit to an existing in-place system.						
26 05 33 13-2734	EA			1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	18.54	
				<i>For Work In Restricted Working Space, Add</i>	5.56	
26 05 33 13-2735	EA			3/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	20.87	
				<i>For Work In Restricted Working Space, Add</i>	6.26	
26 05 33 13-2736	EA			1", Cutting Knockouts In-Place Metal Boxes Or Enclosures	24.55	
				<i>For Work In Restricted Working Space, Add</i>	7.37	
26 05 33 13-2737	EA			1-1/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	27.25	
				<i>For Work In Restricted Working Space, Add</i>	8.18	
26 05 33 13-2738	EA			1-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	30.68	
				<i>For Work In Restricted Working Space, Add</i>	9.20	
26 05 33 13-2739	EA			2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	36.33	
				<i>For Work In Restricted Working Space, Add</i>	10.90	
26 05 33 13-2740	EA			2-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	42.96	
				<i>For Work In Restricted Working Space, Add</i>	12.89	
26 05 33 13-2741	EA			3", Cutting Knockouts In-Place Metal Boxes Or Enclosures	49.10	
				<i>For Work In Restricted Working Space, Add</i>	14.73	
26 05 33 13-2742	EA			3-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	55.23	
				<i>For Work In Restricted Working Space, Add</i>	16.57	
26 05 33 13-2743	EA			4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	61.37	
				<i>For Work In Restricted Working Space, Add</i>	18.41	
26 05 33 16				Boxes for Electrical Systems <small>(26 05 33)</small>		
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.						
26 05 33 16-0001				Steel Junction, Device, And Fixture Boxes, Rings And Covers <small>(26 05 33 16)</small>		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.						
26 05 33 16-0002				4" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0003	EA			1-1/2" Depth, 4" Square Steel Box.....	39.80	18.37
				<i>For Stud Bracket, Add</i>	0.75	
26 05 33 16-0004	EA			2-1/8" Depth, 4" Square Steel Box.....	41.19	18.37
				<i>For Stud Bracket, Add</i>	1.35	
26 05 33 16-0005	EA			3-1/2" Depth, 4" Square Steel Box.....	45.97	18.37
				<i>For Stud Bracket, Add</i>	1.47	
26 05 33 16-0006	EA			1-1/2" Depth, 4" Square Steel Extension Ring.....	31.31	12.24
26 05 33 16-0007	EA			2-1/8" Depth, 4" Square Steel Extension Ring.....	26.47	12.24
26 05 33 16-0008	EA			1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	13.70	6.12
26 05 33 16-0009	EA			5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	13.92	6.12
26 05 33 16-0010	EA			3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	14.08	6.12
26 05 33 16-0011	EA			1" Depth, 1 Gang, 4" Square Steel Mud Ring	14.60	6.12
26 05 33 16-0012	EA			1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	14.75	6.12
26 05 33 16-0013	EA			1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	16.41	6.12
26 05 33 16-0014	EA			1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	14.33	6.12
26 05 33 16-0015	EA			5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	14.49	6.12
26 05 33 16-0016	EA			3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	14.69	6.12
26 05 33 16-0017	EA			1" Depth, 2 Gang, 4" Square Steel Mud Ring	16.38	6.12
26 05 33 16-0018	EA			1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	16.73	6.12
26 05 33 16-0019	EA			1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	18.88	6.12
26 05 33 16-0020	EA			3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	15.15	6.12
26 05 33 16-0021	EA			1" Depth, Fixture Cover, 4" Square Mud Rings.....	16.52	6.12
26 05 33 16-0022	EA			One Toggle Switch, 4" Square Steel Exposed Work Cover.....	14.30	6.12
26 05 33 16-0023	EA			Two Toggle Switches, 4" Square Steel Exposed Work Cover	14.43	6.12
26 05 33 16-0024	EA			One Duplex Receptacle, 4" Square Steel Exposed Work Cover	14.27	6.12
26 05 33 16-0025	EA			Two Duplex Receptacles, 4" Square Steel Exposed Work Cover	14.64	6.12
26 05 33 16-0026	EA			One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover	14.94	6.12
26 05 33 16-0027	EA			One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover	18.74	6.12

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 16-0028	EA	One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....		14.89	6.12
26 05 33 16-0029	EA	Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....		18.74	6.12
26 05 33 16-0030	EA	One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....		14.89	6.12
26 05 33 16-0031	EA	One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....		15.78	6.12
26 05 33 16-0032	EA	One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....		18.74	6.12
26 05 33 16-0033	EA	One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....		18.74	6.12
26 05 33 16-0034	EA	Flat, 4" Square Steel Exposed Work Cover.....		13.22	6.12
26 05 33 16-0035		4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0036	EA	1-1/2" Depth, 4-11/16" Square Steel Box.....		44.95	18.37
26 05 33 16-0037	EA	2-1/8" Depth, 4-11/16" Square Steel Box.....		41.80	18.37
		<i>For Stud Bracket, Add</i>		0.71	
26 05 33 16-0038	EA	3-1/4" Depth, 4-11/16" Square Steel Box.....		57.62	18.37
26 05 33 16-0039	EA	1-1/2" Depth, 4-11/16" Square Extension Ring.....		32.62	12.24
26 05 33 16-0040	EA	2-1/8" Depth, 4-11/16" Square Extension Ring.....		33.40	12.24
26 05 33 16-0041	EA	1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		16.85	6.12
26 05 33 16-0042	EA	5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		16.89	6.12
26 05 33 16-0043	EA	3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		18.23	6.12
26 05 33 16-0044	EA	1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		17.69	6.12
26 05 33 16-0045	EA	1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		17.57	6.12
26 05 33 16-0046	EA	1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....		23.16	6.12
26 05 33 16-0047	EA	1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		17.92	6.12
26 05 33 16-0048	EA	5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		18.21	6.12
26 05 33 16-0049	EA	3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		18.23	6.12
26 05 33 16-0050	EA	1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		20.21	6.12
26 05 33 16-0051	EA	1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		20.62	6.12
26 05 33 16-0052	EA	1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....		25.41	6.12
26 05 33 16-0053	EA	1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....		17.66	6.12
26 05 33 16-0054	EA	5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....		17.80	6.12
26 05 33 16-0055	EA	One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....		21.51	6.12
26 05 33 16-0056	EA	Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....		22.55	6.12
26 05 33 16-0057	EA	One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....		21.20	6.12
26 05 33 16-0058	EA	Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....		20.07	6.12
26 05 33 16-0059	EA	One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....		23.86	6.12
26 05 33 16-0060	EA	One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....		22.54	6.12
26 05 33 16-0061	EA	One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....		22.54	6.12
26 05 33 16-0062	EA	One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....		22.54	6.12
26 05 33 16-0063	EA	Flat, 4-11/16" Square Steel Exposed Work Cover.....		14.07	6.12
26 05 33 16-0064		Steel Square Box Brackets (26 05 33 16-0001)			
26 05 33 16-0065	EA	16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....		19.82	9.20
26 05 33 16-0066	EA	Single Box Bracket, One 4" Or 4-11/16" Square Box.....		14.45	6.13
26 05 33 16-0067	EA	16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....		23.18	9.20
26 05 33 16-0068	EA	24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....		24.90	9.20
26 05 33 16-0069		4" Octagon Steel Boxes And Covers (26 05 33 16-0001)			
26 05 33 16-0070	EA	1-1/2" Depth, 4" Steel Octagon Box.....		33.12	15.31
		<i>For Stud Bracket, Add</i>		1.83	
26 05 33 16-0071	EA	2-1/8" Depth, 4" Steel Octagon Box.....		34.34	15.31
26 05 33 16-0072	EA	Flat, 4" Octagon Steel Exposed Work Cover.....		13.14	6.12
26 05 33 16-0073		4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)			
		Note: Placed in concrete slabs or walls.			
26 05 33 16-0074	EA	2" Depth, 4" Steel Octagonal Concrete Ring.....		54.49	
26 05 33 16-0075	EA	2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....		57.85	
26 05 33 16-0076	EA	3" Depth, 4" Steel Octagonal Concrete Ring.....		60.53	
26 05 33 16-0077	EA	3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....		63.13	
26 05 33 16-0078	EA	4" Depth, 4" Steel Octagonal Concrete Ring.....		68.93	
26 05 33 16-0079	EA	5" Depth, 4" Steel Octagonal Concrete Ring.....		74.95	
26 05 33 16-0080	EA	6" Depth, 4" Steel Octagonal Concrete Ring.....		79.63	
26 05 33 16-0081	EA	Flat, 4" Steel Octagonal Concrete Cover.....		14.82	6.12
26 05 33 16-0082		4-1/2" Steel Gang Boxes (26 05 33 16-0001)			
26 05 33 16-0083	EA	2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		50.38	15.31
26 05 33 16-0084	EA	3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		55.34	16.53
26 05 33 16-0085	EA	4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		66.55	18.37
26 05 33 16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		86.90	20.21
26 05 33 16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		128.98	22.04
26 05 33 16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		69.19	15.31
26 05 33 16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		75.39	16.53
26 05 33 16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		100.41	18.37
26 05 33 16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		129.00	20.21
26 05 33 16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		212.22	22.04
26 05 33 16-0093	EA	2 Device, Gang Box Mud Ring.....		22.03	6.12
26 05 33 16-0094	EA	3 Device, Gang Box Mud Ring.....		22.34	6.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	25.97	6.12
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	32.20	6.12
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	45.88	6.12
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover.....	18.91	6.12
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover.....	22.31	6.12
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover.....	26.81	6.12
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover.....	32.55	6.12
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover.....	46.84	6.12
26 05 33 16-0103 Steel Switch Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	35.47	15.31
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	35.99	15.31
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	38.71	15.31
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box.....	44.81	15.31
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box.....	45.34	15.31
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box.....	53.61	15.31
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	32.99	15.31
<i>For Stud Bracket, Add</i>	2.94	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	33.55	15.31
<i>For Stud Bracket, Add</i>	1.27	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	34.80	15.31
<i>For Stud Bracket, Add</i>	1.72	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	21.78	9.18
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	21.22	9.18
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover.....	7.35	3.06
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	7.46	3.06
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.93	3.06
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.96	3.06
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	8.04	3.06
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover.....	6.96	3.06
26 05 33 16-0122 3-1/2" Depth, 3-3/4" Steel Masonry Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0123 EA 1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box.....	49.48	21.43
26 05 33 16-0124 EA 2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box.....	55.29	22.65
26 05 33 16-0125 EA 3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box.....	63.30	24.49
26 05 33 16-0126 EA 4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box.....	72.07	26.94
26 05 33 16-0127 Cast Boxes <small>(26 05 33 16)</small>		
<i>Note: For flush or surface mount.</i>		
26 05 33 16-0128 Cast Iron Alloy Boxes <small>(26 05 33 16-0127)</small>		
<i>See CSI section 26 27 26 00-0265 for box covers.</i>		
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes <small>(26 05 33 16-0128)</small>		
<i>Note: Up to 2" deep boxes.</i>		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	105.52	36.73
<i>Note: One hub.</i>		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	113.57	42.86
<i>Note: One hub.</i>		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	133.69	52.04
<i>Note: One hub.</i>		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	131.78	48.98
<i>Note: Two hubs.</i>		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	168.60	58.16
<i>Note: Two hubs.</i>		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	131.23	48.98
<i>Note: Two hubs.</i>		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	157.84	58.16
<i>Note: Two hubs.</i>		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	134.70	48.98
<i>Note: Two hubs.</i>		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	157.89	58.16
<i>Note: Two hubs.</i>		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	131.23	48.98
<i>Note: Two hubs.</i>		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	153.62	58.16
<i>Note: Two hubs.</i>		
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box.....	156.29	61.22
<i>Note: Three hubs.</i>		
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box.....	184.94	73.47
<i>Note: Three hubs.</i>		
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box.....	162.92	61.22
<i>Note: Three hubs.</i>		
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box.....	210.25	73.47
<i>Note: Three hubs.</i>		
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box.....	167.26	61.22
<i>Note: Three hubs.</i>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0146	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	199.84	73.47
26 05 33	16-0147	EA	1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	155.72	61.22
26 05 33	16-0148	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	202.77	73.47
26 05 33	16-0149	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	198.64	73.47
26 05 33	16-0150	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	239.64	88.77
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)					
Note: >2" deep boxes.					
26 05 33	16-0152	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	110.41	36.73
26 05 33	16-0153	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	127.13	42.86
26 05 33	16-0154	EA	1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	149.34	52.04
26 05 33	16-0155	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	140.72	48.98
26 05 33	16-0156	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	162.44	58.16
26 05 33	16-0157	EA	1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	195.23	70.40
26 05 33	16-0158	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	174.62	58.16
26 05 33	16-0159	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box Note: Three hubs.	224.68	73.47
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)					
Note: Up to 2" deep boxes.					
26 05 33	16-0161	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	127.02	39.79
26 05 33	16-0162	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	140.70	45.92
26 05 33	16-0163	EA	1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	163.42	55.10
26 05 33	16-0164	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	153.85	52.04
26 05 33	16-0165	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	174.72	61.22
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)					
Note: >2" deep boxes.					
26 05 33	16-0167	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box Note: One hub.	141.69	39.79
26 05 33	16-0168	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box Note: One hub.	154.50	45.92
26 05 33	16-0169	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	175.94	52.04
26 05 33	16-0170	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	198.05	61.22
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127)					
See CSI section 26 27 26 00-0265 for box covers.					
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)					
Note: Up to 2" deep boxes.					
26 05 33	16-0173	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	93.27	30.61
26 05 33	16-0174	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	106.80	36.73
26 05 33	16-0175	EA	1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	118.63	45.92
26 05 33	16-0176	EA	1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	87.58	30.61
26 05 33	16-0177	EA	3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	110.82	36.73
26 05 33	16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	118.31	42.86
26 05 33	16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	142.14	52.04
26 05 33	16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	178.38	64.28
26 05 33	16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	128.22	42.86
26 05 33	16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	137.32	52.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	122.59	42.86
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	140.68	52.04
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	118.95	42.86
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	140.68	52.04
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	110.55	42.86
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	149.61	52.04
26 05 33 16-0189 EA 1/2" Depth, Type FSFA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	140.83	55.10
26 05 33 16-0190 EA 3/4" Depth, Type FSFA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	171.11	67.34
26 05 33 16-0191 EA 1/2" Depth, Type FSFC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	149.54	55.10
26 05 33 16-0192 EA 3/4" Depth, Type FSFC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	201.27	67.34
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	148.81	55.10
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	182.59	67.34
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	185.17	67.34
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	181.45	67.34
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	221.48	82.65
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	103.37	30.61
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	123.84	36.73
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	142.06	45.92
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	133.06	36.73
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	131.37	42.86
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	158.17	52.04
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	176.87	64.28
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	160.31	52.04
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	196.05	67.34
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	123.63	33.67
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	141.58	39.79
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	151.98	48.98
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	154.50	45.92
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	157.51	55.10
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	194.58	67.34
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	123.52	33.67
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	142.95	39.79
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	157.65	45.92
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	178.63	55.10
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	157.65	45.92
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	178.63	55.10

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 16-0222		Shallow, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small>		
		Note: Up to 2" deep boxes.		
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box.....	165.46	48.98
		Note: Two hubs.		
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box.....	185.62	58.16
		Note: Two hubs.		
26 05 33 16-0225		Deep, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small>		
		Note: >2" deep boxes.		
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box.....	188.75	42.86
		Note: One hub.		
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box.....	210.36	52.04
		Note: One hub.		
26 05 33 16-0228		Cast Aluminum Explosion Proof Outlet Bodies <small>(26 05 33 16-0127)</small>		
		Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	195.26	48.98
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	242.12	55.10
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	221.27	61.22
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	216.38	55.10
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	263.93	61.22
26 05 33 16-0234		Non-Metallic (PVC) Boxes <small>(26 05 33 16)</small>		
		See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0235		Shallow, Single Gang Non-Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box.....	62.70	25.71
		Note: One hub.		
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box.....	71.63	30.00
		Note: One hub.		
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box.....	81.52	36.43
		Note: One hub.		
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box.....	80.20	34.28
		Note: Two hubs.		
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box.....	94.21	40.71
		Note: Two hubs.		
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box.....	114.25	49.28
		Note: Two hubs.		
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box.....	80.49	34.28
		Note: Two hubs.		
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box.....	93.41	40.71
		Note: Two hubs.		
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box.....	111.53	49.28
		Note: Two hubs.		
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box.....	101.66	42.86
		Note: Three hubs.		
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box.....	115.65	51.43
		Note: Three hubs.		
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box.....	136.14	62.14
		Note: Three hubs.		
26 05 33 16-0248		Deep, Single Gang Non-Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box.....	63.58	25.71
		Note: No hubs.		
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box.....	62.04	25.71
		Note: One hub.		
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box.....	73.71	30.00
		Note: One hub.		
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box.....	82.38	36.43
		Note: One hub.		
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box.....	81.92	34.28
		Note: Two hubs.		
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box.....	91.95	40.71
		Note: Two hubs.		
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box.....	109.85	49.28
		Note: Two hubs.		
26 05 33 16-0256		Shallow, Two Gang Non-Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box.....	67.44	27.85
		Note: One hub.		
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box.....	77.24	32.15
		Note: One hub.		
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box.....	85.96	38.57
		Note: One hub.		
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box.....	82.57	36.43
		Note: Two hubs.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	102.24	42.86
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	120.93	51.43
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	84.61	36.43
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	107.89	42.86
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	116.39	51.43
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	103.41	45.00
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	136.44	53.57
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	140.29	64.28
26 05 33 16-0269 Poke Thru Units <small>(26 05 33 16)</small>		
26 05 33 16-0270 Surface Poke Thru Units <small>(26 05 33 16-0269)</small> Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271 EA Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	507.71	45.92
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic cover. Wiremold RC3KTCAL.	324.51	
26 05 33 16-0273 EA 20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	46.28	12.24
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC3APTCBK.	54.58	6.12
26 05 33 16-0275 EA Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	573.77	48.98
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non- metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	304.14	
26 05 33 16-0277 EA Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	78.91	18.37
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4APTCBK.	54.58	6.12
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold ABPLUG4.	158.22	12.24
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	454.66	42.86
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	38.22	6.12
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	452.59	42.86
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	52.79	6.12
26 05 33 16-0284 Recessed Poke Thru Units <small>(26 05 33 16-0269)</small> Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small> Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	807.04	48.98
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	807.14	48.98
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	769.63	48.98
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT) Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	769.63	48.98
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	807.04	48.98

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	807.04	48.98
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	737.97	48.98
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	465.58	45.92
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	498.67	45.92
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCPC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	501.94	45.92
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	144.47	24.49
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	323.84	12.24
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	323.84	12.24
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	269.60	12.24
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	39.25	3.06
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	20.11	6.12
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	23.05	6.12
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	20.02	6.12
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	20.08	6.12
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	19.95	6.12
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	23.36	6.12
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	23.12	6.12
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	23.65	6.12
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	19.67	6.12
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	19.68	6.12
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	19.43	6.12
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	19.43	6.12
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	45.77	9.18
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)..... Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	17.88	6.12
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	18.30	6.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25) Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	140.55	11.02
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A) Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	22.85	6.12
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA) Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	23.76	6.12
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH) Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	24.41	6.12
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA) Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	38.04	12.24
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA) Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	43.82	15.31
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA) Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	48.03	15.31
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA) Note: One-gang 1 1/4" trade size conduit housing assembly.	36.62	12.24
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA) Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	23.61	6.12
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH) Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	23.61	6.12
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA) Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	24.82	6.12
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA) Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	25.64	6.12
26 05 33 16-0328 Evolution 8AT Poke Thru Units <small>(26 05 33 16-0284)</small> Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,055.85	48.98
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,005.37	48.98
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,067.27	48.98
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	995.87	48.98
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	986.86	48.98
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	599.14	45.92
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	670.25	45.92
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS) Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	172.22	24.49
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	350.03	12.24
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	350.03	12.24
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS) Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	60.83	3.06
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B) Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	20.74	6.12

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0341	EA	Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	20.85	6.12
26 05 33	16-0342	EA	Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCI's, 106 adapters or AV devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	20.98	6.12
26 05 33	16-0343	EA	Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	24.13	6.12
26 05 33	16-0344	EA	Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	28.99	6.12
26 05 33	16-0345	EA	Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	28.94	6.12
26 05 33	16-0346	EA	Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	20.15	6.12
26 05 33	16-0347	EA	Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	20.39	6.12
26 05 33	16-0348	EA	Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	20.15	6.12
26 05 33	16-0349	EA	Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	20.15	6.12
26 05 33	16-0350	EA	Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	28.55	6.12
26 05 33	16-0351	EA	Device Mounting Plate (Wiremold 8AAP)..... Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	23.99	6.12
26 05 33	16-0352	EA	8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	27.48	6.12
26 05 33	16-0353	EA	Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	38.04	12.24

26 05 43 Underground Ducts and Raceways for Electrical Systems ^(26 05)

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench ^(26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench ^(26 05 43 00-0001)

26 05 43 00-0003	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	89.48
26 05 43 00-0004	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	85.57
26 05 43 00-0005	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	124.28
26 05 43 00-0006	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	118.84
26 05 43 00-0007	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench	60.49
26 05 43 00-0008	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench	71.64
26 05 43 00-0009	LF	Lid, Concrete, 10" Wide Pedestrian Trench	59.65

26 05 43 00-0010 20" Wide Pedestrian Trench ^(26 05 43 00-0001)

26 05 43 00-0011	LF	Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	113.41
26 05 43 00-0012	LF	Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	106.49
26 05 43 00-0013	LF	Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	153.62
26 05 43 00-0014	LF	Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	147.31
26 05 43 00-0015	EA	End Wall, 20" Wide x 15" Deep Pedestrian Trench	75.65
26 05 43 00-0016	EA	End Wall, 20" Wide x 24" Deep Pedestrian Trench	110.24
26 05 43 00-0017	LF	Lid, Concrete, 20" Wide Pedestrian Trench	74.60

26 05 43 00-0018 30" Wide Pedestrian Trench ^(26 05 43 00-0001)

26 05 43 00-0019	LF	Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	144.78
26 05 43 00-0020	LF	Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	170.15
26 05 43 00-0021	LF	Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	181.17
26 05 43 00-0022	LF	Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	173.99
26 05 43 00-0023	EA	End Wall, 30" Wide x 15" Deep Pedestrian Trench	108.55
26 05 43 00-0024	EA	End Wall, 30" Wide x 24" Deep Pedestrian Trench	147.29
26 05 43 00-0025	LF	Lid, Concrete, 30" Wide Pedestrian Trench	93.14

26 05 43 00-0026 40" Wide Pedestrian Trench ^(26 05 43 00-0001)

26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	173.43
26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	166.89
26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	212.22
26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	204.23
26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench	138.94
26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench	188.31
26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench	110.07



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0034		Precast Concrete Trenches, One Piece Medium Vehicle Trench <small>(26 05 43)</small>		
		<small>Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
26 05 43 00-0035		10" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0036	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	108.70	
26 05 43 00-0037	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	103.62	
26 05 43 00-0038	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	150.94	
26 05 43 00-0039	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	143.92	
26 05 43 00-0040	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench.....	71.17	
26 05 43 00-0041	EA	End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	82.84	
26 05 43 00-0042	LF	Lid, Concrete 10" Wide Medium Vehicle Trench.....	72.46	
26 05 43 00-0043	LF	Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	322.71	
26 05 43 00-0044		20" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0045	LF	Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	136.86	
26 05 43 00-0046	LF	Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	127.94	
26 05 43 00-0056	LF	Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	184.55	
26 05 43 00-0048	LF	Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	176.40	
26 05 43 00-0049	EA	End Wall, 20" Wide x 15" Deep Medium Vehicle Trench.....	88.01	
26 05 43 00-0050	EA	End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	128.42	
26 05 43 00-0051	LF	Lid, Concrete 20" Wide Medium Vehicle Trench.....	90.62	
26 05 43 00-0052	LF	Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	427.98	
26 05 43 00-0053		30" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0054	LF	Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	137.66	
26 05 43 00-0055	LF	Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	165.20	
26 05 43 00-0056	LF	Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	216.37	
26 05 43 00-0057	LF	Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	207.08	
26 05 43 00-0058	EA	End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	125.60	
26 05 43 00-0059	EA	End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	172.53	
26 05 43 00-0060	LF	Lid, Concrete 30" Wide Medium Vehicle Trench.....	113.42	
26 05 43 00-0061	LF	Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	534.28	
26 05 43 00-0062		40" Wide Medium Vehicle Trench <small>(26 05 43 00-0034)</small>		
26 05 43 00-0063	LF	Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	205.42	
26 05 43 00-0064	LF	Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	196.98	
26 05 43 00-0065	LF	Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	251.46	
26 05 43 00-0066	LF	Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	241.11	
26 05 43 00-0067	EA	End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	160.78	
26 05 43 00-0068	EA	End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	220.53	
26 05 43 00-0069	LF	Lid, Concrete 40" Wide Medium Vehicle Trench.....	133.52	
26 05 43 00-0070	LF	Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	726.41	
26 05 43 00-0071		Precast Concrete Trenches, One Piece H20 Road Crossing Trench <small>(26 05 43)</small>		
		<small>Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
26 05 43 00-0072		10" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0073	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	235.39	
26 05 43 00-0074	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	224.00	
26 05 43 00-0075	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	294.03	
26 05 43 00-0076	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	279.67	
26 05 43 00-0077	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	226.01	
26 05 43 00-0078	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	215.17	
26 05 43 00-0079	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	284.65	
26 05 43 00-0080	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	270.87	
26 05 43 00-0081	EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	155.61	
26 05 43 00-0082	EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	210.63	
26 05 43 00-0083	EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	140.73	
26 05 43 00-0084	EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	195.42	
26 05 43 00-0085	LF	Lid, Concrete 10" Wide Road Crossing Trench.....	108.60	
26 05 43 00-0086	LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	350.21	
26 05 43 00-0087		20" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0088	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	249.48	
26 05 43 00-0089	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	237.80	
26 05 43 00-0090	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	330.01	
26 05 43 00-0091	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	314.38	
26 05 43 00-0092	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	249.48	
26 05 43 00-0093	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	237.80	
26 05 43 00-0094	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	320.63	
26 05 43 00-0095	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	305.58	
26 05 43 00-0096	EA	End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	222.28	
26 05 43 00-0097	EA	End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	302.48	
26 05 43 00-0098	EA	End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	200.60	
26 05 43 00-0099	EA	End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	280.80	

26 Electrical

26 05 Common Work Results for Electrical

26 05 43 Underground Ducts and Raceways for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 43 00-0100	LF		Lid, Concrete 20" Wide Road Crossing Trench	121.10	
26 05 43 00-0101	LF		Lid, Galvanized Steel 20" Wide Road Crossing Trench	519.54	

26 05 43 00-0102 30" Wide H2O Road Crossing Trench (26 05 43 00-0071)

26 05 43 00-0103	LF		Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	294.51	
26 05 43 00-0104	LF		Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	281.15	
26 05 43 00-0105	LF		Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	364.15	
26 05 43 00-0106	LF		Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	347.56	
26 05 43 00-0107	LF		Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	285.13	
26 05 43 00-0108	LF		Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	272.32	
26 05 43 00-0109	LF		Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	354.77	
26 05 43 00-0110	LF		Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	338.43	
26 05 43 00-0111	EA		End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	296.42	
26 05 43 00-0112	EA		End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	392.53	
26 05 43 00-0113	EA		End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	267.95	
26 05 43 00-0114	EA		End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	364.06	
26 05 43 00-0115	LF		Lid, Concrete 30" Wide Road Crossing Trench	153.28	
26 05 43 00-0116	LF		Lid, Galvanized Steel 30" Wide Road Crossing Trench	651.49	

26 05 43 00-0117 40" Wide H2O Road Crossing Trench (26 05 43 00-0071)

26 05 43 00-0118	LF		Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	325.06	
26 05 43 00-0119	LF		Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	310.70	
26 05 43 00-0120	LF		Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	400.19	
26 05 43 00-0121	LF		Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	382.17	
26 05 43 00-0122	LF		Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	315.68	
26 05 43 00-0123	LF		Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	301.90	
26 05 43 00-0124	LF		Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	390.81	
26 05 43 00-0125	LF		Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	373.34	
26 05 43 00-0126	EA		End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	367.83	
26 05 43 00-0127	EA		End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	486.80	
26 05 43 00-0128	EA		End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	332.89	
26 05 43 00-0129	EA		End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	451.86	
26 05 43 00-0130	LF		Lid, Concrete 40" Wide Road Crossing Trench	185.13	
26 05 43 00-0131	LF		Lid, Galvanized Steel 40" Wide Road Crossing Trench	885.91	

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003	EA		25' Treated Wood Pole, Class 3, Machine Dig And Set	998.35	323.21
			<i>For Class 1 Pole, Add</i>	123.13	
			<i>For Class 2 Pole, Add</i>	70.36	
			<i>For Class 4 Pole, Deduct</i>	-35.18	
			<i>For Class 5 Pole, Deduct</i>	-105.54	
			<i>For Class 6 Pole, Deduct</i>	-140.72	
26 05 46 00-0004	EA		30' Treated Wood Pole, Class 3, Machine Dig And Set	1,194.92	358.61
			<i>For Class 1 Pole, Add</i>	167.18	
			<i>For Class 2 Pole, Add</i>	95.53	
			<i>For Class 4 Pole, Deduct</i>	-47.77	
			<i>For Class 5 Pole, Deduct</i>	-143.30	
			<i>For Class 6 Pole, Deduct</i>	-191.06	
26 05 46 00-0005	EA		35' Treated Wood Pole, Class 3, Machine Dig And Set	1,549.09	474.29
			<i>For Class 1 Pole, Add</i>	210.23	
			<i>For Class 2 Pole, Add</i>	120.13	
			<i>For Class 4 Pole, Deduct</i>	-60.07	
			<i>For Class 5 Pole, Deduct</i>	-180.20	
			<i>For Class 6 Pole, Deduct</i>	-240.26	
26 05 46 00-0006	EA		40' Treated Wood Pole, Class 3, Machine Dig And Set	1,772.64	521.66
			<i>For Class 1 Pole, Add</i>	255.28	
			<i>For Class 2 Pole, Add</i>	145.87	
			<i>For Class 4 Pole, Deduct</i>	-72.94	
			<i>For Class 5 Pole, Deduct</i>	-218.81	
			<i>For Class 6 Pole, Deduct</i>	-291.74	
26 05 46 00-0007	EA		45' Treated Wood Pole, Class 3, Machine Dig And Set	2,025.93	581.02
			<i>For Class 1 Pole, Add</i>	302.33	
			<i>For Class 2 Pole, Add</i>	172.76	
			<i>For Class 4 Pole, Deduct</i>	-86.38	
			<i>For Class 5 Pole, Deduct</i>	-259.14	
			<i>For Class 6 Pole, Deduct</i>	-345.52	
26 05 46 00-0008	EA		50' Treated Wood Pole, Class 3, Machine Dig And Set	2,305.18	652.07
			<i>For Class 1 Pole, Add</i>	350.38	
			<i>For Class 2 Pole, Add</i>	200.22	
			<i>For Class 4 Pole, Deduct</i>	-100.11	
			<i>For Class 5 Pole, Deduct</i>	-300.32	
			<i>For Class 6 Pole, Deduct</i>	-400.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,578.60	717.21
For Class 1 Pole, Add	400.43	
For Class 2 Pole, Add	228.82	
For Class 4 Pole, Deduct	-114.41	
For Class 5 Pole, Deduct	-343.23	
For Class 6 Pole, Deduct	-457.64	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,881.73	788.68
For Class 1 Pole, Add	456.49	
For Class 2 Pole, Add	260.65	
For Class 4 Pole, Deduct	-130.43	
For Class 5 Pole, Deduct	-391.28	
For Class 6 Pole, Deduct	-521.70	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,724.51	859.61
For Class 1 Pole, Add	1,051.83	
For Class 2 Pole, Add	601.05	
For Class 4 Pole, Deduct	-300.52	
For Class 5 Pole, Deduct	-901.57	
For Class 6 Pole, Deduct	-1,202.10	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,188.62	914.42
For Class 1 Pole, Add	1,175.91	
For Class 2 Pole, Add	671.95	
For Class 4 Pole, Deduct	-335.98	
For Class 5 Pole, Deduct	-1,007.93	
For Class 6 Pole, Deduct	-1,343.90	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,703.89	976.67
For Class 1 Pole, Add	1,312.68	
For Class 2 Pole, Add	750.10	
For Class 4 Pole, Deduct	-375.05	
For Class 5 Pole, Deduct	-1,125.15	
For Class 6 Pole, Deduct	-1,500.20	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	27.54	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	236.36	96.40
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	285.68	96.40
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	299.91	123.94
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	608.61	268.54
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	648.08	268.54
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	674.63	268.54
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	267.65	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 1 1/16" Diameter Hole, Minimum Ultimate Load 1,200 LB.....	337.90	57.84
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	351.67	61.97
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB.....	421.13	74.36
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor.....	676.00	95.02
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor.....	801.08	115.68
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	117.57	16.53
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket.....	587.82	82.63
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	462.86	137.71
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	138.99	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	113.69	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	330.18	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	222.33	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 46 00-0044		Epoxy Construction Units, Grounding Mounting <small>(26 05 46 00-0038)</small>			
		Note: Includes hardware.			
26 05 46 00-0045	EA	1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	99.13		
26 05 46 00-0046	EA	1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	87.13		
26 05 46 00-0047	EA	Deadend Arms, Grounding Mounting.....	303.62		
26 05 46 00-0048		Guying <small>(26 05 46)</small>			
		Note: Includes cable, anchor and rod assembly, guy marker.			
26 05 46 00-0049		Down Guy <small>(26 05 46 00-0048)</small>			
26 05 46 00-0050	EA	Down Guy For 25' To 40' Pole.....	1,000.81	385.59	
26 05 46 00-0051	EA	Down Guy For 45' To 60' Pole.....	1,022.34	385.59	
26 05 46 00-0052	EA	Down Guy For 65' To 75' Pole.....	1,066.61	385.59	
26 05 46 00-0053	EA	Guy Guard, Plastic.....	46.96		
26 05 46 00-0054		Head Guy, 50' Spans <small>(26 05 46 00-0048)</small>			
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole.....	1,419.35	592.16	
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole.....	1,419.35	592.16	
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole.....	1,419.35	592.16	
26 05 46 00-0058		Guy Strain Insulators Additional Insulators <small>(26 05 46 00-0048)</small>			
		Note: As required at same material cost and labor.			
26 05 46 00-0059	EA	Guy Strain Insulator.....	587.37	289.20	
26 05 46 00-0060		Insulators <small>(26 05 46)</small>			
26 05 46 00-0061		Pin Insulator With Pin <small>(26 05 46 00-0060)</small>			
26 05 46 00-0062	EA	5 KV Class 55-3, Pin Insulator With Pin.....	184.77	82.63	
26 05 46 00-0063	EA	15 KV Class 55-5, Pin Insulator With Pin.....	190.06	82.63	
26 05 46 00-0064		Suspension Insulator <small>(26 05 46 00-0060)</small>			
		Note: Includes clevis and strain clamp.			
26 05 46 00-0065	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	234.56	110.18	
26 05 46 00-0066	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	248.94	110.18	
26 05 46 00-0067	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	349.12	137.71	
26 05 46 00-0068	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	552.87	220.34	
26 05 46 00-0069		Spool Insulator With Clevis <small>(26 05 46 00-0060)</small>			
26 05 46 00-0070	EA	5 KV Class 53-5, Spool Insulator With Clevis.....	78.10	34.43	
26 05 46 00-0071	EA	15 KV Class, Spool Insulator With Clevis.....	250.34	123.94	
26 05 46 00-0072	EA	25 KV Class, Spool Insulator With Clevis.....	324.68	123.94	
26 05 46 00-0073		Secondary Rack <small>(26 05 46 00-0060)</small>			
26 05 46 00-0074	EA	1 Spool Secondary Rack.....	155.16	68.86	
26 05 46 00-0075	EA	2 Spool Secondary Rack.....	159.80	87.86	
26 05 46 00-0076	EA	3 Spool Secondary Rack.....	239.29	117.05	
26 05 46 00-0077	EA	4 Spool Secondary Rack.....	268.95	117.05	
26 05 46 00-0078		Outdoor Load Break Switches <small>(26 05 46)</small>			
		Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.			
26 05 46 00-0079		7.2 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>			
26 05 46 00-0080	EA	600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	4,892.40	468.23	
26 05 46 00-0081	EA	1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	9,599.07	468.23	
26 05 46 00-0082	EA	1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	14,298.32	791.86	
26 05 46 00-0083	EA	2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	14,583.08	791.86	
26 05 46 00-0084		14.4 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>			
26 05 46 00-0085	EA	600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	5,981.37	468.23	
26 05 46 00-0086	EA	1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	11,346.74	468.23	
26 05 46 00-0087	EA	1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	14,298.32	791.86	
26 05 46 00-0088	EA	2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	14,583.08	791.86	
26 05 46 00-0089		23 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>			
26 05 46 00-0090	EA	600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	6,594.66	543.97	
26 05 46 00-0091	EA	1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	12,415.19	543.97	
26 05 46 00-0092	EA	1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	14,936.91	936.45	
26 05 46 00-0093	EA	2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator.....	15,231.00	936.45	



	MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0094		Square Distribution Poles (26 05 46)		
26 05 46 00-0095		Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096	EA	20', Steel Taped Shaft Distribution Pole	4,208.24	585.29
26 05 46 00-0097	EA	25', Steel Taped Shaft Distribution Pole	4,703.61	619.71
26 05 46 00-0098	EA	30', Steel Taped Shaft Distribution Pole	5,095.33	688.57
26 05 46 00-0099	EA	35', Steel Taped Shaft Distribution Pole	5,640.93	757.43
26 05 46 00-0100	EA	40', Steel Taped Shaft Distribution Pole	7,751.48	826.28
26 05 46 00-0101		Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102	EA	30', Prestressed Concrete Square Pole For Distribution.....	5,052.16	1,031.96
26 05 46 00-0103	EA	35', Prestressed Concrete Square Pole For Distribution.....	5,703.34	1,131.83
26 05 46 00-0104	EA	40', Prestressed Concrete Square Pole For Distribution.....	6,689.50	1,264.98
26 05 46 00-0105	EA	45', Prestressed Concrete Square Pole For Distribution.....	7,536.86	1,398.13
26 05 46 00-0106	EA	50', Prestressed Concrete Square Pole For Distribution.....	8,589.13	1,697.74
26 05 46 00-0107	EA	55', Prestressed Concrete Square Pole For Distribution.....	10,629.17	1,997.34
26 05 46 00-0108	EA	60', Prestressed Concrete Square Pole For Distribution.....	12,537.25	2,263.66
26 05 46 00-0109	EA	65', Prestressed Concrete Square Pole For Distribution.....	15,135.49	2,796.28
26 05 46 00-0110	EA	70', Prestressed Concrete Square Pole For Distribution.....	16,951.43	3,062.59
26 05 46 00-0111		Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112		Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113	EA	20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,924.22	516.43
26 05 46 00-0114	EA	25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	5,532.87	550.86
26 05 46 00-0115	EA	30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	6,368.68	619.71
26 05 46 00-0116	EA	35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	7,575.01	688.57
26 05 46 00-0117	EA	40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	11,589.00	757.43
26 05 46 00-0118		Steel Service Poles Distribution (26 05 46)		
		Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119		Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120	EA	40', Galvanized Steel Tapered Round Pole For Distribution.....	5,424.22	826.28
26 05 46 00-0121	EA	45', Galvanized Steel Tapered Round Pole For Distribution.....	6,323.65	895.14
26 05 46 00-0122	EA	50', Galvanized Steel Tapered Round Pole For Distribution.....	6,734.43	964.00
26 05 46 00-0123	EA	55', Galvanized Steel Tapered Round Pole For Distribution.....	7,940.70	1,101.71
26 05 46 00-0124	EA	60', Galvanized Steel Tapered Round Pole For Distribution.....	9,857.82	1,239.43
26 05 46 00-0125	EA	65', Galvanized Steel Tapered Round Pole For Distribution.....	11,594.03	1,564.58
26 05 46 00-0126	EA	70', Galvanized Steel Tapered Round Pole For Distribution.....	12,894.41	1,774.97
26 05 46 00-0127	EA	75', Galvanized Steel Tapered Round Pole For Distribution.....	14,244.57	1,997.34
26 05 46 00-0128	EA	80', Galvanized Steel Tapered Round Pole For Distribution.....	15,968.71	2,263.66
26 05 46 00-0129	EA	85', Galvanized Steel Tapered Round Pole For Distribution.....	17,069.56	2,396.81
26 05 46 00-0130	EA	90', Galvanized Steel Tapered Round Pole For Distribution.....	18,498.77	2,663.12
26 05 46 00-0131	EA	95', Galvanized Steel Tapered Round Pole For Distribution.....	20,355.19	2,996.01
26 05 46 00-0132	EA	100', Galvanized Steel Tapered Round Pole For Distribution.....	22,424.10	3,395.47
26 05 46 00-0133		12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134	EA	40', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,467.50	826.28
26 05 46 00-0135	EA	45', Galvanized Steel Tapered 12 Sided Pole For Distribution	10,454.53	895.14
26 05 46 00-0136	EA	50', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,586.58	964.00
26 05 46 00-0137	EA	55', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,716.26	1,101.71
26 05 46 00-0138	EA	60', Galvanized Steel Tapered 12 Sided Pole For Distribution	16,972.02	1,239.43
26 05 46 00-0139	EA	65', Galvanized Steel Tapered 12 Sided Pole For Distribution	18,751.99	1,564.58
26 05 46 00-0140	EA	70', Galvanized Steel Tapered 12 Sided Pole For Distribution	21,735.25	1,774.97
26 05 46 00-0141	EA	75', Galvanized Steel Tapered 12 Sided Pole For Distribution	23,364.08	1,997.34
26 05 46 00-0142	EA	80', Galvanized Steel Tapered 12 Sided Pole For Distribution	25,076.76	2,263.66
26 05 46 00-0143	EA	85', Galvanized Steel Tapered 12 Sided Pole For Distribution	26,566.16	2,396.81
26 05 46 00-0144	EA	90', Galvanized Steel Tapered 12 Sided Pole For Distribution	30,175.46	2,663.12
26 05 46 00-0145	EA	95', Galvanized Steel Tapered 12 Sided Pole For Distribution	31,999.16	2,996.01
26 05 46 00-0146	EA	100', Galvanized Steel Tapered 12 Sided Pole For Distribution	34,144.51	3,395.47
26 05 46 00-0147	EA	105', Galvanized Steel Tapered 12 Sided Pole For Distribution	36,447.05	3,794.94
26 05 46 00-0148		Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149	EA	Ladder Clips.....	23.16	
26 05 46 00-0150	EA	Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	173.76	
26 05 46 00-0151	EA	Ground Sleeve-2' At Ground Line.....	174.77	
26 05 46 00-0152		Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153	EA	4' Arm With Baseplate And Endplate.....	901.63	137.71
26 05 46 00-0154	EA	5' Arm With Baseplate And Endplate.....	986.54	137.71
26 05 46 00-0155	EA	6' Arm With Baseplate And Endplate.....	1,210.24	206.57
26 05 46 00-0156	EA	7' Arm With Baseplate And Endplate.....	1,284.51	206.57
26 05 46 00-0157	EA	8' Arm With Baseplate And Endplate.....	1,506.11	275.43

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 46 00-0158	EA	9' Arm With Baseplate And Endplate	1,590.97	275.43
	26 05 46 00-0159	EA	10' Arm With Baseplate And Endplate	2,121.44	344.29
	26 05 46 00-0160	EA	11' Arm With Baseplate And Endplate	2,216.71	344.29
26 05 46 00-0161			Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		
	26 05 46 00-0162	EA	15,000 LB Standard Vangs Load Bearing At Any Angle	345.46	137.71
	26 05 46 00-0163	EA	30,000 LB Standard Vangs Load Bearing At Any Angle	397.47	137.71
	26 05 46 00-0164	EA	45,000 LB Standard Vangs Load Bearing At Any Angle	468.61	137.71
26 05 46 00-0165			Armless Construction Brackets (26 05 46 00-0118)		
26 05 46 00-0166			Verticals Insulator And Equipment Bracket (26 05 46 00-0165)		
	26 05 46 00-0167	EA	7" 1 Position Vertical Insulation And Equipment Bracket	353.93	137.71
	26 05 46 00-0168	EA	12" 1 Position Vertical Insulation And Equipment Bracket	386.78	137.71
	26 05 46 00-0169	EA	12" 3 Position Vertical Insulation And Equipment Bracket	440.14	137.71
	26 05 46 00-0170	EA	18" 1 Position Vertical Insulation And Equipment Bracket	612.45	206.57
	26 05 46 00-0171	EA	18" 3 Position Vertical Insulation And Equipment Bracket	643.61	206.57
26 05 46 00-0172			Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)		
	26 05 46 00-0173	EA	Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	328.36	137.71
	26 05 46 00-0174	EA	Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	397.38	137.71
	26 05 46 00-0175	EA	Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	579.03	206.57
	26 05 46 00-0176	EA	Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	741.91	206.57
	26 05 46 00-0177	EA	Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	947.81	275.43
	26 05 46 00-0178	EA	Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	1,034.26	275.43
26 05 46 00-0179			Pole Top Bracket And Pins (26 05 46 00-0165)		
	26 05 46 00-0180	EA	Pole Top Pin - 5"	338.38	137.71
	26 05 46 00-0181	EA	Pole Top Bracket - 5"	355.14	137.71
26 05 46 00-0182			Angle Pins (26 05 46 00-0165)		
	26 05 46 00-0183	EA	Angle Pin - 25 Degree, 6"	336.11	137.71
	26 05 46 00-0184	EA	Angle Pin - 25 Degree, 7 1/4"	390.54	137.71
26 05 46 00-0185			Static And Neutral Wire Brackets (26 05 46 00-0165)		
	26 05 46 00-0186	EA	Neutral Wire Extension Bracket	348.25	137.71
	26 05 46 00-0187	EA	Static Wire Support Bracket	353.47	137.71
26 05 46 00-0188			Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)		
	26 05 46 00-0189	EA	Cutout And Arrestor, With Mounting Bracket	309.90	137.71
	26 05 46 00-0190	EA	Equipment Mounting T Bracket	332.46	137.71
	26 05 46 00-0191	EA	15 KV Cutout	435.71	
	26 05 46 00-0192	EA	9/10 KV Arrestor	403.98	137.71
26 05 46 00-0193			Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		
	26 05 46 00-0194	EA	Parallel Cable Spacer	385.72	137.71
	26 05 46 00-0195	EA	Conduit Standoff Support Bracket	369.06	137.71
	26 05 46 00-0196	EA	Three Transformer Pole Mounted Cluster Bracket	946.88	137.71
26 05 46 00-0197			15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
			Note: Includes pole mounting bracket.		
	26 05 46 00-0198	EA	15 KV, 1 Phase, Solenoid Switch With Pole Bracket	2,086.75	344.29
26 05 46 00-0199			Octagonal Tapered (26 05 46 00-0118)		
	26 05 46 00-0200	EA	40', Galvanized Steel Tapered Octagonal Pole For Distribution	9,768.02	826.28
	26 05 46 00-0201	EA	45', Galvanized Steel Tapered Octagonal Pole For Distribution	10,787.84	895.14
	26 05 46 00-0202	EA	50', Galvanized Steel Tapered Octagonal Pole For Distribution	11,958.14	964.00
	26 05 46 00-0203	EA	55', Galvanized Steel Tapered Octagonal Pole For Distribution	13,120.60	1,170.57
	26 05 46 00-0204	EA	60', Galvanized Steel Tapered Octagonal Pole For Distribution	17,529.36	1,239.43
	26 05 46 00-0205	EA	65', Galvanized Steel Tapered Octagonal Pole For Distribution	19,353.04	1,564.58
	26 05 46 00-0206	EA	70', Galvanized Steel Tapered Octagonal Pole For Distribution	22,434.65	1,664.45
	26 05 46 00-0207	EA	75', Galvanized Steel Tapered Octagonal Pole For Distribution	24,109.92	1,997.34
	26 05 46 00-0208	EA	80', Galvanized Steel Tapered Octagonal Pole For Distribution	25,866.30	2,130.49
	26 05 46 00-0209	EA	85', Galvanized Steel Tapered Octagonal Pole For Distribution	27,402.17	2,396.81
	26 05 46 00-0210	EA	90', Galvanized Steel Tapered Octagonal Pole For Distribution	31,128.94	2,529.96
	26 05 46 00-0211	EA	95', Galvanized Steel Tapered Octagonal Pole For Distribution	33,001.82	2,996.01
	26 05 46 00-0212	EA	100', Galvanized Steel Tapered Octagonal Pole For Distribution	35,196.35	3,195.74
	26 05 46 00-0213	EA	105', Galvanized Steel Tapered Octagonal Pole For Distribution	37,553.53	3,595.21



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0214				Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215	LF			Removal And Relocation Of Steel Service Poles With Arms Up To 60'	48.20	
26 05 46 00-0216				Special Steel Bases For Poles (26 05 46 00-0118)		
26 05 46 00-0217	EA			Spin-In Steel Base For Poles	310.13	
26 05 46 00-0218	EA			Series 3, 25' Pole And less	346.50	68.86
26 05 46 00-0219	EA			Series 4, 40' Pole And less	413.56	79.18
26 05 46 00-0220	EA			Series 5, 50' Pole And less	473.73	86.07
26 05 53 Identification for Electrical Systems (26 05)						
26 05 53 00-0001				Conduit Markers Pressure-Sensitive (26 05 53)		
Note: Stick-on, includes arrow tape.						
26 05 53 00-0002	EA			1/2" Outside Diameter Pressure Sensitive Marker Stick-on	13.82	
26 05 53 00-0003	EA			3/4" Outside Diameter Pressure Sensitive Marker Stick-on	14.43	
26 05 53 00-0004	EA			1" Outside Diameter Pressure Sensitive Marker Stick-on	15.67	
26 05 53 00-0005	EA			1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	15.91	
26 05 53 00-0006	EA			1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	16.15	
26 05 53 00-0007	EA			2" Outside Diameter Pressure Sensitive Marker Stick-on	16.52	
26 05 53 00-0008	EA			2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	19.41	
26 05 53 00-0009	EA			3" Outside Diameter Pressure Sensitive Marker Stick-on	19.90	
26 05 53 00-0010	EA			3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	20.26	
26 05 53 00-0011	EA			4" Outside Diameter Pressure Sensitive Marker Stick-on	20.64	
26 05 53 00-0012	EA			4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	21.41	
26 05 53 00-0013	EA			5" Outside Diameter Pressure Sensitive Marker Stick-on	22.23	
26 05 53 00-0014	EA			6" Outside Diameter Pressure Sensitive Marker Stick-on	22.96	
26 05 53 00-0015	EA			7" Outside Diameter Pressure Sensitive Marker Stick-on	23.67	
26 05 53 00-0016	EA			8" Outside Diameter Pressure Sensitive Marker Stick-on	26.01	
26 05 53 00-0017	EA			10" Outside Diameter Pressure Sensitive Marker Stick-on	27.36	
26 05 53 00-0018				Labeling Existing Electrical Wires (26 05 53)		
Note: Self-adhesive vinyl coated white cloth						
26 05 53 00-0019	EA			Labeling Existing Wire	3.78	
26 05 53 00-0020				Equipment Labeling (26 05 53)		
26 05 53 00-0021	EA			Label Both Ends Of One 4 Pair Cable	24.10	
26 05 53 00-0022	EA			Label single gang face plate (2 labels required)	19.28	
26 05 53 00-0023	EA			Label two gang face plate (4 labels required)	28.92	
26 05 53 00-0024	EA			Label both ends of a Siamese (dual 4 Pair cable)	24.10	
26 05 83 Wiring Connections (26 05)						
26 05 83 00-0001				Tape Wrapped Compression Connectors (26 05 83)		
26 05 83 00-0002	EA			#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	15.64	5.51
26 05 83 00-0003	EA			#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	17.08	6.12
26 05 83 00-0004	EA			#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	18.37	6.73
26 05 83 00-0005	EA			1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	21.11	7.34
26 05 83 00-0006	EA			2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	22.73	7.96
26 05 83 00-0007	EA			3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	25.14	8.57
26 05 83 00-0008	EA			4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	26.93	9.18
26 05 83 00-0009	EA			250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	29.27	9.79
26 05 83 00-0010	EA			300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	32.43	11.02
26 05 83 00-0011	EA			350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	34.06	11.63
26 05 83 00-0012	EA			400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	37.66	12.24
26 05 83 00-0013	EA			500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	40.82	12.85
26 05 83 00-0014	EA			750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	45.52	14.08
26 05 83 00-0015	EA			1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	52.66	15.92
26 05 83 00-0016				One Hole Compression Lugs (26 05 83)		
26 05 83 00-0017	EA			#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	20.90	15.92
26 05 83 00-0018	EA			#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	21.03	15.92
26 05 83 00-0019	EA			#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	23.78	17.15
26 05 83 00-0020	EA			#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	29.21	18.98
26 05 83 00-0021	EA			#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	41.15	24.49
26 05 83 00-0022	EA			#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	48.33	24.49
26 05 83 00-0023	EA			#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	55.61	24.49
26 05 83 00-0024	EA			1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	68.61	36.73
26 05 83 00-0025	EA			2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	80.53	36.73
26 05 83 00-0026	EA			3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	94.27	36.73
26 05 83 00-0027	EA			4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	113.71	48.98
26 05 83 00-0028	EA			250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	134.88	73.47
26 05 83 00-0029	EA			300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	154.28	73.47
26 05 83 00-0030	EA			350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	165.86	73.47
26 05 83 00-0031	EA			400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	180.51	85.71

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0032	EA		500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	197.29	85.71
26 05 83 00-0033	EA		750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	214.46	97.95
26 05 83 00-0034	EA		1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	251.49	110.20
26 05 83 00-0035			Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036	EA		#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	42.57	20.82
26 05 83 00-0037	EA		#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	45.66	22.16
26 05 83 00-0038	EA		#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	48.18	22.16
26 05 83 00-0039	EA		#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	55.44	25.46
26 05 83 00-0040	EA		1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	68.43	31.83
26 05 83 00-0041	EA		2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	80.34	37.83
26 05 83 00-0042	EA		3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	94.06	44.33
26 05 83 00-0043	EA		4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	113.47	53.76
26 05 83 00-0044	EA		250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	134.60	63.79
26 05 83 00-0045	EA		300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	153.95	72.86
26 05 83 00-0046	EA		350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	165.52	78.49
26 05 83 00-0047	EA		400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	180.11	84.98
26 05 83 00-0048	EA		500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	196.85	92.81
26 05 83 00-0049	EA		750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	214.94	100.65
26 05 83 00-0050	EA		1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	265.44	122.44
26 05 83 00-0051			Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	63.96	48.98
26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	70.32	52.65
26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	80.14	55.10
26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	92.87	61.22
26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	109.45	67.34
26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	122.15	73.47
26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	152.47	79.59
26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	163.55	85.71
26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	172.30	91.83
26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	195.75	101.02
26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	219.19	146.93
26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	239.80	122.44
26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	260.41	165.30
26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	287.43	171.42
26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	323.97	183.66
26 05 83 00-0067			Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	103.65	48.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.71	
26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	115.58	48.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.15	
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	160.22	73.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.82	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	182.25	73.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.10	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	217.74	91.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.66	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	303.74	122.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.53	
26 05 83 00-0074			Terminal Blocks (26 05 83)		
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,053.74	453.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	272.10	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	256.16	61.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.18	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	281.10	61.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.57	
26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection (26 05 83)		
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	42.56	22.16
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	45.66	22.16
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	48.18	22.16
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	55.44	25.46
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	68.43	31.83
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	80.34	37.83
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	94.06	44.33
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	113.47	53.76
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	134.60	63.79
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	153.95	72.86
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	165.52	78.49
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	180.11	84.98
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	196.85	92.81
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	214.94	92.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0093 EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	42.56	22.16
26 05 83 00-0094 EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	45.66	22.16
26 05 83 00-0095 EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	48.18	22.16
26 05 83 00-0096 EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	55.44	25.46
26 05 83 00-0097 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	68.43	31.83
26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	80.34	37.83
26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	94.06	44.33
26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	113.47	53.76
26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	134.60	63.79
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	153.95	72.86
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	165.52	78.49
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	180.11	84.98
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	196.85	92.81
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	197.25	92.81
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs	34.70	15.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.78	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs	41.66	18.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.09	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs	48.14	21.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.86	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs	62.96	27.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.40	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs	84.80	36.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs	101.06	42.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.60	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs	118.14	48.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs	134.46	54.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.96	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs	153.91	61.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs	173.07	67.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.42	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs	192.16	73.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs	211.10	79.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.72	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs	230.36	85.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.42	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs	261.10	97.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.59	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs	295.60	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit	67.56	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.68	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit	65.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.42	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	12.02	5.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.36	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	12.10	5.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.36	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	12.18	5.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.36	
26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	75.88	30.61
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	75.39	30.61
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	88.23	36.73
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	107.68	45.92
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	108.66	45.92
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	108.86	45.92
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	112.10	45.92
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	143.11	61.22
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	146.75	61.22
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	185.53	76.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0142			AC Three Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0143	EA		1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	75.39	30.61
26 05 83 00-0144	EA		3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	88.23	36.73
26 05 83 00-0145	EA		1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	107.68	45.92
26 05 83 00-0146	EA		1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	108.66	45.92
26 05 83 00-0147	EA		2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	108.86	45.92
26 05 83 00-0148	EA		3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.10	45.92
26 05 83 00-0149	EA		5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	143.11	61.22
26 05 83 00-0150	EA		7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	146.75	61.22
26 05 83 00-0151	EA		10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	185.53	76.53
26 05 83 00-0152	EA		15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	190.45	76.53
26 05 83 00-0153	EA		20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	240.45	91.83
26 05 83 00-0154	EA		25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	247.94	91.83
26 05 83 00-0155	EA		30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	338.39	122.44
26 05 83 00-0156	EA		40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	424.21	153.05
26 05 83 00-0157	EA		50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	499.82	183.66
26 05 83 00-0158	EA		60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	595.07	214.28
26 05 83 00-0159	EA		75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	684.06	244.89
26 05 83 00-0160	EA		100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	848.92	306.11
26 05 83 00-0161	EA		125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,002.49	364.28
26 05 83 00-0162	EA		150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,187.51	424.88
26 05 83 00-0163	EA		200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,691.20	637.20
26 05 83 00-0164			AC Three Phase, 460 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0165	EA		1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	75.39	30.61
26 05 83 00-0166	EA		3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	88.23	36.73
26 05 83 00-0167	EA		1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	107.68	45.92
26 05 83 00-0168	EA		1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	108.66	45.92
26 05 83 00-0169	EA		2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	108.86	45.92
26 05 83 00-0170	EA		3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.10	45.92
26 05 83 00-0171	EA		5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	143.11	61.22
26 05 83 00-0172	EA		7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	146.75	61.22
26 05 83 00-0173	EA		10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	185.53	76.53
26 05 83 00-0174	EA		15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	190.45	76.53
26 05 83 00-0175	EA		20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	240.46	91.83
26 05 83 00-0176	EA		25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	247.93	91.83
26 05 83 00-0177	EA		30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	338.39	122.44
26 05 83 00-0178	EA		40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	424.58	153.30
26 05 83 00-0179	EA		50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	499.82	183.66
26 05 83 00-0180	EA		60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	595.07	214.28
26 05 83 00-0181	EA		75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	684.06	244.89
26 05 83 00-0182	EA		100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	848.92	306.11
26 05 83 00-0183	EA		125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,002.84	364.40
26 05 83 00-0184	EA		150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,187.98	425.13
26 05 83 00-0185	EA		200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,692.27	637.69
26 05 83 00-0186			AC Single Phase, 120 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0187	EA		1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	75.88	30.61
26 05 83 00-0188			Motor Moisture Sensor <small>(26 05 83 00-0130)</small>		
26 05 83 00-0189	EA		Motor Moisture Sensor Located In Winding.....	841.79	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001			Lighting Contactors <small>(26 09 23)</small>		
			Note: Up to 600 volt.		
26 09 23 00-0002			Electrically Held, Lighting Contactors <small>(26 09 23 00-0001)</small>		
26 09 23 00-0003			NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>		
26 09 23 00-0004			2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0005	EA		20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	537.38	97.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.77	
26 09 23 00-0006	EA		30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	666.97	110.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.12	
26 09 23 00-0007	EA		60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,257.57	171.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.86	
26 09 23 00-0008	EA		100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,967.31	232.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.59	
26 09 23 00-0009	EA		200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,144.45	306.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0011 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	606.99	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 09 23 00-0012 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	730.86	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.47	
26 09 23 00-0013 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,359.09	195.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.55	
26 09 23 00-0014 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,123.24	257.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.28	
26 09 23 00-0015 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,446.79	336.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	202.04	
26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0017 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	716.60	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.47	
26 09 23 00-0018 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	863.23	134.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.81	
26 09 23 00-0019 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,648.23	220.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.24	
26 09 23 00-0020 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,546.55	281.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.98	
26 09 23 00-0021 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	5,692.92	367.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	220.40	
26 09 23 00-0022 NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>		
26 09 23 00-0023 2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small>		
26 09 23 00-0024 EA 30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	887.49	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 09 23 00-0025 EA 60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,804.99	171.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.86	
26 09 23 00-0026 EA 100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,722.48	232.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.59	
26 09 23 00-0027 3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small>		
26 09 23 00-0028 EA 30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,276.44	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.47	
26 09 23 00-0029 EA 60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,978.83	195.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.55	
26 09 23 00-0030 EA 100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	3,000.23	257.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.28	
26 09 23 00-0031 EA 200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	6,978.07	336.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	202.04	
26 09 23 00-0032 4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small>		
26 09 23 00-0033 EA 30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,202.90	134.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.81	
26 09 23 00-0034 EA 60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,983.99	220.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.24	
26 09 23 00-0035 EA 100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,716.10	281.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.98	
26 09 23 00-0036 NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>		
26 09 23 00-0037 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0036)</small>		
26 09 23 00-0038 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	900.39	97.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.77	
26 09 23 00-0039 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,148.25	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 09 23 00-0040 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,217.32	171.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.86	
26 09 23 00-0041 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,330.47	232.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.59	
26 09 23 00-0042 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	6,471.12	306.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	183.67	
26 09 23 00-0043 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0036)</small>		
26 09 23 00-0044 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	932.06	110.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 09 23 00-0045 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,212.15	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.47	
26 09 23 00-0046 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,321.65	195.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.55	

26 Electrical

26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0047	EA		100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,485.47	257.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.28	
26 09 23 00-0048	EA		200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	6,772.52	336.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.04	
26 09 23 00-0049			4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0050	EA		20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,006.80	122.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0051	EA		30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,344.52	134.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81	
26 09 23 00-0052	EA		60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,985.13	220.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.24	
26 09 23 00-0053	EA		100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	4,283.11	281.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.98	
26 09 23 00-0054	EA		200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	9,050.64	367.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	220.40	
26 09 23 00-0055			NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0056			2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0057	EA		60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	2,711.88	171.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.86	
26 09 23 00-0058	EA		100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	3,849.61	232.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.59	
26 09 23 00-0059	EA		200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	3,599.18	306.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.67	
26 09 23 00-0060			3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0061	EA		60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	2,896.66	195.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.55	
26 09 23 00-0062	EA		100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	4,092.60	257.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.28	
26 09 23 00-0063			4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0064	EA		60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	1,481.43	220.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.24	
26 09 23 00-0065	EA		100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor	2,049.86	281.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.98	
26 09 23 00-0066			Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0067			NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0068			2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0069	EA		20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	801.95	97.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.77	
26 09 23 00-0070	EA		30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	912.77	110.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.12	
26 09 23 00-0071	EA		60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,736.04	171.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.86	
26 09 23 00-0072	EA		100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	2,420.44	232.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.59	
26 09 23 00-0073	EA		200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	5,615.50	306.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.67	
26 09 23 00-0074			3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0075	EA		20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	856.18	110.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.12	
26 09 23 00-0076	EA		30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	978.54	122.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0077	EA		60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,840.37	195.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.55	
26 09 23 00-0078	EA		100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	2,577.31	257.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.28	
26 09 23 00-0079	EA		200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	6,316.57	336.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.04	
26 09 23 00-0080			4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0081	EA		20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	923.74	122.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0082	EA		30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor	1,042.43	134.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0083 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,154.84 132.24	220.40
26 09 23 00-0084 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,027.83 168.98	281.62
26 09 23 00-0085 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,633.06 220.40	367.34
26 09 23 00-0086 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0066)</small>		
26 09 23 00-0087 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0088 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,211.10 58.77	97.95
26 09 23 00-0089 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,394.06 66.12	110.20
26 09 23 00-0090 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,698.60 102.86	171.42
26 09 23 00-0091 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,783.61 139.59	232.64
26 09 23 00-0092 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,940.30 183.67	306.11
26 09 23 00-0093 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0094 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,278.66 66.12	110.20
26 09 23 00-0095 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,459.83 73.47	122.44
26 09 23 00-0096 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,802.94 117.55	195.91
26 09 23 00-0097 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,941.42 154.28	257.13
26 09 23 00-0098 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,643.24 202.04	336.73
26 09 23 00-0099 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0100 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,351.35 73.47	122.44
26 09 23 00-0101 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,523.71 80.81	134.69
26 09 23 00-0102 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,491.74 132.24	220.40
26 09 23 00-0103 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,764.39 168.98	281.62
26 09 23 00-0104 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,922.30 220.40	367.34
26 09 23 00-0105 NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0066)</small>		
26 09 23 00-0106 2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0105)</small>		
26 09 23 00-0107 EA 30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	750.87 66.12	110.20
26 09 23 00-0108 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,389.82 102.86	195.91
26 09 23 00-0109 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,893.82 139.59	232.64
26 09 23 00-0110 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,426.09 183.67	306.11
26 09 23 00-0111 3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0105)</small>		
26 09 23 00-0112 EA 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	799.21 73.47	122.44
26 09 23 00-0113 4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0105)</small>		
26 09 23 00-0114 EA 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,974.16 220.40	367.34
26 09 23 00-0115 Combination Lighting Contactors <small>(26 09 23)</small> Note: Up to 600 volt.		
26 09 23 00-0116 Electrically Held, Combination Lighting Contactors <small>(26 09 23 00-0115)</small>		
26 09 23 00-0117 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors <small>(26 09 23 00-0116)</small>		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 09 23 00-0118		3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors <small>(26 09 23 00-0117)</small>			
26 09 23 00-0119	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	1,557.01	134.69	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81		
26 09 23 00-0120	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,440.57	215.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.30		
26 09 23 00-0121	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	3,951.57	282.85	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.71		
26 09 23 00-0122	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	7,238.11	370.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.24		
26 09 23 00-0123		NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors <small>(26 09 23 00-0116)</small>			
26 09 23 00-0124		3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors <small>(26 09 23 00-0123)</small>			
26 09 23 00-0125	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,839.03	134.69	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81		
26 09 23 00-0126	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,416.36	215.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.30		
26 09 23 00-0127	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	7,399.36	282.85	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.71		
26 09 23 00-0128	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	11,648.47	370.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.24		
26 09 23 00-0129		Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0115)</small>			
26 09 23 00-0130		NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0129)</small>			
26 09 23 00-0131		3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0130)</small>			
26 09 23 00-0132	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	1,703.37	134.69	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81		
26 09 23 00-0133	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,947.18	215.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.30		
26 09 23 00-0134	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,431.45	282.85	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.71		
26 09 23 00-0135	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	8,601.75	370.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.24		
26 09 23 00-0136		NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0129)</small>			
26 09 23 00-0137		3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0136)</small>			
26 09 23 00-0138	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,986.79	134.69	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.81		
26 09 23 00-0139	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,925.79	215.51	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.30		
26 09 23 00-0140	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	7,880.64	282.85	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.71		
26 09 23 00-0141	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	13,012.11	370.40	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.24		
26 09 23 00-0142		Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket <small>(26 09 23)</small>			
26 09 23 00-0143	EA	105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	119.93	31.83	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13		
26 09 23 00-0144	EA	105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	129.24	31.83	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13		
26 09 23 00-0145		Dimming Module System (Lutron Grafik Eye) <small>(26 09 23)</small>			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0146 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,749.99	122.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0147 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	2,261.17	122.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0148 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	2,781.46	122.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47	
26 09 23 00-0149 Dimming Module Contol (Leviton) (26 09 23)		
26 09 23 00-0150 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0).....	226.43	15.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.20	
26 09 23 00-0151 Light Control Panels (26 09 23)		
26 09 23 00-0152 Lighting Control Panels (Watt Stopper) (26 09 23 00-0151)		
26 09 23 00-0153 Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)		
26 09 23 00-0154 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4).....	1,952.26	171.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.10	
26 09 23 00-0155 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8).....	1,830.48	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0156 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G).....	2,059.07	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0157 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8).....	3,082.05	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0158 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G).....	3,350.42	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0159 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4).....	2,172.10	171.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.10	
26 09 23 00-0160 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8).....	2,330.71	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0161 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G).....	2,598.82	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0162 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8).....	3,189.30	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0163 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G).....	3,457.66	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0164 Accessories For Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)		
26 09 23 00-0165 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2).....	188.81	30.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 09 23 00-0166 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W).....	145.29	24.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0167 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2).....	76.33	24.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0168 Lighting Control Panels (Synergy) (26 09 23 00-0151)		
26 09 23 00-0169 Lighting Control Panels (Synergy) (26 09 23 00-0168)		
26 09 23 00-0170 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S).....	2,777.45	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0171 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0168)		
26 09 23 00-0172 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	681.25	30.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 09 23 00-0173 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	263.86	12.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 09 23 00-0174 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	149.44	18.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.05	
26 09 23 00-0175 Lighting Switching Panels (Lutron) (26 09 23 00-0151)		
26 09 23 00-0176 Lighting Switching Panels (Lutron) (26 09 23 00-0175)		
26 09 23 00-0177 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	2,260.10	184.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.47	
26 09 23 00-0178 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	3,098.83	196.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.83	
26 09 23 00-0179 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	4,057.95	208.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.20	
26 09 23 00-0180 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0151)		
26 09 23 00-0181 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	1,511.50	171.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.10	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0182	EA		12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z)	1,723.83	171.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>103.10</i>	
26 09 23 00-0183	EA		18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z)	1,936.16	171.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>103.10</i>	
26 09 23 00-0184			Power Filters (26 09 23 00-0151)		
26 09 23 00-0185	EA		600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure	29,907.94	1,020.33
26 09 23 00-0186	EA		200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure	17,607.59	443.62
26 09 23 00-0187			Signal Filters (26 09 23 00-0151)		
26 09 23 00-0188	EA		0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case	13,931.01	927.64
26 09 23 00-0189	EA		0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case	9,493.91	566.92
26 09 23 00-0190	EA		0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case	5,302.83	329.13
26 09 23 00-0191	EA		5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case	7,160.64	329.13
26 09 23 00-0192			Lighting Control Devices (Encelium) (26 09 23)		
26 09 23 00-0193	EA		8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polaris 3D™ (Encelium EN-ECU-G4-P3D)	16,077.35	122.74
			Note: Excludes GB II cable.		
26 09 23 00-0194	EA		Server, System Support Unit (SSU) (Encelium EN-SSU-1U)	7,347.76	122.74
			Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0195	EA		Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT)	3,822.30	122.74
			Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0196	EA		Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT)	16,171.93	122.74
			Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0197	EA		Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK)	126.71	15.35
			Note: Excludes GB II cable.		
26 09 23 00-0198	EA		Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR)	196.56	15.35
			Note: Excludes GB II cable.		
26 09 23 00-0199	EA		Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK)	246.99	30.68
			Note: Excludes GB II cable.		
26 09 23 00-0200	EA		Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR)	298.33	30.68
			Note: Excludes GB II cable.		
26 09 23 00-0201	EA		Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK)	157.40	30.68
			Note: Excludes GB II cable.		
26 09 23 00-0202	EA		Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR)	227.25	30.68
			Note: Excludes GB II cable.		
26 09 23 00-0203	EA		16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700)	572.96	61.37
			Note: Excludes cable.		
26 09 23 00-0204	EA		Rack Mounted, Wired Power Bar (Encelium PWR-700)	429.47	61.37
26 09 23 00-0205	EA		Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800)	790.19	61.37
26 09 23 00-0206	EA		Wall Mounted, 4U Mounting Rack (Encelium RCK-700)	267.31	61.37
26 09 23 00-0207	EA		4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042)	886.28	61.37
			Note: Excludes cable.		
26 09 23 00-0208	EA		Wired BACnet Interface (Encelium BIF-600)	9,315.14	245.49
			Note: Excludes cable.		
26 09 23 00-0209	EA		Wired AV Interface (Encelium EN-SW-AVINT)	6,902.47	61.37
			Note: Excludes cable.		
26 09 23 00-0210	EA		Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH)	257.77	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0211	EA		3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH)	314.52	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0212	EA		3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH)	300.83	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0213	EA		5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH)	314.52	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0214	EA		6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH)	300.83	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0215	EA		Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT)	227.10	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0216	EA		Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT)	314.52	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0217	EA		3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT)	300.83	15.35
			Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0218	EA		Wired Key Switch Controller (Encelium KSW-300)	221.58	15.35
			Note: Excludes GB II cable.		
26 09 23 00-0219	EA		Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH)	93.87	15.35
			Note: Includes white finish.		
26 09 23 00-0220	EA		1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2)	75.73	30.68
26 09 23 00-0221	EA		1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2)	76.33	30.68
26 09 23 00-0222	EA		5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2)	81.17	30.68
26 09 23 00-0223	EA		10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2)	85.94	30.68
26 09 23 00-0224	EA		15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2)	91.64	30.68
26 09 23 00-0225	EA		20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2)	96.78	30.68
26 09 23 00-0226	EA		25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2)	103.09	30.68
26 09 23 00-0227	EA		50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2)	131.62	30.68
26 09 23 00-0228	EA		1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2)	852.86	30.68
26 09 23 00-0229	EA		Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2)	206.18	30.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0230 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	1,101.37	30.68
26 09 23 00-0231 EA Indoor Wired Photo Sensor (Encelium PHS-700).....	642.75	61.37
Note: Excludes GB II cable.		
26 09 23 00-0232 EA Outdoor Wired Photo Sensor (Encelium PHS-800).....	642.75	61.37
Note: Excludes GB II cable.		
26 09 23 00-0233 EA Skylight Wired Photo Sensor (Encelium PHS-900).....	642.75	61.37
Note: Excludes GB II cable.		
26 09 23 00-0234 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450).....	333.53	61.37
Note: Excludes GB II cable.		
26 09 23 00-0235 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500).....	323.16	61.37
Note: Excludes GB II cable.		
26 09 23 00-0236 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00).....	330.08	61.37
Note: Excludes GB II cable.		
26 09 23 00-0237 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	364.64	61.37
Note: Excludes GB II cable.		
26 09 23 00-0238 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	330.08	61.37
Note: Excludes GB II cable.		
26 09 23 00-0239 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV).....	260.98	61.37
Note: Excludes GB II cable.		
26 09 23 00-0240 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....	276.77	61.37
Note: Excludes GB II cable.		
26 09 23 00-0241 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....	276.77	61.37
Note: Excludes GB II cable.		
26 09 23 00-0242 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360).....	145.13	61.37
Note: Excludes GB II cable.		
26 09 23 00-0243 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24).....	338.63	61.37
Note: Excludes GB II cable.		
26 09 23 00-0244 EA Hallway, Wired Occupancy Sensor (Encelium HW-13).....	479.50	61.37
Note: Excludes GB II cable.		
26 09 23 00-0245 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500).....	419.92	61.37
Note: Excludes GB II cable.		
26 09 23 00-0246 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000).....	447.57	61.37
Note: Excludes GB II cable.		
26 09 23 00-0247 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000).....	461.40	61.37
Note: Excludes GB II cable.		
26 09 23 00-0248 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200).....	416.46	61.37
Note: Excludes GB II cable.		
26 09 23 00-0249 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV).....	347.37	61.37
Note: Excludes GB II cable.		
26 09 23 00-0250 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W).....	434.79	61.37
Note: Excludes GB II cable.		
26 09 23 00-0251 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W).....	431.17	61.37
Note: Excludes GB II cable.		
26 09 23 00-0252 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W).....	478.32	61.37
Note: Excludes GB II cable.		
26 09 23 00-0253 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W).....	463.82	61.37
Note: Excludes GB II cable.		
26 09 23 00-0254 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24).....	499.25	61.37
Note: Excludes GB II cable.		
26 09 23 00-0255 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV).....	463.97	61.37
Note: Excludes GB II cable.		
26 09 23 00-0256 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT).....	463.97	61.37
Note: Excludes GB II cable.		
26 09 23 00-0257 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	304.72	61.37
26 09 23 00-0258 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	326.44	61.37
26 09 23 00-0259 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	572.48	61.37
26 09 23 00-0260 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	612.36	61.37
26 09 23 00-0261 EA 10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	451.47	61.37
26 09 23 00-0262 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	470.74	61.37
26 09 23 00-0263 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2).....	1,351.31	122.74
Note: Excludes GB II cable and enclosure.		
26 09 23 00-0264 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V).....	4,220.40	490.97
Note: Excludes GB II cable.		
26 09 23 00-0265 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V).....	6,163.49	490.97
Note: Excludes GB II cable.		
26 09 23 00-0266 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V).....	8,106.57	490.97
Note: Excludes GB II cable.		
26 09 23 00-0267 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2).....	675.65	61.37
Note: Excludes GB II cable.		
26 09 23 00-0268 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2).....	774.39	61.37
Note: Excludes GB II cable.		
26 09 23 00-0269 EA Wireless Manager (Encelium EN-WM-ZB-P3D).....	2,097.42	61.37
Note: Includes white finish.		
26 09 23 00-0270 EA Wireless Control Module (Encelium EN-WCM-ZB).....	285.17	30.68
26 09 23 00-0271 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....	337.83	30.68
26 09 23 00-0272 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	339.14	30.68
26 09 23 00-0273 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR).....	351.56	30.68

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0274 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0275 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0276 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0277 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0278 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0279 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	263.03	15.35
26 09 23 00-0280 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	557.17	61.37
26 09 23 00-0281 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	346.54	61.37
26 09 23 00-0282 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	346.54	61.37
26 09 23 00-0283 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	399.20	61.37
26 09 23 00-0284 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	399.20	61.37
26 09 23 00-0285 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0286 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0287 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0288 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0289 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0290 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)..... Note: Includes white finish.	263.03	15.35
26 09 23 00-0291 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	557.17	61.37
26 09 23 00-0292 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	254.48	15.35
26 09 23 00-0293 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	254.48	15.35
26 09 23 00-0294 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	254.48	15.35
26 09 23 00-0295 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	263.03	15.35
26 09 23 00-0296 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	557.17	61.37
26 09 23 00-0297 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	346.54	61.37
26 09 23 00-0298 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	346.54	61.37
26 09 23 00-0299 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	399.20	61.37
26 09 23 00-0300 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	399.20	61.37
26 09 23 00-0301 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0302 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0303 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0304 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	254.48	15.35
26 09 23 00-0305 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	254.48	15.35
26 09 23 00-0306 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	263.03	15.35
26 09 23 00-0307 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	557.17	61.37
26 09 23 00-0308 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	153.01	61.37
26 09 23 00-0309 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	730.39	61.37
26 09 23 00-0310 Lighting Control Sensors (26 09 23)		
26 09 23 00-0311 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	389.59	27.62
26 09 23 00-0312 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI).....	389.59	27.62
26 09 23 00-0313 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	341.06	27.62
26 09 23 00-0314 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U).....	102.55	18.41
26 09 23 00-0315 EA Clip for Performance Troffer (LG BKTR015122.BUAAWAA).....	8.16	
26 09 23 00-0316 EA Clip for Downlight (BKTC015123.BUAAWAA).....	66.86	
26 09 23 00-0317 EA Clip for Tube (LG BKTTU015121.BUAAWAA).....	11.69	
26 09 23 00-0318 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0319 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0320 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0321 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	514.91	18.41
26 09 23 00-0322 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	669.87	18.41
26 09 23 00-0323 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	844.19	18.41
26 09 23 00-0324 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0325 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	514.91	18.41
26 09 23 00-0326 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	611.76	18.41
26 09 23 00-0327 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	844.19	18.41
26 09 23 00-0328 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	514.91	18.41
26 09 23 00-0329 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	669.87	18.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0330 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	844.19	18.41
26 09 23 00-0331 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>		
26 09 23 00-0332 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	669.87	18.41
26 09 23 00-0333 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	844.19	18.41
26 09 23 00-0334 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	844.19	18.41
26 09 23 00-0335 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>		
26 09 23 00-0336 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....	514.91	18.41
26 09 23 00-0337 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	669.87	18.41
26 09 23 00-0338 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	611.76	18.41
26 09 23 00-0339 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	747.35	18.41
26 09 23 00-0340 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	669.87	18.41
26 09 23 00-0341 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	805.45	18.41
26 09 23 00-0342 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	669.87	18.41
26 09 23 00-0343 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>		
26 09 23 00-0344 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	514.91	18.41
26 09 23 00-0345 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	669.87	18.41
26 09 23 00-0346 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....	669.87	18.41
26 09 23 00-0347 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	844.19	18.41
26 09 23 00-0348 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	669.87	18.41
26 09 23 00-0349 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH).....	844.19	18.41
26 09 23 00-0350 Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>		
26 09 23 00-0351 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	514.91	18.41
26 09 23 00-0352 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	669.87	18.41
26 09 23 00-0353 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....	844.19	18.41
26 09 23 00-0354 Accessories For Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>		
26 09 23 00-0355 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	108.16	18.41
26 09 23 00-0356 Wall Box Transmitters For Radio Controlled Devices <small>(26 09 23 00-0318)</small>		
26 09 23 00-0357 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	476.18	18.41
26 09 23 00-0358 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	514.91	18.41
26 09 23 00-0359 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	514.91	18.41
26 09 23 00-0360 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	514.91	18.41
26 09 23 00-0361 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	514.91	18.41
26 09 23 00-0362 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	514.91	18.41
26 09 23 00-0363 Interfaces For Radio Controlled Devices <small>(26 09 23 00-0318)</small>		
26 09 23 00-0364 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	476.18	18.41
26 09 23 00-0365 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	476.18	18.41
26 09 23 00-0366 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	476.18	18.41
26 09 23 00-0367 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	968.16	18.41
26 09 23 00-0368 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	1,386.53	18.41
26 09 23 00-0369 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	1,386.53	18.41

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0370 Fluorescent Controllers For Radio Controlled Devices <small>(26 09 23 00-0318)</small>		
26 09 23 00-0371 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	611.76	18.41
26 09 23 00-0372 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F)	689.24	18.41
26 09 23 00-0373 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC)	805.45	18.41
26 09 23 00-0374 AC Motor Group Controllers For Radio Controlled Devices <small>(26 09 23 00-0318)</small>		
26 09 23 00-0375 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	902.30	18.41
26 09 23 00-0376 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC)	1,241.26	18.41
26 09 23 00-0377 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23)</small>		
26 09 23 00-0378 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) <small>(26 09 23 00-0377)</small>		
26 09 23 00-0379 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	138.25	24.55
26 09 23 00-0380 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120)	162.91	24.55
26 09 23 00-0381 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV)	254.82	24.55
26 09 23 00-0382 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS)	97.11	24.55
26 09 23 00-0383 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	118.65	24.55
26 09 23 00-0384 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	106.15	24.55
26 09 23 00-0385 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	128.13	24.55
26 09 23 00-0386 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23 00-0377)</small>		
26 09 23 00-0387 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	132.56	24.55
26 09 23 00-0388 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV)	143.94	24.55
26 09 23 00-0389 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	172.39	24.55
26 09 23 00-0390 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	184.66	30.68
26 09 23 00-0391 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120)	228.35	24.55
26 09 23 00-0392 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R)	75.18	24.55
26 09 23 00-0393 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277)	90.83	24.55
26 09 23 00-0394 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD)	80.88	24.55
26 09 23 00-0395 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277)	96.52	24.55
26 09 23 00-0396 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV)	256.63	42.96
26 09 23 00-0397 Removal And Reinstallation Of Occupancy Sensors <small>(26 09 23)</small>		
26 09 23 00-0398 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor	82.85	
Note: Includes storing and cleaning.		
26 09 23 00-0399 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor	55.23	
Note: Includes storing and cleaning.		
26 09 23 00-0400 Occupancy Sensors (Watt Stopper) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0401 Occupancy Sensors <small>(26 09 23 00-0400)</small>		
Note: Exclude boxes.		
26 09 23 00-0402 Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0401)</small>		
26 09 23 00-0403 Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0402)</small>		
26 09 23 00-0404 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100)	137.48	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.37	
26 09 23 00-0405 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)	162.49	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.37	
26 09 23 00-0406 Passive Infrared, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0402)</small>		
26 09 23 00-0407 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)	113.30	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.37	
26 09 23 00-0408 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)	105.72	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.37	
26 09 23 00-0409 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)	119.87	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0410 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	138.99	12.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 09 23 00-0411 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD).....	137.42	12.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 09 23 00-0412 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors		
<small>(26 09 23 00-0402)</small>		
26 09 23 00-0413 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	200.57	12.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 09 23 00-0414 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200).....	216.39	12.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 09 23 00-0415 Wall Switch Mounted Occupancy Sensor Accessories <small>(26 09 23 00-0402)</small>		
26 09 23 00-0416 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.64	3.07
26 09 23 00-0417 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	8.90	3.07
26 09 23 00-0418 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	8.90	3.07
26 09 23 00-0419 Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0401)</small>		
26 09 23 00-0420 Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0419)</small>		
26 09 23 00-0421 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>		
26 09 23 00-0422 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	180.42	27.62
26 09 23 00-0423 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	207.62	27.62
26 09 23 00-0424 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	235.02	27.62
26 09 23 00-0425 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	232.55	27.62
26 09 23 00-0426 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>		
26 09 23 00-0427 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	196.52	27.62
26 09 23 00-0428 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	224.11	27.62
26 09 23 00-0429 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	250.23	27.62
26 09 23 00-0430 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	254.66	27.62
26 09 23 00-0431 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	213.01	27.62
26 09 23 00-0432 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	241.28	27.62
26 09 23 00-0433 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	269.45	27.62
26 09 23 00-0434 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	277.56	27.62
26 09 23 00-0435 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>		
26 09 23 00-0436 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	204.49	27.62
26 09 23 00-0437 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	237.45	27.62
26 09 23 00-0438 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	265.04	27.62
26 09 23 00-0439 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	192.34	27.62
26 09 23 00-0440 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	233.89	27.62
26 09 23 00-0441 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	247.34	27.62
26 09 23 00-0442 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	206.20	27.62
26 09 23 00-0443 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	230.12	27.62
26 09 23 00-0444 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	259.65	27.62
26 09 23 00-0445 Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0419)</small>		
26 09 23 00-0446 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	148.67	27.62
26 09 23 00-0447 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	151.88	27.62
26 09 23 00-0448 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	159.49	27.62
26 09 23 00-0449 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	179.90	27.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0450 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	182.38	27.62
26 09 23 00-0451 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200)	193.06	27.62
26 09 23 00-0452 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300)	210.16	27.62

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 09 23 00-0453		Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0419)</small>		
26 09 23 00-0454	EA	1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	250.00	27.62
26 09 23 00-0455	EA	1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	286.17	27.62
26 09 23 00-0456	EA	1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	242.32	27.62
26 09 23 00-0457		Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0401)</small>		
26 09 23 00-0458		Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0457)</small>		
26 09 23 00-0459	EA	120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	307.85	27.62
26 09 23 00-0460	EA	2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	307.85	27.62
26 09 23 00-0461		Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0457)</small>		
26 09 23 00-0462	EA	2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	286.17	27.62
26 09 23 00-0463		Occupancy Sensor Power Packs <small>(26 09 23 00-0400)</small>		
26 09 23 00-0464		Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0465	EA	220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	99.67	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0466	EA	347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	90.49	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0467		Auxiliary, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0468	EA	120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	82.92	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0469		Universal Voltage, Power Packs For Occupancy Sensors <small>(26 09 23 00-0463)</small>		
26 09 23 00-0470	EA	120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	110.62	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0471		Form C, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0472	EA	120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	100.09	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0473	EA	277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	100.17	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0474		Two Relay, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0475	EA	120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	126.72	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0476	EA	277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	128.54	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0477		Occupancy Sensor Power Supplies <small>(26 09 23 00-0463)</small>		
26 09 23 00-0478	EA	120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....	114.92	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0479	EA	277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	261.34	24.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0480		Intelligent, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0481	EA	120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	346.73	24.55
26 09 23 00-0482		DIN Rail Mounted, Occupancy Sensor Power Packs <small>(26 09 23 00-0463)</small>		
26 09 23 00-0483	EA	120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	109.58	24.55
26 09 23 00-0484		Occupancy Sensor Accessories <small>(26 09 23 00-0400)</small>		
26 09 23 00-0485		Protective Cages For Occupancy Sensors <small>(26 09 23 00-0484)</small>		
26 09 23 00-0486	EA	Protective Cage For Occupancy Sensors (Watt Stopper WC).....	63.52	9.20
26 09 23 00-0487		Mounting Brackets For Occupancy Sensors <small>(26 09 23 00-0484)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0488 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	48.70	15.35
Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.		
26 09 23 00-0489 Occupancy/Lighting Logger (26 09 23 00-0484)		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0490 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	473.49	52.17
26 09 23 00-0491 Digital Time Light Switches (26 09 23 00-0400)		
26 09 23 00-0492 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	102.14	12.27
26 09 23 00-0493 Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (26 09 23 00-0400)		
26 09 23 00-0494 EA Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211)	223.03	39.89
26 09 23 00-0495 Occupancy Sensors (Sensor Switch) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0496 Occupancy Sensors (Sensor Switch) (26 09 23 00-0495)		
Note: Exclude boxes		
26 09 23 00-0497 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0498 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)		
26 09 23 00-0499 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	218.24	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Low Voltage Relay Option, Add 17.61		
26 09 23 00-0500 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL)	153.68	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0501 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)	146.58	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0502 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	146.58	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0503 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P)	185.96	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0504 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	185.96	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
26 09 23 00-0505 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	226.33	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
26 09 23 00-0506 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)	185.96	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
26 09 23 00-0507 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0508 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	282.81	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Low Voltage Relay Option, Add 17.61		
26 09 23 00-0509 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL)	218.24	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0510 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	213.41	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0511 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)	213.41	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0512 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P).....	250.53	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.37		
26 09 23 00-0513 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)	250.53	12.27
For Low Temp/High Humidity Option, Add 14.67		
For Photocell (Inhibit Mode Only) Option, Add 17.61		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0514	EA		2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i>	269.90 14.67 17.61	12.27
26 09 23 00-0515			Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0497)		
26 09 23 00-0516	EA		One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	19.04	3.07
26 09 23 00-0517	EA		One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	19.04	3.07
26 09 23 00-0518	EA		Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3).....	38.41	3.07
26 09 23 00-0519	EA		Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	38.41	3.07
26 09 23 00-0520			360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0521			Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0520) Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0522	EA		Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	248.92 14.67 17.61 17.61 29.35 44.02	27.62
26 09 23 00-0523	EA		Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	248.92 14.67 17.61 17.61 29.35 44.02	27.62
26 09 23 00-0524	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	248.92 14.67 17.61 17.61 29.35 44.02	27.62
26 09 23 00-0525	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	265.06 14.67 17.61 29.35 44.02 16.57	27.62
26 09 23 00-0526	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	265.06 14.67 17.61 29.35 44.02 16.57	27.62
26 09 23 00-0527	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	213.41 14.67 17.61 29.35 44.02 16.57	27.62
26 09 23 00-0528	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Photocell Option With Dual Zone On/Off, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	329.63 14.67 17.61 44.02 16.57	27.62
26 09 23 00-0529	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Photocell Option With Dual Zone On/Off, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	329.63 14.67 17.61 44.02 16.57	27.62
26 09 23 00-0530	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Photocell Option With Dual Zone On/Off, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.98 14.67 17.61 44.02 16.57	27.62
26 09 23 00-0531	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Photocell Option With Dimming Capability, Add</i>	248.92 14.67 17.61 17.61 29.35 44.02	27.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0532 EA Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0533 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0534 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10)	265.06	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0535 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10)	265.06	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0536 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	213.41	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0537 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P)	329.63	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0538 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P)	329.63	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0539 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)	277.98	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0540 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)⁽²⁶⁾		
<small>09 23 00-0520</small>		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0541 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9)	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0542 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9)	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0543 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9)	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0544 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9)	297.35	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	

26 Electrical

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0545	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	297.35	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0546	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	245.70	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0547	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	361.91	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0548	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	361.91	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0549	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	310.26	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0550	EA		Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0551	EA		Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0552	EA		Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
26 09 23 00-0553	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	297.35	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0554	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	297.35	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0555	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	245.70	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Photocell Option With Dimming Capability, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0556	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	361.91	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0557	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	361.91	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0558 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	310.26	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0559 Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0496)</small>		
26 09 23 00-0560 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0559)</small>		
26 09 23 00-0561 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	281.21	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
26 09 23 00-0563 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	345.77	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Ceiling Mount, Add</i>	29.35	
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	329.63	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0565 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	394.19	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0566 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0559)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0567 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
26 09 23 00-0568 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	361.91	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0569 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	426.48	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	17.61	
<i>For Ceiling Mount, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0570 High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0496)</small>		
26 09 23 00-0571 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0570)</small>		
26 09 23 00-0572 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell Option, Add</i>	29.35	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0573 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell Option, Add</i>	29.35	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0574 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	248.92	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Photocell Option, Add</i>	29.35	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0575	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6)	213.41	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Start To High, HID Option, Add</i>	17.61	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0576	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6)	213.41	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Start To High, HID Option, Add</i>	17.61	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0577	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6)	213.41	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Start To High, HID Option, Add</i>	17.61	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0578	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P)	277.98	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0579	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P)	277.98	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0580	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P)	277.98	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0581	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0582	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0583	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0584	EA		480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0585	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0586	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480)	236.01	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0587	EA		Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50)	281.21	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0588	EA		Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50)	281.21	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0589	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50)	281.21	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Low Voltage Relay Option, Add</i>	17.61	
			<i>For Photocell Option, Add</i>	29.35	
			<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0590 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	342.54	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Start To High, HID Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0591 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	342.54	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Start To High, HID Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0592 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	342.54	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Start To High, HID Option, Add</i>	17.61	
<i>For Photocell Option, Add</i>	29.35	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0593 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	300.58	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0594 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	300.58	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0595 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	252.15	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0596 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	252.15	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0597 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	252.15	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0598 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	252.15	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Photocell Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0599 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	281.21	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0600 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	281.21	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Low Voltage Relay Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
26 09 23 00-0601 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	342.54	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Start To High, HID Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0602 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	342.54	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Start To High, HID Option, Add</i>	17.61	
<i>For Occupancy Controlled Dimming Option, Add</i>	29.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0603 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	329.63	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0604 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	297.35	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0605 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	297.35	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0606 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0495)		
26 09 23 00-0607 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	139.49	24.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0608	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	204.05	24.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0609	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	107.21	24.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0610	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	97.52	24.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0611	EA		20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	129.81	24.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0612	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	210.51	24.55
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0613	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	210.51	24.55
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0614	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	210.51	24.55
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.73	
26 09 23 00-0615 Daylighting Control (Sensor Switch) <small>(26 09 23 00-0495)</small>					
26 09 23 00-0616	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0617	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0618	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0619	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For 480 Volt AC Option, Add</i>	20.54	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0620	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For 480 Volt AC Option, Add</i>	20.54	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0621	EA		Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For 480 Volt AC Option, Add</i>	20.54	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0622	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0623	EA		Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0624	EA		Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0625	EA		Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0626	EA		Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0627	EA		Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	216.64	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0628	EA		Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0629	EA		Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0630	EA		Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
26 09 23 00-0631	EA		Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	313.49	27.62
			<i>For Low Temp/High Humidity Option, Add</i>	14.67	
			<i>For Dual Zone Option, Add</i>	44.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0632 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Dual Zone Option, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0633 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	313.49	27.62
<i>For Low Temp/High Humidity Option, Add</i>	14.67	
<i>For Dual Zone Option, Add</i>	44.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 09 23 00-0634 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0635 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
Note: Excludes boxes.		
26 09 23 00-0636 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
26 09 23 00-0637 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0636)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0638 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	339.72	12.27
26 09 23 00-0639 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
26 09 23 00-0640 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small>		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0641 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	401.57	27.62
26 09 23 00-0642 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	401.57	27.62
26 09 23 00-0643 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	401.57	27.62
26 09 23 00-0644 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small>		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0645 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	470.83	27.62
26 09 23 00-0646 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	470.83	27.62
26 09 23 00-0647 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	488.12	27.62
26 09 23 00-0648 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
26 09 23 00-0649 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0648)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0650 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	470.83	27.62
26 09 23 00-0651 High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
26 09 23 00-0652 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0651)</small>		
26 09 23 00-0653 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	401.57	27.62
26 09 23 00-0654 Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0655 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	135.68	24.55
26 09 23 00-0656 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	170.35	24.55
26 09 23 00-0657 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	229.19	24.55
26 09 23 00-0658 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	229.19	24.55
26 09 23 00-0659 Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0660 EA RS232 AV Integrator (Sensor Switch nLight® nIO X).....	488.12	27.62
26 09 23 00-0661 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	392.70	27.62
26 09 23 00-0662 Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0663	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	332.30	27.62
26 09 23 00-0664			Controls (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0665	EA		On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX)	218.01	27.62
26 09 23 00-0666	EA		Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH)	315.01	27.62
26 09 23 00-0667	EA		On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM)	730.59	27.62
26 09 23 00-0668	EA		3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	730.59	27.62
26 09 23 00-0669	EA		3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2)	2,739.34	27.62
26 09 23 00-0670			Occupancy Sensors (Lutron) <small>(26 09 23)</small>		
			Note: Includes testing of new devices and certification.		
26 09 23 00-0671			Wireless Occupancy Sensors <small>(26 09 23 00-0670)</small>		
26 09 23 00-0672	EA		Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	161.80	27.62
26 09 23 00-0673	EA		Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	168.96	27.62
26 09 23 00-0674	EA		Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH)	163.50	27.62
26 09 23 00-0675	EA		Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH)	172.97	27.62
26 09 23 00-0676	EA		Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH)	165.62	27.62
26 09 23 00-0677	EA		Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH)	172.97	27.62
26 09 23 00-0678	EA		Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH)	161.80	27.62
26 09 23 00-0679	EA		Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH)	165.62	27.62
26 09 23 00-0680	EA		Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V)	163.50	27.62
26 09 23 00-0681	EA		Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	252.68	27.62
26 09 23 00-0682	EA		Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH)	269.66	27.62
26 09 23 00-0683	EA		Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	307.88	27.62
26 09 23 00-0684	EA		Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH)	324.87	27.62
26 09 23 00-0685	EA		Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	333.36	27.62
26 09 23 00-0686	EA		Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH)	350.35	27.62
26 09 23 00-0687	EA		Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH)	199.17	27.62
26 09 23 00-0688	EA		Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH)	210.21	27.62
26 09 23 00-0689	EA		Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	246.31	27.62
26 09 23 00-0690	EA		Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	273.91	27.62
26 09 23 00-0691	EA		Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	295.14	27.62
26 09 23 00-0692	EA		Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	254.80	27.62
26 09 23 00-0693	EA		Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH)	234.18	27.62
26 09 23 00-0694	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH)	195.80	27.62
26 09 23 00-0695	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH)	241.05	27.62
26 09 23 00-0696	EA		Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C)	292.73	27.62
26 09 23 00-0697	EA		Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H)	310.71	27.62
26 09 23 00-0698	EA		Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	310.71	27.62
26 09 23 00-0699	EA		Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	310.71	27.62
26 09 23 00-0700	EA		Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V)	327.19	27.62
26 09 23 00-0701	EA		Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W)	530.81	39.89
26 09 23 00-0702			Nodes And Modules <small>(26 09 23 00-0670)</small>		
26 09 23 00-0703	EA		0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C)	263.29	27.62
26 09 23 00-0704	EA		0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J)	263.29	27.62
26 09 23 00-0705	EA		4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	333.36	27.62
26 09 23 00-0706	EA		4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	333.36	27.62
26 09 23 00-0707	EA		120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PPHM-3F-120-WH)	426.56	30.68
26 09 23 00-0708	EA		120 Volt, Gang Box Mount, Switching Power Module (Lutron® PPHM-SW-DV-WH)	426.56	30.68
26 09 23 00-0709	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PPHM-PA-120-WH)	517.86	30.68
26 09 23 00-0710	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PPHM-WBX-120-WH)	530.60	30.68
26 09 23 00-0711	EA		120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PPHM-3F-DV-WH)	655.88	30.68
26 09 23 00-0712	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PPHM-PA-DV-WH)	696.22	30.68
26 09 23 00-0713	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PPHM-WBX-DV-WH)	736.56	30.68
26 09 23 00-0714	EA		1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2)	1,993.24	49.10
26 09 23 00-0715	EA		2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4)	1,957.75	55.23
26 09 23 00-0716	EA		3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6)	2,872.43	61.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0717				Other Accessories <small>(26 09 23 00-0670)</small>		
26 09 23 00-0718	EA			Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	41.47	
26 09 23 00-0719	EA			Pico® Wireless Control (Lutron® PJ).....	54.23	
26 09 23 00-0720	EA			4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	160.88	
26 09 23 00-0721	EA			8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	307.39	
26 09 23 00-0722	EA			4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	321.11	27.62
26 09 23 00-0723	EA			seeTouch® QS Wallstation (Lutron® QSWS2).....	407.17	27.62
26 09 23 00-0724	EA			seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	407.17	27.62
26 09 23 00-0725	EA			120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	668.62	30.68
26 09 23 00-0726	EA			120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	917.04	30.68
26 09 23 00-0727	EA			Control Interface (Lutron® QSE-CI-NWK-E).....	1,104.12	27.62
26 09 23 00-0728	EA			1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	1,095.65	27.62
26 09 23 00-0729	EA			2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,467.23	27.62
26 09 23 00-0730	MLF			5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	2,351.20	857.11
26 09 23 00-0731	MLF			5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	3,200.53	857.11
26 09 23 00-0732				Fixture Mounted Occupancy Sensors (Leviton) <small>(26 09 23)</small>		
				Note: Includes testing of new devices and certification.		
26 09 23 00-0733	EA			120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	155.00	27.62
26 09 23 00-0734	EA			480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....	135.47	27.62
26 09 23 00-0735	EA			120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	171.14	27.62
26 09 23 00-0736	EA			480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	135.47	27.62
26 09 23 00-0737	EA			120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	226.92	12.24
26 09 23 00-0738				Wireless Enabled Communication Devices For Streetlights <small>(26 09 23)</small>		
				Note: Includes testing of new devices and certification.		
26 09 23 00-0739				Wireless Enabled Communication Nodes For Streetlights (Roam®) <small>(26 09 23 00-0738)</small>		
26 09 23 00-0740	EA			120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	346.18	
26 09 23 00-0741	EA			480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	484.72	
26 09 23 00-0742				Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0738)</small>		
26 09 23 00-0743	EA			Retrofit Receptacle Kit (Roam® DUR103).....	58.74	
				Note: For adapting light fixtures for use with a NEMA locking type photocontrol.		
26 09 23 00-0744	EA			Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	13,991.30	68.93
26 09 23 00-0745				Counter Mounted Consolets <small>(26 09 23)</small>		
26 09 23 00-0746	EA			20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	676.24	153.05
26 09 23 00-0747				Lighting Console And Stations <small>(26 09 23)</small>		
26 09 23 00-0748	EA			80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	4,932.49	153.05
				For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	106.98	
				For Lighting Console Case (ETC ColorSourcePart 11866), Add	1,140.68	
26 09 23 00-0749	EA			10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2).....	3,407.53	91.83
26 09 23 00-0750				Emergency Lighting Controls <small>(26 09 23)</small>		
26 09 23 00-0751				Emergency Lighting Control Units (Watt Stopper ELCU) <small>(26 09 23 00-0750)</small>		
				Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0752	EA			DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	235.63	30.68
26 09 23 00-0753	EA			1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200).....	235.63	30.68
26 09 23 00-0754				Emergency Shunt Relays (Lighting Control & Design GR 2001™) <small>(26 09 23 00-0750)</small>		
				Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0755	EA			1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	398.79	42.96
26 09 23 00-0756	EA			2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	544.99	49.10
26 09 23 00-0757	EA			2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	736.18	55.23
				Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0758				Photocells <small>(26 09 23)</small>		
26 09 23 00-0759	EA			Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	96.33	

26 Electrical

26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0760	EA		Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	218.12	
26 09 23 00-0761			Outdoor Lighting Motion Sensors <small>(26 09 23)</small>		
26 09 23 00-0762	EA		70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000).....	128.59	30.68
26 09 23 00-0763	EA		70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	140.77	30.68
26 09 23 00-0764	EA		30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	593.25	30.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 09 23 00-0765			Street Light Controls <small>(26 09 23)</small>		
26 09 23 00-0766			Photo Controls <small>(26 09 23 00-0765)</small>		
26 09 23 00-0767	EA		Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	90.52	
26 09 23 00-0768	EA		Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	101.26	
26 09 23 00-0769			Connector Node <small>(26 09 23 00-0765)</small>		
26 09 23 00-0770	EA		Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	537.49	3.30

26 10 Medium-Voltage Electrical Distribution (26)

26 11 Substations (26 10)

26 11 13 Primary Unit Substations (26 11)

26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section (26 11 13)

26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard" (26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003	EA		14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	70,877.85	2,128.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,299.19	
26 11 13 00-0004	EA		23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	86,933.64	2,692.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,623.98	
26 11 13 00-0005	EA		34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	98,579.40	2,692.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,623.98	
26 11 13 00-0006	EA		46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	113,415.07	2,692.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,732.25	
26 11 13 00-0007	EA		69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	128,655.53	3,318.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,998.75	

26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers (26 11 13 00-0001)

26 11 13 00-0009	EA		Reclosure Relay, Adjustable, 3 Shot, #179.....	1,898.68	223.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.50	
26 11 13 00-0010	EA		Overcurrent Relay, 1 Phase, #51/51N.....	580.37	162.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.37	
26 11 13 00-0011	EA		Directional Overcurrent Relay, Three-Phase, Device No. 67.....	879.80	162.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.11	
26 11 13 00-0012	EA		Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	695.25	162.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.37	
26 11 13 00-0013	EA		Differential Relay Package, Complete, Device No. 87.....	2,600.64	548.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	331.04	

26 11 13 00-0014 "Switchyard", Substation Transformer Section (26 11 13)

Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range

26 11 13 00-0015 14.4 KV Nominal Primary (26 11 13 00-0014)

26 11 13 00-0016	EA		1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	40,579.52	2,128.79
			<i>For 50 Hz Operation, Add</i>	4,349.87	
			<i>For Forced Air Cooling, Add</i>	4,349.87	
			<i>For External Control Panel, Add</i>	1,087.47	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	362.49	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,812.45	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,531.11	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	5,437.34	
26 11 13 00-0017	EA		2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	46,336.77	2,667.25
			<i>For 50 Hz Operation, Add</i>	4,910.82	
			<i>For Forced Air Cooling, Add</i>	4,910.82	
			<i>For External Control Panel, Add</i>	1,227.70	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	409.23	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,046.17	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	5,115.44	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	6,138.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	71,377.82	3,756.69
<i>For 50 Hz Operation, Add</i>	7,641.47	
<i>For Forced Air Cooling, Add</i>	7,641.47	
<i>For External Control Panel, Add</i>	1,910.37	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	636.79	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,183.95	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	7,959.87	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	9,551.84	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	103,664.54	4,527.30
<i>For 50 Hz Operation, Add</i>	11,267.97	
<i>For Forced Air Cooling, Add</i>	11,267.97	
<i>For External Control Panel, Add</i>	2,816.99	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	939.00	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,694.99	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	11,737.47	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	14,084.96	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	127,691.97	5,858.87
<i>For 50 Hz Operation, Add</i>	13,858.32	
<i>For Forced Air Cooling, Add</i>	13,858.32	
<i>For External Control Panel, Add</i>	3,464.58	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,154.86	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	5,774.30	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	14,435.75	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	17,322.90	
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	45,287.98	2,880.12
<i>For 50 Hz Operation, Add</i>	4,784.96	
<i>For External Control Panel, Add</i>	1,196.24	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	398.75	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,993.74	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,984.34	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	5,981.21	
<i>For Forced Air Cooling, Add</i>	3,189.98	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	51,658.14	2,880.12
<i>For 50 Hz Operation, Add</i>	5,414.56	
<i>For External Control Panel, Add</i>	1,353.64	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	451.21	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,256.07	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	5,640.17	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	6,768.20	
<i>For Forced Air Cooling, Add</i>	3,609.71	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	83,133.28	4,257.58
<i>For 50 Hz Operation, Add</i>	8,936.64	
<i>For External Control Panel, Add</i>	2,234.16	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	744.72	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,723.60	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	9,309.01	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	11,170.81	
<i>For Forced Air Cooling, Add</i>	5,957.76	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	111,502.34	5,858.87
<i>For 50 Hz Operation, Add</i>	11,915.56	
<i>For External Control Panel, Add</i>	2,978.89	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	992.96	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,964.82	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	12,412.05	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	14,894.46	
<i>For Forced Air Cooling, Add</i>	7,943.71	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	138,485.09	5,858.87
<i>For 50 Hz Operation, Add</i>	15,153.49	
<i>For External Control Panel, Add</i>	3,788.37	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	1,262.79	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	6,313.96	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	15,784.89	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	18,941.87	
<i>For Forced Air Cooling, Add</i>	10,102.33	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	56,904.79	3,443.62
<i>For 50 Hz Operation, Add</i>	6,044.16	
<i>For External Control Panel, Add</i>	1,511.04	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	503.68	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,518.40	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,296.00	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	7,555.20	
<i>For Forced Air Cooling, Add</i>	4,029.44	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	68,735.14	5,384.58
<i>For 50 Hz Operation, Add</i>	7,303.35	
<i>For External Control Panel, Add</i>	1,825.84	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	608.61	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,043.06	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	7,607.66	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	9,129.19	
<i>For Forced Air Cooling, Add</i>	4,868.90	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 11 13 00-0030	EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	95,012.94 10,102.37 2,525.59 841.86 4,209.32 10,523.30 12,627.96 6,734.91	5,384.58
26 11 13 00-0031	EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	122,295.37 13,210.73 3,302.68 1,100.89 5,504.47 13,761.18 16,513.41 8,807.15	5,725.71
26 11 13 00-0032	EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	212,057.92 23,572.11 5,893.03 1,964.34 9,821.71 24,554.29 29,465.14 15,714.74	7,323.58
26 11 13 00-0033 46 KV Nominal Primary <small>(26 11 13 00-0014)</small>			
26 11 13 00-0034	EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	87,552.95 9,561.49 2,390.37 796.79 3,983.96 9,959.89 11,951.87 6,374.33	4,007.13
26 11 13 00-0035	EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	98,994.66 10,840.01 2,710.00 903.33 4,516.67 11,291.68 13,550.01 7,226.67	4,007.13
26 11 13 00-0036	EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	137,289.53 15,175.56 3,793.89 1,264.63 6,323.15 15,807.87 18,969.45 10,117.04	5,384.58
26 11 13 00-0037	EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	167,583.74 18,235.21 4,558.80 1,519.60 7,598.01 18,995.01 22,794.02 12,156.81	7,323.58
26 11 13 00-0038	EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	239,107.53 26,818.07 6,704.52 2,234.84 11,174.19 27,935.49 33,522.58 17,878.71	7,323.58
26 11 13 00-0039 69 KV Nominal Primary <small>(26 11 13 00-0014)</small>			
26 11 13 00-0040	EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	126,391.48 14,127.63 3,531.91 1,177.30 5,886.51 14,716.28 17,659.54 9,418.42	4,257.58
26 11 13 00-0041	EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	145,046.77 16,106.43 4,026.61 1,342.20 6,711.01 16,777.53 20,133.03 10,737.62	5,384.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	199,882.63 22,686.73 5,671.68 1,890.56 9,452.80 23,632.01 28,358.41 15,124.49	5,384.58
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	211,273.11 23,477.94 5,869.48 1,956.49 9,782.47 24,456.18 29,347.42 15,651.96	7,323.58
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	277,320.39 31,403.61 7,850.90 2,616.97 13,084.84 32,712.09 39,254.51 20,935.74	7,323.58
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV <small>(26 11 13)</small>		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	76,152.96	1,050.34
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	83,641.65	1,050.34
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	95,196.45	1,304.69
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	88,915.72	1,568.83
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	100,228.97	1,568.83
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	114,336.74	1,822.64
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	117,809.87	2,082.36
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	131,895.52	2,082.36
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	138,198.99	2,338.52
26 11 16 Secondary Unit Substations <small>(26 11)</small>		
26 11 16 11 Secondary Unit Substations with Switchgear Secondary <small>(26 11 16)</small>		
26 11 16 11-0001 Substation Primary Incoming Section <small>(26 11 16 11)</small>		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	38,977.65	1,542.39
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	44,980.16	1,542.39
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	55,133.82	1,542.39
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	59,040.30	1,542.39
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches <small>(26 11 16 11-0001)</small>		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section	24,282.11	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section.....	2,363.55	
26 11 16 11-0011 Oil Filled Substation Transformers <small>(26 11 16 11)</small> Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	42,024.60 2,810.24 1,204.39 401.46	939.17
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	62,217.79 4,197.46 1,798.91 599.64	1,127.01
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	70,466.37 4,757.33 2,038.86 679.62	1,252.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	83,216.07	1,565.29
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,605.99	
For Control Power Transformer On Fans And Auxiliary, Add	2,402.57	
For Internal Mounted Current Transformer And Linear Coupler, Add	800.86	
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	92,389.23	1,940.95
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,195.51	
For Control Power Transformer On Fans And Auxiliary, Add	2,655.22	
For Internal Mounted Current Transformer And Linear Coupler, Add	885.07	
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	98,188.80	2,379.23
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,540.12	
For Control Power Transformer On Fans And Auxiliary, Add	2,802.91	
For Internal Mounted Current Transformer And Linear Coupler, Add	934.30	
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	114,731.23	1,252.23
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	7,627.97	
For Control Power Transformer On Fans And Auxiliary, Add	3,269.13	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,089.71	
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	122,122.71	3,130.57
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	8,110.31	
For Control Power Transformer On Fans And Auxiliary, Add	3,475.85	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,158.62	
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	136,574.62	3,443.62
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	9,078.12	
For Control Power Transformer On Fans And Auxiliary, Add	3,890.62	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,296.87	
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	158,280.19	3,819.30
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	10,544.91	
For Control Power Transformer On Fans And Auxiliary, Add	4,519.25	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,506.42	
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	173,865.09	4,163.65
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	11,587.64	
For Control Power Transformer On Fans And Auxiliary, Add	4,966.13	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,655.38	
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	40,021.77	939.17
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,670.04	
For Control Power Transformer On Fans And Auxiliary, Add	1,144.30	
For Internal Mounted Current Transformer And Linear Coupler, Add	381.43	
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	61,192.67	939.17
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,152.00	
For Control Power Transformer On Fans And Auxiliary, Add	1,779.43	
For Internal Mounted Current Transformer And Linear Coupler, Add	593.14	
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	70,422.04	1,252.23
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,754.23	
For Control Power Transformer On Fans And Auxiliary, Add	2,037.53	
For Internal Mounted Current Transformer And Linear Coupler, Add	679.18	
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	83,292.32	1,565.29
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,611.32	
For Control Power Transformer On Fans And Auxiliary, Add	2,404.85	
For Internal Mounted Current Transformer And Linear Coupler, Add	801.62	
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	100,171.81	1,940.95
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,740.29	
For Control Power Transformer On Fans And Auxiliary, Add	2,888.70	
For Internal Mounted Current Transformer And Linear Coupler, Add	962.90	
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	107,879.51	2,379.23
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	7,218.47	
For Control Power Transformer On Fans And Auxiliary, Add	3,093.63	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,031.21	
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	119,206.03	2,880.12
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	7,941.20	
For Control Power Transformer On Fans And Auxiliary, Add	3,403.37	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,134.46	
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	129,830.97	3,130.57
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	8,649.89	
For Control Power Transformer On Fans And Auxiliary, Add	3,707.09	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,235.70	
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	146,542.57	3,443.62
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	9,775.87	
For Control Power Transformer On Fans And Auxiliary, Add	4,189.66	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,396.55	
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers <small>(26 11 16 11-0011)</small>		
26 11 16 11-0035 EA Sudden Pressure Relay	12,168.18	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV)	24,157.96	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole)	15,907.09	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close Fuse Type - CLE (80E To 125 X).....	88,276.35	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	82,591.32	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab <small>(26 11 16 11-0011)</small>		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,950.14	1,371.07
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	11,023.09	1,580.87
26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	74,470.83	1,001.78
For Gas Filled Transformers, Add	43,480.36	
For Single Phase Transformers, Deduct	-1,811.68	
For Dry Type Unit, Add	16,143.16	
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	74,596.06	1,064.39
For Gas Filled Transformers, Add	43,480.36	
For Single Phase Transformers, Deduct	-1,811.68	
For Dry Type Unit, Add	16,155.68	
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	75,915.65	1,252.23
For Gas Filled Transformers, Add	44,046.72	
For Single Phase Transformers, Deduct	-1,835.28	
For Dry Type Unit, Add	16,400.91	
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	83,799.32	1,377.45
For Gas Filled Transformers, Add	48,626.65	
For Single Phase Transformers, Deduct	-2,026.11	
For Dry Type Unit, Add	18,105.26	
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	92,832.77	1,627.90
For Gas Filled Transformers, Add	53,746.18	
For Single Phase Transformers, Deduct	-2,239.42	
For Dry Type Unit, Add	20,032.51	
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	107,566.98	1,878.34
For Gas Filled Transformers, Add	62,286.17	
For Single Phase Transformers, Deduct	-2,595.26	
For Dry Type Unit, Add	23,213.93	
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	124,759.09	2,254.01
For Gas Filled Transformers, Add	72,150.64	
For Single Phase Transformers, Deduct	-3,006.28	
For Dry Type Unit, Add	26,906.04	
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	147,750.84	2,504.45
For Gas Filled Transformers, Add	85,645.16	
For Single Phase Transformers, Deduct	-3,568.55	
For Dry Type Unit, Add	31,904.12	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	192,559.37	2,629.68
For Gas Filled Transformers, Add	112,380.01	
For Single Phase Transformers, Deduct	-4,682.50	
For Dry Type Unit, Add	41,731.94	
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	71,899.17	1,001.78
For Gas Filled Transformers, Add	41,937.37	
For Single Phase Transformers, Deduct	-1,747.39	
For Dry Type Unit, Add	15,577.39	
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	74,596.06	1,064.39
For Gas Filled Transformers, Add	43,480.36	
For Single Phase Transformers, Deduct	-1,811.68	
For Dry Type Unit, Add	16,155.68	
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	75,915.65	1,252.23
For Gas Filled Transformers, Add	44,046.72	
For Single Phase Transformers, Deduct	-1,835.28	
For Dry Type Unit, Add	16,400.91	
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	83,799.32	1,377.45
For Gas Filled Transformers, Add	48,626.65	
For Single Phase Transformers, Deduct	-2,026.11	
For Dry Type Unit, Add	18,105.26	
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	92,832.77	1,627.90
For Gas Filled Transformers, Add	53,746.18	
For Single Phase Transformers, Deduct	-2,239.42	
For Dry Type Unit, Add	20,032.51	
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	107,566.98	1,878.34
For Gas Filled Transformers, Add	62,286.17	
For Single Phase Transformers, Deduct	-2,595.26	
For Dry Type Unit, Add	23,213.93	
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	124,759.09	2,254.01
For Gas Filled Transformers, Add	72,150.64	
For Single Phase Transformers, Deduct	-3,006.28	
For Dry Type Unit, Add	26,906.04	
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	147,750.84	2,504.45
For Gas Filled Transformers, Add	85,645.16	
For Single Phase Transformers, Deduct	-3,568.55	
For Dry Type Unit, Add	31,904.12	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0069	EA		2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	192,559.37 112,380.01 -4,682.50 41,731.94	2,629.68
26 11 16 11-0070	EA		2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	211,584.41 123,644.77 -5,151.87 45,887.39	2,754.90
26 11 16 11-0071	EA		3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	236,488.59 138,437.00 -5,768.21 51,336.26	2,880.12
26 11 16 11-0072	EA		3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	273,128.75 160,270.84 -6,677.95 59,367.04	3,005.34
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>					
26 11 16 11-0074	EA		112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	80,042.98 46,673.38 -1,944.72 17,338.97	1,127.01
26 11 16 11-0075	EA		150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	82,724.99 48,207.46 -2,008.64 17,913.99	1,189.62
26 11 16 11-0076	EA		225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	88,340.60 51,351.42 -2,139.64 19,104.34	1,377.45
26 11 16 11-0077	EA		300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	93,199.22 54,116.33 -2,254.85 20,143.19	1,502.67
26 11 16 11-0078	EA		500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	106,216.51 61,626.16 -2,567.76 22,946.88	1,753.12
26 11 16 11-0079	EA		750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	117,620.94 68,168.29 -2,840.35 25,395.75	2,003.56
26 11 16 11-0080	EA		1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	137,288.09 79,517.77 -3,313.24 29,632.36	2,379.23
26 11 16 11-0081	EA		1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	166,738.73 96,887.62 -4,036.98 36,051.40	2,629.68
26 11 16 11-0082	EA		2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	202,159.95 117,990.09 -4,916.25 43,814.01	2,754.90
26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small>					
26 11 16 11-0084	EA		112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	80,042.98 46,673.38 -1,944.72 17,338.97	1,127.01
26 11 16 11-0085	EA		150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	82,724.99 48,207.46 -2,008.64 17,913.99	1,189.62
26 11 16 11-0086	EA		225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	88,340.60 51,351.42 -2,139.64 19,104.34	1,377.45
26 11 16 11-0087	EA		300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	93,199.22 54,116.33 -2,254.85 20,143.19	1,502.67
26 11 16 11-0088	EA		500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	106,216.51 61,626.16 -2,567.76 22,946.88	1,753.12
26 11 16 11-0089	EA		750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	102,755.86 59,249.24 -2,468.72 22,125.43	2,003.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	106,749.44	2,379.23
For Gas Filled Transformers, Add	61,194.58	
For Single Phase Transformers, Deduct	-2,549.77	
For Dry Type Unit, Add	22,913.86	
26 11 16 11-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	131,750.18	2,629.68
For Gas Filled Transformers, Add	75,894.49	
For Single Phase Transformers, Deduct	-3,162.27	
For Dry Type Unit, Add	28,353.92	
26 11 16 11-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	156,810.17	2,754.90
For Gas Filled Transformers, Add	90,780.22	
For Single Phase Transformers, Deduct	-3,782.51	
For Dry Type Unit, Add	33,837.06	
26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	175,607.56	2,880.12
For Gas Filled Transformers, Add	101,908.39	
For Single Phase Transformers, Deduct	-4,246.18	
For Dry Type Unit, Add	37,942.43	
26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	206,758.09	3,005.34
For Gas Filled Transformers, Add	120,448.44	
For Single Phase Transformers, Deduct	-5,018.69	
For Dry Type Unit, Add	44,765.50	
26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	254,425.40	3,130.57
For Gas Filled Transformers, Add	148,898.56	
For Single Phase Transformers, Deduct	-6,204.11	
For Dry Type Unit, Add	55,222.25	

26 12 Medium-Voltage Transformers ^(26 10)

26 12 13 Liquid-Filled, Medium-Voltage Transformers ^(26 12)

26 12 13 00-0001 Removal And Relocation Of Transformers ^(26 12 13)

26 12 13 00-0002 EA Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer	1,299.19	
26 12 13 00-0003 EA Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,390.86	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers ^(26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA ^(26 12 13 00-0004)

26 12 13 00-0006 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	8,644.53	518.96
26 12 13 00-0007 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	10,331.33	648.70
26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	11,971.96	778.43
26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	15,550.91	973.05
26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	18,438.39	1,167.66
26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	26,002.30	1,362.26
26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	30,785.53	1,621.75

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA ^(26 12 13 00-0004)

26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	8,644.53	518.96
26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	10,540.21	648.70
26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	11,971.96	778.43
26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	15,550.91	973.05
26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,438.39	1,167.66
26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	23,855.30	1,362.26
26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	29,695.25	1,621.75

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN ^(26 12 13 00-0004)

26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	8,400.84	518.96
26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	9,669.89	648.70
26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	11,317.79	778.43
26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	15,399.95	973.05
26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	17,800.99	1,167.66
26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	24,257.86	1,362.26
26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	29,795.89	1,621.75

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN ^(26 12 13 00-0004)

26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	9,532.26	518.96
26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	10,836.12	648.70
26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	14,373.10	778.43
26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	18,119.78	973.05
26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	20,849.97	1,167.66
26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	28,767.08	1,362.26
26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	37,075.26	1,621.75

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 12 Medium-Voltage Transformers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 12 13 00-0037			Transformer Platforms <small>(26 12 13 00-0004)</small>		
26 12 13 00-0038	EA		Transformer Platforms, 75 - 167 KVA.....	5,743.45	876.39

26 12 13 00-0039			Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0040	EA		10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,563.99	518.96
26 12 13 00-0041	EA		15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,772.90	648.70
26 12 13 00-0042	EA		25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,374.34	778.43
26 12 13 00-0043	EA		37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,118.25	973.05
26 12 13 00-0044	EA		50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	20,979.17	1,232.52
26 12 13 00-0045	EA		75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	28,770.88	1,362.26
26 12 13 00-0046	EA		100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	37,075.26	1,621.75
26 12 13 00-0047	EA		167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	49,693.23	2,075.83
26 12 13 00-0048	EA		250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	63,463.10	2,789.39
26 12 13 00-0049	EA		333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	74,372.06	3,243.48
26 12 13 00-0050	EA		500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	95,145.79	3,502.97

26 12 13 00-0051			Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL <small>(26 12 13 00-0004)</small>		
26 12 13 00-0052	EA		10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	8,644.53	635.46
26 12 13 00-0053	EA		15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	10,331.33	794.26
26 12 13 00-0054	EA		25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	11,971.43	952.16
26 12 13 00-0055	EA		37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	15,552.16	1,193.21
26 12 13 00-0056	EA		50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	18,437.18	1,429.34
26 12 13 00-0057	EA		75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	26,000.67	1,664.69
26 12 13 00-0058	EA		100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	30,785.53	1,985.79

26 12 13 00-0059			Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060	EA		10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,644.53	635.46
26 12 13 00-0061	EA		15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,540.21	794.26
26 12 13 00-0062	EA		25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,971.43	952.16
26 12 13 00-0063	EA		37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	15,552.16	1,193.21
26 12 13 00-0064	EA		50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,437.18	1,429.34
26 12 13 00-0065	EA		75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	23,853.67	1,664.69
26 12 13 00-0066	EA		100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	29,695.25	1,985.79

26 12 13 00-0067			Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
26 12 13 00-0068			Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069	EA		10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,813.69	518.96
26 12 13 00-0070	EA		15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,085.90	648.70
26 12 13 00-0071	EA		25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,308.88	778.43
26 12 13 00-0072	EA		37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,234.49	973.05
26 12 13 00-0073	EA		50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	15,389.47	1,167.66
26 12 13 00-0074	EA		75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	24,872.74	1,362.26
26 12 13 00-0075	EA		100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	28,561.93	1,621.75

26 12 13 00-0076			Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077	EA		10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,259.85	518.96
26 12 13 00-0078	EA		15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,389.64	648.70
26 12 13 00-0079	EA		25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,992.39	778.43
26 12 13 00-0080	EA		37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,601.53	973.05
26 12 13 00-0081	EA		50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,519.15	1,167.66
26 12 13 00-0082	EA		75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,707.93	1,362.26
26 12 13 00-0083	EA		100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,397.13	1,621.75

26 12 13 00-0084			3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
26 12 13 00-0085			Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small> Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086	EA		112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	31,519.31	1,816.35
26 12 13 00-0087	EA		150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	39,775.69	1,946.09
26 12 13 00-0088	EA		225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	52,911.47	2,465.05
26 12 13 00-0089	EA		300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	69,177.41	3,113.74
26 12 13 00-0090	EA		500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	102,968.67	3,502.97
26 12 13 00-0091	EA		750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	157,796.42	4,670.61

26 12 16 Dry-Type, Medium-Voltage Transformers (26 12)



Electrical	26	26
Medium-Voltage Electrical Distribution	26 10	
Medium-Voltage Transformers	26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 16 00-0001 Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	519.67	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	2,309.66	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small>		
Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL - Oil Filled <small>(26 12 19 00-0001)</small>		
Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small>		
Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	20,952.23	626.12
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	22,695.27	751.34
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	27,081.70	876.56
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	33,718.51	939.17
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	38,372.80	1,001.78
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	50,210.49	1,314.83
26 12 19 00-0010 Factory Modifications Material Cost Only <small>(26 12 19 00-0002)</small>		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications	4,717.06	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	4,956.33	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications	5,451.97	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer <small>(26 12 19 00-0001)</small>		
Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015 Primary, 4.16/4.8 KVA Ground Y Or Delta <small>(26 12 19 00-0014)</small>		
Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	26,675.81	626.12
26 12 19 00-0017 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	29,904.46	626.12
26 12 19 00-0018 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	32,020.13	857.78
26 12 19 00-0019 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	40,225.50	857.78
26 12 19 00-0020 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,198.99	1,127.01
26 12 19 00-0021 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	54,149.24	1,127.01
26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	88,182.30	1,565.29
26 12 19 00-0023 Factory Modifications Material Cost Only <small>(26 12 19 00-0014)</small>		
26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications	6,289.42	
26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications	1,593.56	
26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	4,956.33	
26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications	8,066.86	
26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications	2,153.44	
26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	1,862.90	
26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta <small>(26 12 19 00-0014)</small>		
Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	28,993.83	626.12
26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	30,688.08	626.12
26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	31,716.92	857.78
26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	38,391.64	857.78
26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	49,029.69	1,127.01
26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	60,928.59	1,127.13

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 12 Medium-Voltage Transformers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0037	EA		250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	77,387.16	1,565.29
26 12 19 00-0038			Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001) Note: Conventional type.		
26 12 19 00-0039			13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038) Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA		10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	19,232.60	440.68
26 12 19 00-0041	EA		37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,699.65	619.71
26 12 19 00-0042	EA		50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,431.02	991.54
26 12 19 00-0043	EA		100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	66,044.65	991.54
26 12 19 00-0044	EA		167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	91,245.71	1,625.02
26 12 19 00-0045	EA		250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	123,220.94	1,625.02
26 12 19 00-0046			Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)		
26 12 19 00-0047			7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0048	EA		10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,615.43	468.23
26 12 19 00-0049	EA		15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,302.61	468.23
26 12 19 00-0050	EA		25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,006.56	661.02
26 12 19 00-0051	EA		37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,790.25	661.02
26 12 19 00-0052	EA		50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	35,439.51	895.14
26 12 19 00-0053	EA		100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	64,468.47	1,377.13
26 12 19 00-0054	EA		167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	90,011.37	1,377.13
26 12 19 00-0055	EA		250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	121,315.62	1,721.42
26 12 19 00-0056			7.2 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0057	EA		10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,615.43	468.23
26 12 19 00-0058	EA		15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,303.25	468.23
26 12 19 00-0059	EA		25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,006.56	661.02
26 12 19 00-0060	EA		37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,790.25	661.02
26 12 19 00-0061	EA		50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	35,439.51	895.14
26 12 19 00-0062	EA		75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	55,267.93	1,211.88
26 12 19 00-0063	EA		100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	64,468.47	1,211.88
26 12 19 00-0064	EA		167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	90,011.37	1,528.63
26 12 19 00-0065	EA		250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	121,315.62	1,721.42
26 12 19 00-0066			2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0067	EA		10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,552.17	468.23
26 12 19 00-0068	EA		15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	22,413.27	468.23
26 12 19 00-0069	EA		25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	26,508.97	661.02
26 12 19 00-0070	EA		37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	33,986.99	661.02
26 12 19 00-0071	EA		50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	39,114.94	895.14
26 12 19 00-0072	EA		75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	60,853.94	1,211.88
26 12 19 00-0073	EA		100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	71,236.60	1,211.88
26 12 19 00-0074	EA		167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	99,511.02	1,528.63
26 12 19 00-0075	EA		250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	134,193.52	1,721.42
26 12 19 00-0076			2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0077	EA		10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,615.43	468.23
26 12 19 00-0078	EA		15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,302.61	468.23
26 12 19 00-0079	EA		25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,006.56	899.41
26 12 19 00-0080	EA		37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,790.25	1,211.88
26 12 19 00-0081	EA		50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	35,439.51	895.14
26 12 19 00-0082	EA		75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	55,076.97	1,211.88
26 12 19 00-0083	EA		100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	64,455.81	1,211.88
26 12 19 00-0084			2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0085	EA		10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,615.43	468.23
26 12 19 00-0086	EA		15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,302.61	468.23
26 12 19 00-0087	EA		25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,006.56	661.02
26 12 19 00-0088	EA		37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,790.25	661.02
26 12 19 00-0089	EA		50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	35,439.51	895.14
26 12 19 00-0090	EA		75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	55,076.97	1,211.88
26 12 19 00-0091	EA		100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	64,455.81	1,211.88
26 12 19 00-0092			2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0093	EA		10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	15,605.32	482.00
26 12 19 00-0094	EA		15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,903.02	537.09
26 12 19 00-0095	EA		25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,724.49	592.16
26 12 19 00-0096	EA		37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	26,153.57	826.28
26 12 19 00-0097	EA		50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	29,026.83	964.00
26 12 19 00-0098	EA		75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	40,737.13	1,129.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 12 19 00-0099	EA	100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	49,232.34	1,294.50
26 12 19 00-0100	EA	167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	78,228.20	1,652.56
26 12 19 00-0101	EA	250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	109,418.51	1,859.13

26 13 Medium-Voltage Switchgear (26 10)

26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)

26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section (26 13 16)

Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.

26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0003	EA	1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	16,301.57	1,432.22
		<i>For Weatherproofing, Add</i>	3,385.51	
26 13 16 00-0004	EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	17,122.54	1,432.22
		<i>For Weatherproofing, Add</i>	3,566.13	
26 13 16 00-0005	EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	23,365.84	1,824.70
		<i>For Weatherproofing, Add</i>	4,898.88	
26 13 16 00-0006	EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	31,911.57	1,824.70
		<i>For Weatherproofing, Add</i>	6,748.23	
26 13 16 00-0007	EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	45,841.62	2,203.42
		<i>For Weatherproofing, Add</i>	9,776.18	
26 13 16 00-0008	EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	41,781.66	2,203.42
		<i>For Weatherproofing, Add</i>	8,867.39	

26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0010	EA	1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	24,423.28	1,652.56
		<i>For Weatherproofing, Add</i>	5,151.51	
26 13 16 00-0011	EA	2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	29,969.51	2,065.70
		<i>For Weatherproofing, Add</i>	6,303.80	
26 13 16 00-0012	EA	3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	42,224.98	2,478.84
		<i>For Weatherproofing, Add</i>	8,951.25	

26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0014	EA	1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	23,521.29	1,652.56
		<i>For Weatherproofing, Add</i>	4,934.88	
26 13 16 00-0015	EA	1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	32,445.48	1,652.56
		<i>For Weatherproofing, Add</i>	6,858.59	
26 13 16 00-0016	EA	1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	47,501.02	2,203.42
		<i>For Weatherproofing, Add</i>	10,125.65	
26 13 16 00-0017	EA	2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	29,584.72	2,203.42
		<i>For Weatherproofing, Add</i>	6,202.61	
26 13 16 00-0018	EA	2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	43,084.49	2,754.27
		<i>For Weatherproofing, Add</i>	9,133.07	
26 13 16 00-0019	EA	2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	60,412.41	2,754.27
		<i>For Weatherproofing, Add</i>	12,903.58	
26 13 16 00-0020	EA	3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	41,451.10	2,754.27
		<i>For Weatherproofing, Add</i>	8,762.21	
26 13 16 00-0021	EA	3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	57,600.40	2,754.27
		<i>For Weatherproofing, Add</i>	12,275.38	
26 13 16 00-0022	EA	3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	74,761.38	2,754.27
		<i>For Weatherproofing, Add</i>	16,013.27	

26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0024	EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	7,272.94	902.02
		<i>For Weatherproofing, Add</i>	1,473.54	
26 13 16 00-0025	EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	9,498.62	902.02
		<i>For Weatherproofing, Add</i>	1,963.19	
26 13 16 00-0026	EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	10,266.20	1,198.11
		<i>For Weatherproofing, Add</i>	2,091.20	
26 13 16 00-0027	EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	12,721.70	1,480.42
		<i>For Weatherproofing, Add</i>	2,591.46	
26 13 16 00-0028	EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	17,226.30	1,480.42
		<i>For Weatherproofing, Add</i>	3,582.48	

26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 13	Medium-Voltage Switchgear



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0030	EA		1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,220.28	1,377.13
			<i>For Weatherproofing, Add</i>	1,884.37	
26 13 16 00-0031	EA		2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,068.61	1,377.13
			<i>For Weatherproofing, Add</i>	2,470.42	
26 13 16 00-0032	EA		3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	18,477.92	1,377.13
			<i>For Weatherproofing, Add</i>	3,840.43	
26 13 16 00-0033			13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0034	EA		1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,491.96	1,170.57
			<i>For Weatherproofing, Add</i>	1,925.12	
26 13 16 00-0035	EA		1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,136.10	1,170.57
			<i>For Weatherproofing, Add</i>	2,066.83	
26 13 16 00-0036	EA		1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,558.65	1,445.99
			<i>For Weatherproofing, Add</i>	2,999.53	
26 13 16 00-0037	EA		2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,908.04	1,735.20
			<i>For Weatherproofing, Add</i>	2,596.34	
26 13 16 00-0038	EA		2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,943.49	1,735.20
			<i>For Weatherproofing, Add</i>	3,264.13	
26 13 16 00-0039	EA		2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	18,327.07	2,024.39
			<i>For Weatherproofing, Add</i>	3,747.59	
26 13 16 00-0040	EA		3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	17,102.69	2,313.59
			<i>For Weatherproofing, Add</i>	3,438.01	
26 13 16 00-0041	EA		3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	19,182.67	2,313.59
			<i>For Weatherproofing, Add</i>	3,895.61	
26 13 16 00-0042	EA		3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	23,672.85	2,589.02
			<i>For Weatherproofing, Add</i>	4,842.88	
26 13 16 00-0043			Accessories For Substation Secondary Distribution Sections <small>(26 13 16 00-0001)</small>		
26 13 16 00-0044	EA		1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	4,571.65	872.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	523.63	
26 13 16 00-0045	EA		2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	5,733.54	968.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	581.07	
26 13 16 00-0046	EA		3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	7,498.84	1,165.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	699.05	
26 13 16 00-0047	EA		3-Phase Pothead Termination Accessories, Secondary Distribution Section.....	4,589.45	1,752.13
26 13 16 00-0048	EA		5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	5,836.07	111.88
26 13 16 00-0049	EA		5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,802.11	111.88
26 13 16 00-0050	EA		5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	14,304.49	111.88
26 13 16 00-0051	EA		15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,237.29	111.88
26 13 16 00-0052	EA		15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	12,269.34	111.88
26 13 16 00-0053	EA		15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	16,708.56	111.88
26 13 16 00-0054	EA		6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,632.51	111.88
26 13 16 00-0055	EA		9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,978.08	111.88
26 13 16 00-0056	EA		15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	4,534.10	111.88
26 13 16 00-0057	EA		Overcurrent Phase Protection, Time And Instantaneous Device 67.....	2,894.96	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0058	EA		AC Ammeter With Switch.....	1,120.39	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0059	EA		AC Voltmeter With Switch And Potential Transformer.....	1,120.39	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0060	EA		Indicating Wattmeter.....	1,665.84	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0061	EA		Indicating Varmeter.....	1,968.45	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0062	EA		Indicating Watt-hour Meter, 2 Element.....	1,228.74	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0063	EA		Ground Protection, Time Or Instantaneous Device 67N.....	2,749.36	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 13 16 00-0064	EA		Differential Generator Protection Single Phase NEMA Device 87.....	5,516.65	111.88
26 13 16 00-0065	EA		Current Transformers 5 And 15 KV Single Secondary.....	753.34	111.88
26 13 16 00-0066	EA		Potential Transformers 5 KV And 15 KV With Primary Fuses.....	3,674.84	111.88
26 13 19			Medium-Voltage Vacuum Interrupter Switchgear <small>(26 13)</small>		
26 13 19 00-0001			Vacuum Circuit Breakers 13.8 KV <small>(26 13 19)</small>		
26 13 19 00-0002	EA		1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	59,455.47	1,721.42
26 13 19 00-0003	EA		1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	65,643.08	2,175.88
26 13 19 00-0004	EA		1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,521.14	2,175.88
26 13 19 00-0005	EA		2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	68,169.96	1,721.42
26 13 19 00-0006	EA		2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	76,716.04	1,721.42
26 13 19 00-0007	EA		2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	87,435.90	2,024.39
26 13 19 00-0008	EA		3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	90,186.98	2,313.59
26 13 19 00-0009	EA		3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	98,776.47	2,313.59
26 13 19 00-0010	EA		3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	107,920.37	2,602.79
26 13 29			Medium-Voltage Compartmentalized Switchgear <small>(26 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0001 Substation Secondary Distribution Section <small>(26 13 29)</small> Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker <small>(26 13 29 00-0001)</small> Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	18,906.23	1,089.96
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	29,788.34	1,647.92
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	40,325.50	2,024.22
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	67,187.49	2,348.61
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	86,415.07	2,673.01
26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker <small>(26 13 29 00-0001)</small>		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,365.68	330.88
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,666.74	330.88
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,647.71	486.59
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	18,112.19	486.59
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	30,275.81	713.67
26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering <small>(26 13 29 00-0001)</small> Note: No provisions for future breaker.		
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	9,125.93	369.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.46	
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	11,485.70	369.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	248.23	
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	14,857.89	570.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	356.84	
26 13 29 00-0018 Accessories For Substation Secondary Distribution <small>(26 13 29 00-0001)</small>		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section.....	5,144.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section.....	3,962.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	12,948.50	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	12,948.50	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	17,185.12	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	22,313.66	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	9,538.50	127.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.53	
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	26,627.18	1,889.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,133.75	
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	5,768.54	111.88
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	6,806.64	111.88
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	3,642.40	55.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.56	
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	28,073.98	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	3,464.01	55.94
26 18 Medium-Voltage Circuit Protection Devices <small>(26 10)</small>		
26 18 36 Medium-Voltage Enclosed Fuses <small>(26 18)</small>		
26 18 36 00-0001 Sectionalizing Switch <small>(26 18 36)</small>		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units <small>(26 18 36 00-0001)</small> Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders <small>(26 18 36 00-0002)</small> Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	85,207.56	939.17
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	95,878.77	939.17
26 19 High-Voltage Circuit Protection <small>(26 10)</small>		
26 19 18 Protection Devices <small>(26 19)</small>		
26 19 18 00-0001 Primary Fuse Cutouts <small>(26 19 18)</small> Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 19 18 00-0002 Non-Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 19 18 00-0001)</small> Note: Includes the fuse and cut-out switch.		
26 19 18 00-0003 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 19 18 00-0002)</small>		
26 19 18 00-0004 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	768.58	344.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.26	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 19 High-Voltage Circuit Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 18 00-0005	EA		25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	906.29 206.57	344.29
26 19 18 00-0006	EA		40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,043.54 247.75	344.29
26 19 18 00-0007	EA		100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,064.33 247.89	344.29
26 19 18 00-0008	EA		200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,064.33 247.89	344.29
26 19 18 00-0009			17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 19 18 00-0002)</small>		
26 19 18 00-0010	EA		15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	768.58 165.26	275.43
26 19 18 00-0011			17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting <small>(26 19 18 00-0002)</small>		
26 19 18 00-0012	EA		15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	796.05 165.26	275.43
26 19 18 00-0013			Fuseholders <small>(26 19 18 00-0002)</small> Note: Including current limiting fuse.		
26 19 18 00-0014	EA		15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	652.86 165.26	344.29
26 19 18 00-0015	EA		25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	790.57 206.57	344.29
26 19 18 00-0016	EA		40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	927.82 247.75	344.29
26 19 18 00-0017	EA		100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	662.36 165.26	344.29
26 19 18 00-0018	EA		200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	800.07 206.57	344.29
26 19 18 00-0019	EA		15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	652.86 165.26	275.43
26 19 18 00-0020			Accessories <small>(26 19 18 00-0002)</small>		
26 19 18 00-0021	EA		Hot Line Clamp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.19 20.66	30.98
26 19 18 00-0022	EA		Stirrup	105.91	30.98
26 19 18 00-0023			Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 19 18 00-0001)</small> Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 19 18 00-0024			8.3 KV-95 KV BIL Loadbreak Current Limiting <small>(26 19 18 00-0023)</small>		
26 19 18 00-0025	EA		15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	982.39 165.26	344.29
26 19 18 00-0026	EA		25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,120.10 206.57	344.29
26 19 18 00-0027	EA		40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,257.35 247.75	344.29
26 19 18 00-0028	EA		100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,298.06 247.89	344.29
26 19 18 00-0029	EA		200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,298.06 247.89	344.29
26 19 18 00-0030			17.1 KV-95 KV BIL Loadbreak Current Limiting <small>(26 19 18 00-0023)</small>		
26 19 18 00-0031	EA		15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	982.39 165.26	275.43
26 19 18 00-0032			17.1 KV-125 KV BIL Loadbreak Current Limiting <small>(26 19 18 00-0023)</small>		
26 19 18 00-0033	EA		15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	982.39 165.26	275.43
26 19 18 00-0034			Fuseholders <small>(26 19 18 00-0023)</small> Note: Includes current limiting fuses.		
26 19 18 00-0035	EA		15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	662.66 165.26	344.29
26 19 18 00-0036	EA		25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	800.37 206.57	344.29
26 19 18 00-0037	EA		40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	937.62 247.75	344.29
26 19 18 00-0038	EA		15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	662.66 165.26	344.29
26 19 18 00-0039			Pole Mounted Capacitors <small>(26 19 18 00-0023)</small>		
26 19 18 00-0040	EA		Capacitors - Pole Mounted 6 KVAR	1,773.87	277.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 19 80 Transmission and Distribution Accessories (26 19)

26 19 80 60 Structure Assemblies (26 19 80)

26 19 80 60-0001 Pole Structure Assemblies (26 19 80 60)

26 19 80 60-0002 5 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0003	EA	Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	562.83	261.66
26 19 80 60-0004	EA	Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	940.51	440.68
26 19 80 60-0005	EA	Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,073.54	344.29
26 19 80 60-0006	EA	Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	613.61	179.03
26 19 80 60-0007	EA	Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	778.21	247.89
26 19 80 60-0008	EA	Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,360.28	495.77
26 19 80 60-0009	EA	Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,067.53	371.82
26 19 80 60-0010	EA	Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,950.09	743.66
26 19 80 60-0011	EA	Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,216.46	840.05
26 19 80 60-0012	EA	Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,211.23	413.14
26 19 80 60-0013	EA	Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,026.82	440.68
26 19 80 60-0014	EA	Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,927.66	895.14
26 19 80 60-0015	EA	Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,471.56	537.09
26 19 80 60-0016	EA	Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	918.08	385.59
26 19 80 60-0017	EA	Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,725.08	784.97
26 19 80 60-0018	EA	Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,358.03	399.37

26 19 80 60-0019 15 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0020	EA	Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	590.29	261.66
26 19 80 60-0021	EA	Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	979.74	440.68
26 19 80 60-0022	EA	Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,206.92	344.29
26 19 80 60-0023	EA	Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	660.68	179.03
26 19 80 60-0024	EA	Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	844.90	234.11
26 19 80 60-0025	EA	Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,493.66	495.77
26 19 80 60-0026	EA	Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,165.61	371.82
26 19 80 60-0027	EA	Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,150.16	743.66
26 19 80 60-0028	EA	Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,487.14	840.05
26 19 80 60-0029	EA	Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,344.61	413.14
26 19 80 60-0030	EA	Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,077.81	440.68
26 19 80 60-0031	EA	Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,978.65	895.14
26 19 80 60-0032	EA	Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,573.56	537.09
26 19 80 60-0033	EA	Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	969.07	371.82
26 19 80 60-0034	EA	Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,776.07	784.97
26 19 80 60-0035	EA	Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,460.03	482.00

26 19 80 60-0036 25 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0037	EA	Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,811.44	413.14
26 19 80 60-0038	EA	Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,110.26	206.57
26 19 80 60-0039	EA	Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,609.69	316.74
26 19 80 60-0040	EA	Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,111.53	647.25
26 19 80 60-0041	EA	Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,016.80	482.00
26 19 80 60-0042	EA	Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,250.31	950.22
26 19 80 60-0043	EA	Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,095.49	1,074.16
26 19 80 60-0044	EA	Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,174.30	626.59
26 19 80 60-0045	EA	Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,891.88	626.59

26 19 80 60-0046 50 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0047	EA	Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,433.55	564.63
26 19 80 60-0048	EA	Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,324.78	289.20
26 19 80 60-0049	EA	Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,675.22	454.45
26 19 80 60-0050	EA	Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,146.45	922.68
26 19 80 60-0051	EA	Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,412.80	688.57
26 19 80 60-0052	EA	Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	4,633.38	1,377.13
26 19 80 60-0053	EA	Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	5,484.70	1,528.63
26 19 80 60-0054	EA	Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,797.45	743.66
26 19 80 60-0055	EA	Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,815.93	860.71
26 19 80 60-0056	EA	Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,714.67	812.51

26 19 80 60-0057 Overhead To Underground Conversion Structures (26 19 80 60)

Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.

26 19 80 60-0058 5 KV Structures (26 19 80 60-0057)

Note: Excludes pole.

26 19 80 60-0059	EA	(3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,791.85	2,754.27
26 19 80 60-0060	EA	(3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,791.85	2,754.27

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 19 High-Voltage Circuit Protection**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 19 80 60-0061	EA	(4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,791.85	2,754.27
	26 19 80 60-0062	EA	(4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,791.85	2,754.27
26 19 80 60-0063			15 KV Structures <small>(26 19 80 60-0057)</small>		
			Note: Excludes pole.		
	26 19 80 60-0064	EA	(3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,976.44	2,754.27
	26 19 80 60-0065	EA	(3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,976.44	2,754.27
	26 19 80 60-0066	EA	(4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,976.44	2,754.27
	26 19 80 60-0067	EA	(4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,976.44	2,754.27
26 19 80 60-0068			25 KV Structures <small>(26 19 80 60-0057)</small>		
			Note: Excludes pole.		
	26 19 80 60-0069	EA	(3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,177.80	2,754.27
	26 19 80 60-0070	EA	(3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,177.80	2,754.27
	26 19 80 60-0071	EA	(4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,177.80	2,754.27
	26 19 80 60-0072	EA	(4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,177.80	2,754.27
26 19 80 60-0073			Transformer Stations <small>(26 19 80 60)</small>		
			Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 19 80 60-0074			5 KV Station <small>(26 19 80 60-0073)</small>		
	26 19 80 60-0075	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	9,347.08	3,671.45
	26 19 80 60-0076	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	10,476.56	4,131.40
	26 19 80 60-0077	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	11,606.03	4,590.00
	26 19 80 60-0078	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole.....	11,606.03	4,590.00
	26 19 80 60-0079	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....	9,347.08	3,671.45
26 19 80 60-0080			15 KV Stations <small>(26 19 80 60-0073)</small>		
	26 19 80 60-0081	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	9,632.37	3,670.41
	26 19 80 60-0082	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,761.86	4,131.40
	26 19 80 60-0083	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	11,891.33	4,590.00
	26 19 80 60-0084	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole.....	11,891.33	4,590.00
	26 19 80 60-0085	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	9,632.37	3,671.45
26 19 80 60-0086			25 KV Stations <small>(26 19 80 60-0073)</small>		
	26 19 80 60-0087	EA	(Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	9,943.61	3,671.45
	26 19 80 60-0088	EA	(Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	11,073.09	4,131.40
	26 19 80 60-0089	EA	(Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	12,202.56	4,590.00
	26 19 80 60-0090	EA	(Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole.....	12,202.56	4,590.00
	26 19 80 60-0091	EA	(Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	9,943.61	3,671.45
26 20 Low-Voltage Electrical Distribution			<small>(26)</small>		
26 21 Low-Voltage Electrical Service Entrance			<small>(26 20)</small>		
			See CSI section 26 05 13 00-0000 for wire and cables.		
26 21 13 Low-Voltage Overhead Electrical Service Entrance			<small>(26 21)</small>		
26 21 13 00-0001			Service Drop Cable And Weatherheads <small>(26 21 13)</small>		
26 21 13 00-0002			600 Volt Insulated Stranded Conductors <small>(26 21 13 00-0001)</small>		
26 21 13 00-0003			Aluminum Duplex ACSR Neutral <small>(26 21 13 00-0002)</small>		
	26 21 13 00-0004	LF	#6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.50	3.27
	26 21 13 00-0005	LF	#4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.69	3.88
	26 21 13 00-0006	LF	#2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.40	4.38
	26 21 13 00-0007	LF	1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	20.19	5.51
26 21 13 00-0008			Aluminum Triplex ACSR Neutral <small>(26 21 13 00-0002)</small>		
	26 21 13 00-0009	LF	#6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	11.99	3.88
	26 21 13 00-0010	LF	#4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	14.01	4.38
	26 21 13 00-0011	LF	#2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.91	5.51
	26 21 13 00-0012	LF	1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	23.09	6.72
	26 21 13 00-0013	LF	#2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	29.73	8.89
	26 21 13 00-0014	LF	4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	38.92	11.02
	26 21 13 00-0015	LF	336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	57.02	13.12
26 21 13 00-0016			Aluminum Quadruplex ACSR Neutral <small>(26 21 13 00-0002)</small>		
	26 21 13 00-0017	LF	#6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	14.08	4.38
	26 21 13 00-0018	LF	#4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.90	5.51
	26 21 13 00-0019	LF	#2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	23.29	7.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	31.53	8.89
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	35.28	9.83
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	41.92	11.02
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	48.82	13.12
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	66.93	14.49
26 21 13 00-0025 Weatherproof Conduit Hubs <small>(26 21 13 00-0002)</small>		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	56.75	21.55
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	64.74	24.49
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	75.18	27.43
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	104.83	36.73
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	115.28	39.67
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs	148.85	46.04
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs	195.34	51.92
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs	252.17	61.22
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs	446.87	122.44
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized <small>(26 21 13 00-0002)</small>		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service	62.88	21.55
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service	72.07	24.49
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	82.42	27.43
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	110.73	36.73
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	124.93	39.67
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service	163.20	46.04
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service	270.58	51.92
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service	308.33	61.22
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service	510.37	122.44
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum <small>(26 21 13 00-0002)</small>		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	60.91	21.55
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	68.77	24.49
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	77.96	27.31
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	103.67	36.73
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	115.39	39.67
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	135.95	46.04
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	219.45	51.92
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	282.62	61.22
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	398.77	91.83
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	479.77	122.44
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) <small>(26 21 13 00-0002)</small>		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	59.21	21.55
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	67.75	24.49
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	76.97	27.31
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	102.52	36.73
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	111.69	39.67
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	137.21	46.04
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	231.59	51.92
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	259.24	61.22
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	446.63	91.83
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	619.00	122.44
26 21 16 Low-Voltage Underground Electrical Service Entrance <small>(26 21)</small>		
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial <small>(26 21 16)</small>		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,798.49	1,224.14
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	6,879.71	1,296.16
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	8,489.57	1,377.13
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	10,652.16	1,377.13
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	12,005.19	1,468.99
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	14,379.11	1,694.98
26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	17,334.88	2,203.42
26 22 Low-Voltage Transformers <small>(26 20)</small>		
26 22 13 Low-Voltage Distribution Transformers <small>(26 22)</small>		
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers <small>(26 22 13)</small>		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0002			480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003	EA		1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,628.96	314.26
26 22 13 00-0004	EA		3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,277.26	377.12
26 22 13 00-0005	EA		5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,963.73	393.45
26 22 13 00-0006	EA		7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,656.46	408.54
26 22 13 00-0007	EA		10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	5,330.58	439.96
26 22 13 00-0008	EA		15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	6,406.36 273.18 409.77	471.40
26 22 13 00-0009	EA		25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	7,036.04 301.52 452.28	502.82
26 22 13 00-0010	EA		37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	6,752.90 281.08 421.62	565.67
26 22 13 00-0011	EA		50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	8,097.43 342.02 513.03	628.53
26 22 13 00-0012	EA		75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	10,780.68 463.61 695.42	754.23
26 22 13 00-0013	EA		100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	13,752.11 599.61 899.42	879.94
26 22 13 00-0014	EA		167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	22,154.08 994.57 1,491.86	1,131.35
26 22 13 00-0015	EA		250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	40,501.43 1,886.80 2,830.19	1,382.76
26 22 13 00-0016	EA		333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	64,023.95 3,044.07 4,566.10	1,571.31
26 22 13 00-0017			240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018	EA		3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,811.68	377.12
26 22 13 00-0019	EA		5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,217.67	392.82
26 22 13 00-0020	EA		7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,822.49	408.54
26 22 13 00-0021	EA		10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,369.46	439.96
26 22 13 00-0022			240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023	EA		15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	6,679.53	471.40
26 22 13 00-0024	EA		25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	7,337.56	502.82
26 22 13 00-0025			1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026	EA		1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	621.41	223.77
26 22 13 00-0027			1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028	EA		37.5 KVA 1 Phase Weathershields, Set Of 2.....	196.81	
26 22 13 00-0029	EA		50 KVA 1 Phase Weathershields, Set Of 2.....	250.87	
26 22 13 00-0030	EA		75 KVA 1 Phase Weathershields, Set Of 2.....	299.16	
26 22 13 00-0031	EA		100 KVA 1 Phase Weathershields, Set Of 2.....	356.89	
26 22 13 00-0032	EA		167 KVA 1 Phase Weathershields, Set Of 2.....	482.85	
26 22 13 00-0033	EA		250 KVA 1 Phase Weathershields, Set Of 2.....	577.32	
26 22 13 00-0034	EA		333 KVA 1 Phase Weathershields, Set Of 2.....	708.53	
26 22 13 00-0035			Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036	EA		5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	3,679.14	392.82
26 22 13 00-0037	EA		7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	4,200.40	408.54
26 22 13 00-0038	EA		10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	4,555.02	439.96
26 22 13 00-0039	EA		15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	5,712.62	471.40
26 22 13 00-0040	EA		25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	8,120.25	502.82
26 22 13 00-0041			240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042	EA		0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,743.75	282.83
26 22 13 00-0043	EA		1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	4,013.74	314.26
26 22 13 00-0044	EA		2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	4,664.28	377.12
26 22 13 00-0045	EA		5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	5,194.30	392.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0046	EA		7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	5,908.02	408.54
26 22 13 00-0047	EA		10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	7,755.33	439.96
26 22 13 00-0048	EA		15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	10,221.93	471.40
26 22 13 00-0049			1 Phase, 208/600 Volt, Dry General Purpose Transformer <small>(26 22 13 00-0001)</small>		
26 22 13 00-0050	EA		15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	12,753.46	471.40
26 22 13 00-0051	EA		25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	13,207.79	502.82
26 22 13 00-0052	EA		30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	13,703.75	534.24
26 22 13 00-0053	EA		37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	18,296.56	565.67
26 22 13 00-0054	EA		45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	18,998.89	597.10
26 22 13 00-0055	EA		50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	25,592.12	628.53
26 22 13 00-0056			3 Phase General Purpose "Dry Type" Transformer <small>(26 22 13)</small>		
			Note: 60 Hz type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057			Packaged Power Supply <small>(26 22 13 00-0056)</small>		
			Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058	EA		15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	16,571.76	1,351.32
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	693.46	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,040.18	
26 22 13 00-0059	EA		22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	20,078.01	1,445.60
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	859.34	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,289.01	
26 22 13 00-0060	EA		30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	24,230.58	1,571.31
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,054.40	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,581.60	
26 22 13 00-0061			Drive Isolation Transformers <small>(26 22 13 00-0056)</small>		
			Note: Only use in step-up applications.		
26 22 13 00-0062			230 Volt Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0063	EA		7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,045.39	502.82
26 22 13 00-0064	EA		11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,798.97	534.24
26 22 13 00-0065	EA		15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,199.97	565.67
26 22 13 00-0066	EA		20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,458.50	597.10
26 22 13 00-0067	EA		27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,931.38	659.95
26 22 13 00-0068	EA		34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,418.67	722.80
26 22 13 00-0069	EA		40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	18,591.29	785.65
26 22 13 00-0070	EA		51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,660.84	879.94
26 22 13 00-0071	EA		63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	23,477.54	911.36
26 22 13 00-0072	EA		75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	27,196.87	942.78
26 22 13 00-0073	EA		93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	34,396.85	974.21
26 22 13 00-0074	EA		118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	38,529.36	1,194.19
26 22 13 00-0075	EA		145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	43,041.93	1,257.05
26 22 13 00-0076	EA		175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	49,412.06	1,319.90
26 22 13 00-0077	EA		220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	60,307.21	1,571.31
26 22 13 00-0078	EA		275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	80,097.57	1,854.14
26 22 13 00-0079	EA		330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	84,469.30	2,042.71
26 22 13 00-0080	EA		440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	103,065.42	2,262.68
26 22 13 00-0081	EA		550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	127,454.82	2,514.09
26 22 13 00-0082			208V Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083	EA		7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,505.51	502.82
26 22 13 00-0084	EA		11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,345.15	534.24
26 22 13 00-0085	EA		15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,763.37	565.67
26 22 13 00-0086	EA		20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,133.66	597.10
26 22 13 00-0087	EA		27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,624.20	659.95
26 22 13 00-0088	EA		30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,117.96	691.37
26 22 13 00-0089	EA		45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,520.46	817.08
26 22 13 00-0090	EA		51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	22,673.80	879.94
26 22 13 00-0091	EA		63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	24,579.78	911.36
26 22 13 00-0092	EA		75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	28,485.22	942.78
26 22 13 00-0093	EA		93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	36,048.48	974.21
26 22 13 00-0094	EA		118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	40,368.94	1,194.19
26 22 13 00-0095	EA		145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	45,104.80	1,257.05
26 22 13 00-0096	EA		175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	51,792.77	1,319.90
26 22 13 00-0097	EA		220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	63,216.89	1,571.31
26 22 13 00-0098			480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099	EA		9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,927.28	518.53
26 22 13 00-0100	EA		15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	9,213.43	565.67
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	404.10	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	606.16	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 22 13 00-0101	480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN		
	Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0102	EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	10,260.71	691.37
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	443.90	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	665.85	
	<i>For K4 Factor Rating, Add</i>	6,214.57	
	<i>For K13 Factor Rating, Add</i>	8,877.95	
	<i>For K20 Factor Rating, Add</i>	11,541.34	
26 22 13 00-0103	EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	12,482.09	754.23
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	548.68	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	823.02	
	<i>For K4 Factor Rating, Add</i>	7,681.55	
	<i>For K13 Factor Rating, Add</i>	10,973.64	
	<i>For K20 Factor Rating, Add</i>	14,265.73	
26 22 13 00-0104	EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	13,016.61	817.08
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	569.12	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	853.68	
	<i>For K4 Factor Rating, Add</i>	7,967.72	
	<i>For K13 Factor Rating, Add</i>	11,382.45	
	<i>For K20 Factor Rating, Add</i>	14,797.19	
26 22 13 00-0105	EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	17,317.15	879.94
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	777.86	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,166.80	
	<i>For K4 Factor Rating, Add</i>	10,890.10	
	<i>For K13 Factor Rating, Add</i>	15,557.29	
	<i>For K20 Factor Rating, Add</i>	20,224.48	
26 22 13 00-0106	EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	16,989.35	942.78
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	755.19	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,132.78	
	<i>For K4 Factor Rating, Add</i>	10,572.65	
	<i>For K13 Factor Rating, Add</i>	15,103.78	
	<i>For K20 Factor Rating, Add</i>	19,634.91	
26 22 13 00-0107	EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	21,197.03	1,131.35
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	946.72	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,420.08	
	<i>For K4 Factor Rating, Add</i>	13,254.05	
	<i>For K13 Factor Rating, Add</i>	18,934.35	
	<i>For K20 Factor Rating, Add</i>	24,614.66	
26 22 13 00-0108	EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	27,765.95	1,257.05
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,262.59	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,893.89	
	<i>For K4 Factor Rating, Add</i>	17,676.30	
	<i>For K13 Factor Rating, Add</i>	25,251.86	
	<i>For K20 Factor Rating, Add</i>	32,827.42	
26 22 13 00-0109	EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	38,032.79	1,571.31
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,744.51	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,616.76	
	<i>For K4 Factor Rating, Add</i>	24,423.12	
	<i>For K13 Factor Rating, Add</i>	34,890.17	
	<i>For K20 Factor Rating, Add</i>	45,357.22	
26 22 13 00-0110	EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	46,320.71	1,948.43
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,121.19	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,181.79	
	<i>For K4 Factor Rating, Add</i>	29,696.70	
	<i>For K13 Factor Rating, Add</i>	42,423.86	
	<i>For K20 Factor Rating, Add</i>	55,151.02	
26 22 13 00-0111	EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	66,899.64	2,388.39
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,106.14	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,659.21	
	<i>For K4 Factor Rating, Add</i>	43,486.00	
	<i>For K13 Factor Rating, Add</i>	62,122.86	
	<i>For K20 Factor Rating, Add</i>	80,759.72	
26 22 13 00-0112	EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	157,314.30	2,880.12
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	7,576.59	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	11,364.89	
	<i>For K4 Factor Rating, Add</i>	106,072.32	
	<i>For K13 Factor Rating, Add</i>	151,531.88	
	<i>For K20 Factor Rating, Add</i>	196,991.44	
26 22 13 00-0113	EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	208,030.26	3,142.62
	<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	10,087.25	
	<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	15,130.88	
	<i>For K4 Factor Rating, Add</i>	141,221.51	
	<i>For K13 Factor Rating, Add</i>	201,745.02	
	<i>For K20 Factor Rating, Add</i>	262,268.53	
26 22 13 00-0114	480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN		
	Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115	EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	5,565.00	487.10
	<i>For K4 Factor Rating, Add</i>	3,213.55	
	<i>For K13 Factor Rating, Add</i>	4,590.79	
	<i>For K20 Factor Rating, Add</i>	5,968.03	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Transformers	26 22	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22	13 00-0116	EA	9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,927.28 4,123.15 5,890.21 7,657.27	518.53
26 22	13 00-0117	EA	15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	9,213.43 404.10 606.16 5,657.46 8,082.08 10,506.70	565.67
26 22	13 00-0118		480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22	13 00-0119	EA	30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	18,282.31 844.98 1,267.47 11,829.69 16,899.55 21,969.42	691.37
26 22	13 00-0120	EA	45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	20,439.99 940.29 1,410.44 13,164.08 18,805.83 24,447.58	817.08
26 22	13 00-0121	EA	75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	30,487.00 1,430.07 2,145.11 20,021.00 28,601.43 37,181.86	942.78
26 22	13 00-0122	EA	112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	38,339.32 1,803.83 2,705.75 25,253.65 36,076.64 46,899.63	1,131.35
26 22	13 00-0123	EA	150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	46,308.69 2,189.73 3,284.60 30,656.22 43,794.60 56,932.98	1,257.05
26 22	13 00-0124	EA	225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	59,410.18 2,813.38 4,220.07 39,387.29 56,267.56 73,147.83	1,571.31
26 22	13 00-0125	EA	300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	72,187.58 3,414.54 5,121.80 47,803.51 68,290.73 88,777.95	1,948.43
26 22	13 00-0126	EA	500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	116,940.64 5,608.19 8,412.29 78,514.70 112,163.86 145,813.02	2,388.39
26 22	13 00-0127		3 Phase 60 Hz K20 Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22	13 00-0128		3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22	13 00-0129	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,563.72	565.67
26 22	13 00-0130	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,156.04	691.37
26 22	13 00-0131	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	19,561.81	817.08
26 22	13 00-0132	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	25,125.12	942.78
26 22	13 00-0133	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	38,110.85	1,131.35
26 22	13 00-0134	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	46,508.60	1,257.05
26 22	13 00-0135	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	53,948.35	1,571.31
26 22	13 00-0136	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	86,388.34	1,948.43
26 22	13 00-0137		3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22	13 00-0138	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	10,055.91	565.67
26 22	13 00-0139	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,512.12	691.37
26 22	13 00-0140	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	23,145.92	817.08
26 22	13 00-0141	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	29,765.90	942.78
26 22	13 00-0142	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	45,279.06	1,131.35
26 22	13 00-0143	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	55,311.79	1,257.05

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 22 13 00-0144	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	64,108.07		1,571.31
26 22 13 00-0145	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	102,888.06		1,948.43
26 22 13 00-0146		NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0056)			
26 22 13 00-0147		Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146)			
		Note: Two taps at 2.5%, four at -2.5%.			
26 22 13 00-0148		150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)			
26 22 13 00-0149	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,546.65		563.50
26 22 13 00-0150	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,326.67		688.73
26 22 13 00-0151	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,211.55		813.94
26 22 13 00-0152	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,956.20		939.17
26 22 13 00-0153	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,271.89		1,127.01
26 22 13 00-0154	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,494.20		1,252.23
26 22 13 00-0155	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,214.07		1,565.29
26 22 13 00-0156	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,347.00		1,940.95
26 22 13 00-0157		115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)			
26 22 13 00-0158	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,274.65		563.50
26 22 13 00-0159	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,208.50		688.73
26 22 13 00-0160	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,286.89		813.94
26 22 13 00-0161	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,479.80		939.17
26 22 13 00-0162	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,844.49		1,127.01
26 22 13 00-0163	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,191.13		1,252.23
26 22 13 00-0164	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	18,839.36		1,565.29
26 22 13 00-0165	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	26,586.53		1,940.95
26 22 13 00-0166		80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)			
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,999.71		563.50
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,092.78		688.73
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,362.24		813.94
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,000.96		939.17
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,828.60		1,127.01
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	16,888.05		1,252.23
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,464.66		1,565.29
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	31,826.06		1,940.95
26 22 13 00-0175		Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146)			
		Note: Two taps at 2.5%, four at -2.5%.			
26 22 13 00-0176		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)			
26 22 13 00-0177	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,757.20		563.50
26 22 13 00-0178	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,798.84		688.73
26 22 13 00-0179	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,002.15		813.94
26 22 13 00-0180	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,493.90		939.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,857.99	1,127.01
26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,082.16	1,252.23
26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,379.52	1,565.29
26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	30,260.81	1,940.95
26 22 13 00-0185 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0186 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,482.26	563.50
26 22 13 00-0187 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,683.12	688.73
26 22 13 00-0188 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,077.50	813.94
26 22 13 00-0189 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,017.52	939.17
26 22 13 00-0190 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,718.44	1,127.01
26 22 13 00-0191 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,044.89	1,252.23
26 22 13 00-0192 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	26,856.66	1,565.29
26 22 13 00-0193 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	39,933.98	1,940.95
26 22 13 00-0194 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0195 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,209.77	563.50
26 22 13 00-0196 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,567.39	688.73
26 22 13 00-0197 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,152.83	813.94
26 22 13 00-0198 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,538.66	939.17
26 22 13 00-0199 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,819.55	1,127.01
26 22 13 00-0200 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,544.67	1,252.23
26 22 13 00-0201 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	32,331.34	1,565.29
26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	47,659.78	1,940.95
26 22 13 00-0203 3 Phase Weathershields (26 22 13 00-0056)		
Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	1,963.40	
26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	3,334.22	
26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	3,334.22	
26 22 13 00-0207 Three Phase Mounting Brackets (26 22 13 00-0056)		
26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	1,495.65	223.77
26 22 13 00-0209 Pad Mounted Commercial Type Distribution Transformers UL Listed (26 22 13)		
26 22 13 00-0210 Distribution 3 Phase Oil Filled Transformer (26 22 13 00-0209)		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211 Factory Modifications (26 22 13 00-0210)		
Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification.....	3,597.68	
26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification.....	585.02	
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	2,340.09	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification.....	6,741.93	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	825.91	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	653.85	
26 22 13 00-0218 Accessories For Transformer Liquid Containment Area (26 22 13 00-0210)		
Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219 EA Containment Area For 75 KVA.....	8,432.31	2,292.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,528.27

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0220	EA		Containment Area For 112.5 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,432.31 1,528.27	2,292.36
26 22 13 00-0221	EA		Containment Area For 150 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,432.31 1,528.27	2,292.36
26 22 13 00-0222	EA		Containment Area For 225 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,432.31 1,528.27	2,292.36
26 22 13 00-0223	EA		Containment Area For 300 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,424.07 1,525.80	2,292.36
26 22 13 00-0224	EA		Containment Area For 500 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,424.07 1,525.80	2,292.36
26 22 13 00-0225	EA		Containment Area For 750 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,520.43 1,525.80	2,292.36
26 22 13 00-0226	EA		Containment Area For 1,000 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,917.60 1,525.80	2,292.36
26 22 13 00-0227			Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0228	EA		45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,301.28	1,502.67
26 22 13 00-0229	EA		75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	23,366.06	1,502.67
26 22 13 00-0230	EA		112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	24,742.58	1,502.67
26 22 13 00-0231	EA		150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	28,872.15	1,502.67
26 22 13 00-0232	EA		225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	30,569.47	2,254.01
26 22 13 00-0233	EA		300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	31,945.99	2,254.01
26 22 13 00-0234	EA		500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	48,464.26	2,254.01
26 22 13 00-0235	EA		750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	61,873.88	3,005.34
26 22 13 00-0236	EA		1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	79,768.67	3,005.34
26 22 13 00-0237			Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0238	EA		45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,989.54	1,502.67
26 22 13 00-0239	EA		75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	24,742.58	1,502.67
26 22 13 00-0240	EA		112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	25,430.84	1,502.67
26 22 13 00-0241	EA		150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	26,119.10	1,502.67
26 22 13 00-0242	EA		225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	30,569.47	2,254.01
26 22 13 00-0243	EA		300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	33,322.51	2,254.01
26 22 13 00-0244	EA		500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	48,464.26	2,254.01
26 22 13 00-0245	EA		750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	62,562.14	3,005.34
26 22 13 00-0246	EA		1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	79,768.67	3,005.34
26 22 13 00-0247			Primary 5 KV Or 15 KV, Secondary 277/480 Volt <small>(26 22 13 00-0209)</small> Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248	EA		150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	76,023.48	1,997.98
26 22 13 00-0249	EA		225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	82,801.13	2,358.66
26 22 13 00-0250	EA		300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	92,651.28	2,882.81
26 22 13 00-0251	EA		500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	110,614.37	3,243.48
26 22 13 00-0252	EA		750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	136,791.92	3,414.09
26 22 13 00-0253	EA		1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	164,213.77	4,988.48
26 22 13 00-0254	EA		1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	193,630.73	5,643.66
26 22 13 00-0255	EA		2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	243,150.31	6,486.96
26 22 13 00-0256	EA		2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	269,567.35	6,811.32
26 22 13 00-0257	EA		3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	283,725.98	7,590.01
26 22 13 00-0258	EA		3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	327,033.82	8,108.96
26 22 13 00-0259			Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260	EA		1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	139,793.54	5,580.55
26 22 13 00-0261	EA		2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	172,597.71	6,417.67
26 22 13 00-0262	EA		2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	196,951.87	6,755.39
26 22 13 00-0263	EA		3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	208,705.21	7,550.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	234,867.64	7,778.96
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase <small>(26 22 13 00-0209)</small>		
<small>Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.</small>		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	132,954.15	2,358.66
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	142,198.47	2,882.81
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	166,797.68	3,243.48
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	202,929.42	3,414.09
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	241,871.27	4,988.48
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	308,718.92	5,643.66
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	376,096.36	6,486.96
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	431,169.33	6,811.32
26 22 13 00-0274 Foam Core Poly Transformer Pads <small>(26 22 13)</small>		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	504.13	42.14
<small>Note: Excludes site prep.</small>		
26 24 Switchboards and Panelboards <small>(26 24)</small>		
26 24 13 Switchboards <small>(26 24)</small>		
<small>Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.</small>		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire <small>(26 24 13)</small>		
26 24 13 00-0002 Incoming Service Section Main Device Only <small>(26 24 13 00-0001)</small>		
<small>Note: Copper bus, non-metering type, with fuses.</small>		
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,351.58	1,071.03
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,819.28	1,132.86
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,811.55	1,285.06
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,415.02	1,377.62
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,540.38	1,468.85
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	15,102.89	1,561.79
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,280.01	1,071.03
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,775.97	1,132.86
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,459.38	1,286.16
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,959.28	1,377.62
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	13,540.38	1,470.32
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	15,102.89	1,561.79
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	18,163.77	1,632.80
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	20,595.39	1,749.25
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	24,320.39	1,885.65
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,942.75	948.94
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,253.06	1,010.30
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,725.81	1,162.98
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,018.92	1,211.84
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,281.25	1,255.55
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,692.72	1,346.16
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,074.29	1,438.48
26 24 13 00-0025 Branch Breaker Units <small>(26 24 13 00-0001)</small>		
<small>Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.</small>		
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	376.02	37.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	22.41	
26 24 13 00-0027 EA 100 To 150 Amperes, 240 Volt, MC Branch Breaker.....	550.70	58.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	35.27	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,481.69	107.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	64.28	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,633.23	139.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	83.75	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,685.58	342.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	205.67	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	7,512.33	342.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	205.67	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	12,176.81	611.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	366.60	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire <small>(26 24 13)</small>		
26 24 13 00-0034 Incoming Service Section Main Device Only <small>(26 24 13 00-0033)</small>		
<small>Note: Copper bus, non-metering type, with fuses.</small>		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,163.18	1,389.75
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,888.43	1,389.75
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	10,237.24	1,806.06
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	11,606.72	1,806.06

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 24 13 00-0039	Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire <small>(26 24 13)</small>			
26 24 13 00-0040	Incoming Service Section Main Device Only <small>(26 24 13 00-0039)</small>			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0041	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,916.61	948.94
26 24 13 00-0042	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	4,363.29	1,010.30
26 24 13 00-0043	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,704.61	1,162.98
26 24 13 00-0044	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	7,285.02	1,254.57
26 24 13 00-0045	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	4,797.97	948.94
26 24 13 00-0046	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	6,069.51	1,010.30
26 24 13 00-0047	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	8,535.12	1,162.98
26 24 13 00-0048	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	12,277.49	1,254.57
26 24 13 00-0049	EA	2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	14,416.88	1,408.11
26 24 13 00-0050	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	2,733.85	826.38
26 24 13 00-0051	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,065.61	887.84
26 24 13 00-0052	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,598.87	1,040.54
26 24 13 00-0053	EA	1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,875.53	1,089.40
26 24 13 00-0054	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,143.41	1,132.86
26 24 13 00-0055	EA	1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,497.13	1,211.84
26 24 13 00-0056	EA	2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,843.28	1,285.06
26 24 13 00-0057	EA	2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,012.31	1,591.78
26 24 13 00-0058	EA	3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,731.49	1,744.84
26 24 13 00-0059	EA	4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	7,929.29	1,882.59
26 24 13 00-0060	Branch Breaker Units <small>(26 24 13 00-0039)</small>			
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0061	EA	15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker	201.61	32.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.47	
26 24 13 00-0062	EA	70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker	320.18	53.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 13 00-0063	EA	125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker	979.23	75.31
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.18	
26 24 13 00-0064	EA	100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker	2,820.59	96.73
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.04	
26 24 13 00-0065	EA	300 To 600 Amperes, 120/240 Volt, MC Branch Breaker	4,439.37	235.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.41	
26 24 13 00-0066	EA	400 To 800 Amperes, 120/240 Volt, MC Branch Breaker	6,315.08	235.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	141.41	
26 24 13 00-0067	EA	600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker	10,410.43	449.99
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	270.02	
26 24 13 00-0068	Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>			
26 24 13 00-0069	Incoming Service Section Main Device Only <small>(26 24 13 00-0068)</small>			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0070	EA	400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,353.07	1,071.03
26 24 13 00-0071	EA	600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,817.61	1,132.86
26 24 13 00-0072	EA	800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,809.39	1,285.06
26 24 13 00-0073	EA	1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,412.54	1,377.62
26 24 13 00-0074	EA	1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,534.73	1,468.85
26 24 13 00-0075	EA	2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	15,102.89	1,561.79
26 24 13 00-0076	EA	400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,281.50	1,071.03
26 24 13 00-0077	EA	600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,774.30	1,132.86
26 24 13 00-0078	EA	800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,459.38	1,286.16
26 24 13 00-0079	EA	1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,956.80	1,377.62
26 24 13 00-0080	EA	1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	13,537.56	1,470.32
26 24 13 00-0081	EA	2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	15,102.89	1,561.79
26 24 13 00-0082	EA	400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,089.87	948.94
26 24 13 00-0083	EA	600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,457.45	1,010.30
26 24 13 00-0084	EA	800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,032.29	1,162.98
26 24 13 00-0085	EA	1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,340.82	1,211.84
26 24 13 00-0086	EA	1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,639.23	1,255.55
26 24 13 00-0087	EA	1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,036.92	1,346.16
26 24 13 00-0088	EA	2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,440.08	1,438.48
26 24 13 00-0089	EA	2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	6,461.83	1,634.64
26 24 13 00-0090	EA	3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	7,152.94	1,749.12
26 24 13 00-0091	EA	4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	8,455.96	1,879.53
26 24 13 00-0092	Branch Breaker Units <small>(26 24 13 00-0068)</small>			
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0093	EA	15 To 60 Amperes, 120/208 Volt, MC Branch Breaker	376.02	37.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.41	
26 24 13 00-0094	EA	70 To 100 Amperes, 120/208 Volt, MC Branch Breaker	550.70	58.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.27	
26 24 13 00-0095	EA	125 To 225 Amperes, 120/208 Volt, MC Branch Breaker	1,481.69	107.14
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,633.23	139.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.75	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,685.58	342.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.67	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	7,512.33	342.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.67	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	12,176.81	611.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	366.60	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0101 Incoming Service Section Main Device Only (26 24 13 00-0100)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,638.30	1,468.85
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,191.39	1,561.79
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,832.99	1,743.25
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,657.75	1,866.55
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,214.57	1,468.85
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,724.35	1,561.79
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,019.65	1,745.21
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,934.59	1,866.55
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,577.65	1,990.34
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	16,207.37	2,114.01
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,089.87	948.94
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,457.45	1,010.30
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,032.29	1,162.98
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,340.82	1,211.84
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,639.23	1,255.55
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,036.92	1,346.16
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,440.08	1,438.48
26 24 13 00-0119 Branch Breaker Units (26 24 13 00-0100)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	780.92	37.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.41	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	899.10	58.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.27	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,630.47	107.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.28	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,633.23	139.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.75	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	6,308.94	342.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.67	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	6,453.95	342.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.67	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	10,351.95	611.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	366.60	
26 24 13 00-0127 Fusible Branch Circuit Switch (26 24 13)		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	800.85	96.12
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	798.03	96.12
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	798.03	96.12
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,254.06	126.73
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,254.06	126.73
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	917.10	94.28
For Electrical Interlock Kit, Add	315.39	
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	1,340.02	94.28
For Electrical Interlock Kit, Add	315.39	
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,443.52	254.07
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,027.22	108.37
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,024.40	108.37
For Electrical Interlock Kit, Add	329.23	
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,024.40	108.37
For Electrical Interlock Kit, Add	329.23	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	13 00-0142	EA	60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,544.34 329.23	145.10
26 24	13 00-0143	EA	100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,544.34 329.23	145.10
26 24	13 00-0144		240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24	13 00-0145	EA	100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,111.24 329.23	106.53
26 24	13 00-0146	EA	200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,800.68 315.39	106.53
26 24	13 00-0147	EA	400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	4,615.59	284.44
26 24	13 00-0148	EA	600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	6,594.03	364.40
26 24	13 00-0149	EA	800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	12,285.33	493.70
26 24	13 00-0150		600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24	13 00-0151	EA	30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,454.15 329.23	108.37
26 24	13 00-0152	EA	30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,451.29 329.23	108.37
26 24	13 00-0153	EA	60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,454.15 329.23	108.37
26 24	13 00-0154	EA	60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,188.51 329.23	145.10
26 24	13 00-0155	EA	100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,236.18 329.23	145.10
26 24	13 00-0156	EA	200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,769.18 329.23	189.79
26 24	13 00-0157		600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24	13 00-0158	EA	100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,571.06 329.23	106.53
26 24	13 00-0159	EA	200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,384.44 315.39	106.53
26 24	13 00-0160	EA	400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	5,799.70 315.39	284.44
26 24	13 00-0161	EA	600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit.....	7,042.22	364.40
26 24	13 00-0162	EA	800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit.....	12,285.33	493.70
26 24	13 00-0163		Service And Distribution Structures (26 24 13)		
26 24	13 00-0164		Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24	13 00-0165		600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24	13 00-0166	EA	14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	2,881.88	1,126.49
26 24	13 00-0167	EA	24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,442.24	1,126.49
26 24	13 00-0168	EA	34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,833.30	1,432.60
26 24	13 00-0169	EA	42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,228.87	1,432.60
26 24	13 00-0170		800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24	13 00-0171	EA	14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,241.86	1,304.04
26 24	13 00-0172	EA	24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,786.58	1,304.04
26 24	13 00-0173	EA	34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,228.87	1,616.27
26 24	13 00-0174	EA	42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,584.22	1,616.27
26 24	13 00-0175		1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24	13 00-0176	EA	14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,799.03	1,591.78
26 24	13 00-0177	EA	24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,357.11	1,591.78
26 24	13 00-0178	EA	34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,827.17	1,959.12
26 24	13 00-0179	EA	42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,347.77	1,959.12
26 24	13 00-0180		1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24	13 00-0181	EA	14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,702.07	1,744.84
26 24	13 00-0182	EA	24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,367.19	1,744.84
26 24	13 00-0183	EA	34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,925.51	2,155.03
26 24	13 00-0184	EA	42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,379.00	2,155.03
26 24	13 00-0185		2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24	13 00-0186	EA	14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,929.08	1,750.96
26 24	13 00-0187	EA	24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,647.51	1,971.36
26 24	13 00-0188	EA	34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,768.52	1,971.36
26 24	13 00-0189	EA	42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,008.80	2,081.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,797.98	1,971.36
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,917.18	1,971.36
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,157.46	2,081.56
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,954.97	2,081.56
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,157.46	2,081.56
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,244.22	2,081.56
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	615.99	146.93
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	694.45	146.93
26 24 13 00-0201 EA Cable Supports In Pull Box.....	248.63	36.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		20.41
26 24 13 00-0202 Underground Pull Sections <small>(26 24 13 00-0164)</small>		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	596.92	171.42
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.56	220.40
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.56	220.40
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	773.83	171.42
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,107.75	251.01
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,264.18	251.01
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,324.98	324.47
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,399.07	324.47
26 24 13 00-0211 Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,806.11	1,020.33
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,264.11	1,109.10
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,601.68	1,417.17
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,220.06	1,545.98
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,700.08	1,645.78
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,717.76	895.07
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,255.64	850.26
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,607.47	922.01
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	8,131.77	1,020.33
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	8,726.88	1,023.03
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	9,579.07	1,142.17
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	182.35	61.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		37.39
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	222.58	62.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		44.17
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	1,030.58	73.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		95.16
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,708.18	158.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		132.52
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	679.91	220.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		76.53
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,920.32	127.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		95.16
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	2,491.46	531.41
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,544.07	718.63
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,975.92	874.62
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	5,014.04	1,224.45
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,213.26	1,530.56
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,848.18	1,530.56
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	8,454.07	2,040.79
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	9,671.50	2,040.79
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	11,372.85	2,429.42
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	13,613.04	2,429.42
26 24 13 00-0240 Main Devices <small>(26 24 13)</small>		
26 24 13 00-0241 Power Circuit Breakers <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector <small>(26 24 13 00-0241)</small>		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	8,746.30	1,285.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		769.77
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	15,961.21	2,142.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		1,284.39

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0245	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip	35,956.89	3,599.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,140.64	
26 24 13 00-0246	EA		4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip	57,923.44	5,828.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,559.44	
26 24 13 00-0247	EA		Ground-Fault Trip All Power Breakers - Factory Installed.....	3,048.66	
26 24 13 00-0248	EA		Key Interlock All Power Breakers - Factory Installed	393.73	
26 24 13 00-0249	EA		Short Time Delay Selective Trip - Factory Installed	516.54	
26 24 13 00-0250	EA		Shunt Trip Manually Open Breakers - Factory Installed.....	372.05	
26 24 13 00-0251			DSL Breaker Electrical Operated And Amptector <small>(26 24 13 00-0241)</small>		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252	EA		50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip	10,248.75	1,346.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	811.97	
26 24 13 00-0253	EA		50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip	19,039.99	2,265.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,352.48	
26 24 13 00-0254	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip	40,396.86	3,734.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,250.82	
26 24 13 00-0255	EA		4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip	62,386.15	6,122.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,763.67	
26 24 13 00-0256			DS Breakers With Amptector Static Trip, Manually Operated <small>(26 24 13 00-0241)</small>		
			Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257	EA		50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip	6,960.21	1,175.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	706.41	
26 24 13 00-0258	EA		50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	12,736.37	1,971.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,177.35	
26 24 13 00-0259	EA		2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip	18,874.58	3,306.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,962.26	
26 24 13 00-0260	EA		1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	32,575.64	5,326.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,268.10	
26 24 13 00-0261	EA		4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	53,010.21	8,693.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,433.94	
26 24 13 00-0262			DS Breakers With Amptector Static Trip, Electrically Operated <small>(26 24 13 00-0241)</small>		
			Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263	EA		50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	8,213.16	1,126.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	673.76	
26 24 13 00-0264	EA		50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	15,330.01	1,885.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,122.66	
26 24 13 00-0265	EA		2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	21,826.42	3,134.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,874.15	
26 24 13 00-0266	EA		1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	36,022.18	5,105.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,123.59	
26 24 13 00-0267	EA		4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	56,326.38	8,754.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,217.82	
26 24 13 00-0268			Molded Case Circuit Breakers Conventional <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269	EA		70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	2,952.00	1,028.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	592.47	
26 24 13 00-0270	EA		125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,320.86	1,028.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	644.45	
26 24 13 00-0271	EA		300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker	4,792.92	1,224.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	706.41	
26 24 13 00-0272	EA		400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,698.93	1,224.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	765.28	
26 24 13 00-0273	EA		600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker	8,463.03	1,469.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	838.67	
26 24 13 00-0274	EA		1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	13,684.70	1,469.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	927.61	
26 24 13 00-0275	EA		Shunt Trip, Factory Installed.....	390.11	
26 24 13 00-0276	EA		Groundfault Trip Complete Interrupting Circuit, Factory Installed	90.30	
26 24 13 00-0277			Switchboard Branch Breaker 480 Volt <small>(26 24 13 00-0240)</small>		
26 24 13 00-0278	EA		60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker	616.20	88.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.24	
26 24 13 00-0279	EA		100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	726.63	117.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.64	
26 24 13 00-0280	EA		225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker	2,103.73	177.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.41	
26 24 13 00-0281	EA		400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,780.96	222.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.48	
26 24 13 00-0282	EA		600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,365.50	298.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.01	
26 24 13 00-0283	EA		800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,064.17	382.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,537.51	583.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	349.84	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,537.51	583.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	349.84	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	9,169.29	816.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	489.78	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	11,438.12	1,224.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	734.67	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,427.07	531.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	318.87	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,528.10	581.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	349.18	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	8,113.39	874.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	524.76	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	13,881.96	1,224.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	734.67	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	14,142.01	1,354.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	812.69	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	18,659.46	2,429.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,457.68	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	646.56	44.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	651.85	55.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,575.61	66.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,285.89	85.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.94	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,224.36	105.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.53	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,224.68	123.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.65	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	6,454.35	139.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.30	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	445.23	33.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	571.86	44.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,571.18	55.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,492.21	61.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.41	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,631.91	79.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.26	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	5,971.84	115.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.14	
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)		
Note: Factory installed accessories.		
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer.....	471.39	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	680.89	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	801.90	
26 24 13 00-0316 Instruments (26 24 13 00-0311)		
26 24 13 00-0317 EA AC Voltmeter.....	642.96	
26 24 13 00-0318 EA AC Ammeter.....	642.96	
26 24 13 00-0319 EA AC Wattmeter.....	1,717.58	
26 24 13 00-0320 EA Variometer.....	1,939.73	
26 24 13 00-0321 EA Power Factor Meter.....	1,549.62	
26 24 13 00-0322 EA Frequency Meter.....	1,710.36	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer.....	577.95	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	2,176.33	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,641.06	
26 24 13 00-0326 EA Weatherproof, Modify Meter.....	3,490.97	
26 24 13 00-0327 EA Control Switch Resistor Type 130 V.....	81.37	
26 24 13 00-0328 EA Metering Instrument: Voltage, Amperes And Watt Hour.....	4,392.03	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
26 24 16 Panelboards (26 24)

26 24 16 00-0001	EA	Branch Circuit Panelboard <small>(26 24 16)</small> Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002	EA	Assembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003		120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0004	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,322.32	348.97
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0005	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,503.11	348.97
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0006	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,706.92	483.66
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0007	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	1,913.41	483.66
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0008	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,107.53	606.10
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0009	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,306.73	606.10
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0010	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,499.26	697.93
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0011	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,001.67	893.84
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0012	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,159.24	893.84
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0013	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,314.40	1,022.42
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0014	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,564.76	1,022.42
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0015	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,719.19	1,150.98
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0016	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,948.39	1,150.98
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0017	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,088.28	1,273.43
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0018	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,319.03	1,273.43
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0019	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,530.66	1,408.11
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0020	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,677.48	1,408.11
		<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0021	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,890.29	1,408.11
		<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0022		120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023	EA	50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,568.48	336.73
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,751.92	336.73
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,173.82	575.49
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,465.42	575.49
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,663.50	704.06
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,869.91	704.06
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,053.46	844.87
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,694.77	844.87
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,858.19	1,034.66
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,035.48	1,034.66
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,229.44	1,163.23
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,387.16	1,163.23
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,555.18	1,273.43
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,735.05	1,273.43
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,928.72	1,506.07
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,138.56	1,506.07
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,367.51	1,506.07
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,509.75	1,591.78
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,596.66	397.95
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,791.91	397.95
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,013.58	532.64
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,246.51	532.64
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,455.28	655.08
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,678.29	655.08
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0048	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,888.41 1,534.02	777.52
26 24 16 00-0049	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,105.51 1,687.00	777.52
26 24 16 00-0050	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,307.48 123.27	912.21
26 24 16 00-0051	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,540.09 1,687.00	912.21
26 24 16 00-0052	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,776.97 123.27	1,053.03
26 24 16 00-0053	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,009.52 1,687.00	1,053.03
26 24 16 00-0054	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,473.76 1,992.76	1,273.43
26 24 16 00-0055	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,631.79 1,992.76	1,273.43
26 24 16 00-0056	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,903.15 1,992.76	1,414.24
26 24 16 00-0057	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	5,149.21 1,992.76	1,414.24
26 24 16 00-0058	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,323.43 2,074.05	1,542.80
26 24 16 00-0059	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	5,569.06 2,074.05	1,542.80
26 24 16 00-0060	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,417.47 1,992.76	1,368.93
26 24 16 00-0061	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	5,591.85 1,992.76	1,438.72
26 24 16 00-0062	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,875.41 1,992.76	1,515.25
26 24 16 00-0063	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	6,139.95 1,992.76	1,604.02
26 24 16 00-0064	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,324.91 2,074.05	1,653.01
26 24 16 00-0065	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	6,622.64 2,074.05	1,754.02
26 24 16 00-0066			120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,900.81 1,534.02	385.71
26 24 16 00-0068	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,098.56 1,534.02	385.71
26 24 16 00-0069	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,333.90 1,534.02	508.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0070 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,661.36	508.15
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0071 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,143.13	765.28
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0072 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,347.13	765.28
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0073 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,567.96	893.84
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,751.80	893.84
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,999.60	1,034.66
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,168.87	1,034.66
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,443.29	1,163.23
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,678.70	1,163.23
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,500.09	1,346.89
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,743.34	1,420.36
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,846.71	1,420.36
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,119.69	1,604.02
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,310.37	1,604.02
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two- 20 Ampere Breakers	6,435.63	1,604.02
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0085 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,471.60	1,475.46
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0086 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,737.45	1,561.17
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0087 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,844.30	1,604.02
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0088 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,138.87	1,701.99
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0089 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,328.44	1,750.96
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0090 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,507.27	1,812.19
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0092)</small>		
26 24 16 00-0092 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,802.32	391.83
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 24 16 00-0093	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,060.44		391.83
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0094	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,308.05		538.76
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0095	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,566.14		538.76
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0096	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,807.10		673.45
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0097	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,060.78		673.45
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0098	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,325.37		814.26
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0099	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,568.16		814.26
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0100	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,834.74		967.31
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0101	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,092.22		967.31
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0102	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,329.23		1,102.01
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0103	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,582.91		1,102.01
		<i>For NEMA 3R Panelboard, Add</i>	1,687.00		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0104	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,123.90		1,340.77
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0105	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,377.29		1,340.77
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0106	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,646.85		1,469.34
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0107	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,844.57		1,469.34
		<i>For NEMA 3R Panelboard, Add</i>	1,992.76		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0108	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,144.11		1,622.39
		<i>For NEMA 3R Panelboard, Add</i>	2,074.05		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07		
26 24 16 00-0109	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,358.93		1,622.39
		<i>For NEMA 3R Panelboard, Add</i>	2,074.05		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07		
26 24 16 00-0110		480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>			
26 24 16 00-0111	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,293.47		416.32
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0112	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,545.78		453.05
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0113	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,800.85		563.25
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0114	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,365.87		685.69
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0115	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,609.29		759.16
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0116	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,831.19		820.38
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		
26 24 16 00-0117	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,075.72		893.84
		<i>For NEMA 3R Panelboard, Add</i>	1,534.02		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,311.05	967.31
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,526.36	1,028.54
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,757.35	1,089.76
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0121 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	5,007.29	1,163.23
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0122 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	5,280.42	1,255.06
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0123 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,646.03	1,395.87
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,907.94	1,481.58
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,094.25	1,518.31
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,388.70	1,616.27
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,593.60	1,677.50
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,806.06	1,730.15
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,193.79	428.56
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0131 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,482.06	428.56
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0132 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,762.89	569.37
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0133 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,046.01	569.37
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0134 EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,333.72	704.06
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0135 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,615.49	704.06
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0136 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,901.88	844.87
<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0137 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,187.06	844.87
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0138 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,498.59	991.81
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0139 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,759.67	991.81
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0140 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,035.49	997.93
<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0141	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	5,329.07	997.93
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0142	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	6,070.39	1,383.62
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0143	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,370.73	1,383.62
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0144	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	6,602.88	1,457.09
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0145	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,930.72	1,555.05
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0146	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,178.51	1,555.05
			<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0147	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	7,542.23	1,701.99
			<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0148			277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,847.88	526.51
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0150	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	3,142.96	526.51
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0151	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	3,426.94	697.93
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0152	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	4,081.48	697.93
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0153	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	4,355.00	881.60
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0154	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	4,628.08	881.60
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0155	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,891.97	1,010.17
			<i>For NEMA 3R Panelboard, Add</i>	1,534.02	
26 24 16 00-0156	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	5,135.83	1,010.17
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	5,395.37	1,150.98
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	5,673.84	1,150.98
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	5,913.34	1,273.43
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	6,164.69	1,273.43
			<i>For NEMA 3R Panelboard, Add</i>	1,687.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	8,061.09	1,506.07
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	8,366.26	1,506.07
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	8,591.37	1,646.89
			<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	8,932.44	1,646.89
<i>For NEMA 3R Panelboard, Add</i>	1,992.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	9,178.21	1,799.94
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,432.35	1,799.94
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,196.79	2,004.42
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	13,629.98	2,406.04
<i>For NEMA 3R Panelboard, Add</i>	2,074.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>		
<small>Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.</small>		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
<small>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.</small>		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	701.06	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	806.38	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,096.82	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,265.75	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,432.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,601.09	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,738.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,903.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,065.48	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,201.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,404.20	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,042.58	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,180.83	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,891.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,099.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,294.56	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 16 00-0189	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,990.02		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0190	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,222.54		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0191	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,432.89		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07		
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>					
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,421.22		
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,518.31		
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,791.61		
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,957.11		
26 24 16 00-0197	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,110.43		
26 24 16 00-0198	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,412.47		
26 24 16 00-0199	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,540.53		
26 24 16 00-0200	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,697.27		
26 24 16 00-0201	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,922.81		
26 24 16 00-0202	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,054.12		
26 24 16 00-0203	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,243.78		
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>					
26 24 16 00-0205	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,754.51		
26 24 16 00-0206	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,883.84		
26 24 16 00-0207	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,718.91		
26 24 16 00-0208	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,910.57		
26 24 16 00-0209	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,093.60		
26 24 16 00-0210	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,771.91		
26 24 16 00-0211	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,996.20		
26 24 16 00-0212	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,204.50		
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>					
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers					
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>					
26 24 16 00-0215	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	789.94		
26 24 16 00-0216	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	928.79		
26 24 16 00-0217	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,045.07		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0218	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,182.28		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		
26 24 16 00-0219	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,360.70		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53		
26 24 16 00-0220	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,506.65		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07		
26 24 16 00-0221	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,737.11		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,871.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,019.93	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,216.57	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,446.98	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,896.43	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,222.71	
26 24 16 00-0229 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,378.89	
26 24 16 00-0230 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,579.65	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0231 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,342.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0232 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,536.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0233 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,716.93	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0234 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,763.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0235 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,978.92	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0236 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,158.15	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,510.10	
26 24 16 00-0239 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,640.72	
26 24 16 00-0240 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,748.08	
26 24 16 00-0241 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,877.06	
26 24 16 00-0242 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,052.06	
26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,184.97	
26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,548.50	
26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,674.06	
26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,814.16	
26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,073.91	
26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,288.54	
26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,738.00	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,934.64	
26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,081.91	
26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,277.87	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,170.79	
26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,348.16	
26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,515.97	
26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,263.99	
26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,487.01	
26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,678.31	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,134.28	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,244.34	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,717.22	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,914.25	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,084.61	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,077.81	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,189.15	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,377.90	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,507.19	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,687.39	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,934.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,327.75	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,401.26	
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,606.72	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,746.21	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,022.79	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,929.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,101.66	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,323.93	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,460.48	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,691.73	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,901.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,829.75	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,939.81	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,396.23	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,712.60	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,869.25	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,862.44	
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,953.21	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,112.46	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,310.34	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,473.73	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,684.50	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,171.37	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,244.88	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,291.90	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,425.22	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,821.14	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,713.66	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,865.72	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,058.50	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,195.05	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,407.44	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,614.53	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,180.91	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,291.67	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,494.31	
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,785.84	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,984.38	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,153.42	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,168.53	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,301.63	
For Door-In-Door (Hinged) Trim Front, Add	123.27	
For Door-In-Door (Hinged) Trim Front, Add	123.27	
For Door-In-Door (Hinged) Trim Front, Add	210.53	
For Door-In-Door (Hinged) Trim Front, Add	269.07	
For Door-In-Door (Hinged) Trim Front, Add	123.27	
For Door-In-Door (Hinged) Trim Front, Add	210.53	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0319	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,488.96	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0320	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,618.49	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0321	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,799.52	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0322	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,047.33	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0323		Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,567.80	
26 24 16 00-0325	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,642.00	
26 24 16 00-0326	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,862.62	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0327	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,936.69	
26 24 16 00-0328	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,076.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0329	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,352.62	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0330	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,316.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0331	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,490.82	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0332	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,710.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0333	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,924.31	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	123.27	
26 24 16 00-0334	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,157.79	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	210.53	
26 24 16 00-0335	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,367.61	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	269.07	
26 24 16 00-0336		Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,876.39	
26 24 16 00-0338	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,987.14	
26 24 16 00-0339	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,179.49	
26 24 16 00-0340	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,464.85	
26 24 16 00-0341	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,782.73	
26 24 16 00-0342	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,938.06	
26 24 16 00-0343	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,955.22	
26 24 16 00-0344	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,065.69	
26 24 16 00-0345	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,223.53	
26 24 16 00-0346	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,421.64	
26 24 16 00-0347	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,585.52	
26 24 16 00-0348	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,796.30	
26 24 16 00-0349		Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,246.81	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0351	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,321.01	
	26 24 16 00-0352	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,660.97	
	26 24 16 00-0353	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,621.88	
	26 24 16 00-0354	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,755.78	
	26 24 16 00-0355	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,150.98	
	26 24 16 00-0356	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,100.74	
	26 24 16 00-0357	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,254.88	
	26 24 16 00-0358	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,445.32	
	26 24 16 00-0359	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,658.87	
	26 24 16 00-0360	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,873.15	
	26 24 16 00-0361	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	6,079.55	
	26 24 16 00-0362			600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
				Note: Square D I-Line or equal.		
	26 24 16 00-0363			Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
	26 24 16 00-0364	EA		400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,011.34	364.19
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.52	
	26 24 16 00-0365	EA		400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,355.15	364.07
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.46	
	26 24 16 00-0366	EA		400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,614.05	364.07
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.46	
	26 24 16 00-0367	EA		600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,982.39	597.91
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	358.76	
	26 24 16 00-0368	EA		600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,182.77	597.91
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	358.76	
	26 24 16 00-0369	EA		600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,402.65	597.91
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	358.76	
	26 24 16 00-0370	EA		800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,676.71	794.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	476.88	
	26 24 16 00-0371	EA		800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,869.53	797.19
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	478.34	
	26 24 16 00-0372	EA		800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,948.02	794.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	476.88	
	26 24 16 00-0373	EA		800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,583.72	794.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	476.88	
	26 24 16 00-0374	EA		1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,974.53	1,195.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	717.51	
	26 24 16 00-0375	EA		1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,407.20	1,195.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	717.51	
	26 24 16 00-0376	EA		1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,760.96	1,195.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	717.51	
	26 24 16 00-0377	EA		1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,192.75	1,195.84
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	717.51	
	26 24 16 00-0378			Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
	26 24 16 00-0379	EA		225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,885.96	371.91
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.13	
	26 24 16 00-0380	EA		400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,101.23	421.81
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.10	
	26 24 16 00-0381	EA		400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,351.26	421.81
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.10	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,087.15	421.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.10	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,939.56	691.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	414.90	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,352.86	693.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	416.00	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,693.19	691.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	414.90	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,038.62	924.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	554.67	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,527.72	921.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	552.71	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	11,015.36	921.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	552.71	
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>		
See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small>		
Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	165.81	61.22
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	554.23	244.89
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	838.64	349.58
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,793.21	734.79
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,961.44	795.89
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	231.80	67.34
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	417.18	73.47
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	235.77	67.34
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	263.05	73.47
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	918.13	349.58
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,082.40	795.89
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	292.28	67.34
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,014.56	734.79
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,169.90	734.79
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,355.41	795.89
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	8,349.06	1,224.45
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,173.47	734.79
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,461.80	795.89



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	9,193.50	1,224.45
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,282.21	734.79
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,547.21	795.89
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,359.74	734.79
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,482.01	795.89
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small>		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	839.16	349.58
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,022.35	408.35
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	858.17	349.58
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,027.54	408.35
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,492.92	544.27
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,760.94	653.24
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,013.48	753.64
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,219.22	815.85
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,321.50	1,224.45
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,560.31	544.27
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,824.88	653.24
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,077.41	753.64
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,279.70	815.85
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,520.21	1,224.45
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,094.69	1,360.49
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,302.04	1,360.49
26 24 16 00-0440 Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small>		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,119.12	408.35
26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,668.53	612.22
26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,176.14	408.35
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,720.36	612.22
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,111.97	753.64
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,306.49	816.34
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,823.70	979.93
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,390.62	1,224.45
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,172.45	753.64
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,374.74	815.85
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,055.72	979.19
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,623.89	1,224.45

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0453	EA		400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,146.53	1,360.49
26 24 16 00-0454	EA		400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,353.88	1,360.49
26 24 16 00-0455			Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA		125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,112.20	408.35
26 24 16 00-0457	EA		125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,644.34	612.22
26 24 16 00-0458	EA		200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,902.63	653.24
26 24 16 00-0459	EA		200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,181.83	754.01
26 24 16 00-0460	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,401.53	816.34
26 24 16 00-0461	EA		200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,179.38	1,088.53
26 24 16 00-0462	EA		200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,919.91	653.24
26 24 16 00-0463	EA		200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,215.65	753.64
26 24 16 00-0464	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,409.30	815.85
26 24 16 00-0465	EA		200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,084.35	1,088.53
26 24 16 00-0466	EA		400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	5,874.45	1,360.49
26 24 16 00-0467	EA		400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	6,220.03	1,360.49
26 24 16 00-0468			Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,885.34	816.34
26 24 16 00-0470	EA		200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,943.55	1,224.45
26 24 16 00-0471	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,988.15	815.85
26 24 16 00-0472	EA		200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,047.23	1,224.45
26 24 16 00-0473			Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474			Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA		1 Pole Midget Finger-Safe Fuse Holder.....	78.37	22.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 24 16 00-0476	EA		1 Pole With Indicator Midget Finger-Safe Fuse Holder.....	92.30	22.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 24 16 00-0477	EA		2 Pole Midget Finger-Safe Fuse Holder.....	126.41	33.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 24 16 00-0478	EA		2 Pole With Indicators Midget Finger-Safe Fuse Holder.....	162.76	33.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 24 16 00-0479	EA		3 Pole Midget Finger-Safe Fuse Holder.....	185.71	44.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 24 16 00-0480	EA		3 Pole With Indicators Midget Finger-Safe Fuse Holder.....	233.98	44.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 24 16 00-0481	EA		3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	274.36	44.08
			Note: With indicators.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 24 16 00-0482	EA		3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....	220.83	44.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 24 16 00-0483	EA		4 Pole Midget Finger-Safe Fuse Holder.....	233.89	55.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 24 16 00-0484	EA		4 Pole With Indicator Midget Finger-Safe Fuse Holder.....	286.90	55.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 24 16 00-0485	EA		12 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	92.34	22.04
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 24 16 00-0486	EA		20 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	99.74	22.04
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 24 16 00-0487	EA		35 To 48 Volt DC Midget Finger-Safe Fuse Holder.....	93.71	22.04
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 24 16 00-0488			Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....	1,537.53	
Note: Includes removal and reinstallation of main wiring to panelboard.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	459.17	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	81.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.88	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening.....	5.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.15	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19)		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	2,382.96	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....	2,821.03	117.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.49	
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....	4,194.12	123.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.85	
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	7,597.37	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	15,291.89	167.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.70	
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	25,723.15	223.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.27	
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....	2,382.96	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....	2,821.03	117.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.49	
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	4,194.12	123.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.85	
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	7,597.37	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	15,291.89	167.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.70	
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....	25,723.15	223.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.27	
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	3,449.00	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....	4,594.00	117.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.49	
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....	6,581.43	123.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.85	
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	11,509.20	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	22,643.52	167.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.70	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	39,017.07	223.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.27	
26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....	3,449.00	111.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.13	
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....	4,594.00	117.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.49	
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	6,581.43	123.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.85	
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	11,509.20	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	22,643.52	167.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.70	
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....	39,017.07	223.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.27	
26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,199.84	179.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.41	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0032	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....5,771.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 114.12		190.21
26 24 19 00-0033	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....8,490.69 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.83		201.40
26 24 19 00-0034	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....15,161.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 137.62		229.36
26 24 19 00-0035	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....25,108.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 161.12		268.52
26 24 19 00-0036			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,199.84 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 107.41		179.02
26 24 19 00-0038	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....5,771.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 114.12		190.21
26 24 19 00-0039	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....8,490.69 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.83		201.40
26 24 19 00-0040	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....15,161.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 137.62		229.36
26 24 19 00-0041	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....25,108.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 161.12		268.52
26 24 19 00-0042			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....4,842.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 67.13		111.88
26 24 19 00-0044	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....7,202.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 70.49		117.48
26 24 19 00-0045	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....9,856.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 73.85		123.07
26 24 19 00-0046	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....18,508.50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 87.27		145.45
26 24 19 00-0047	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....32,059.48 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.70		167.83
26 24 19 00-0048			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,842.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 67.13		111.88
26 24 19 00-0050	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....7,202.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 70.49		117.48
26 24 19 00-0051	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....9,856.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 73.85		123.07
26 24 19 00-0052	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....18,508.50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 87.27		145.45
26 24 19 00-0053	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....32,059.48 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.70		167.83
26 24 19 00-0054			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit .....7,157.47		117.48
26 24 19 00-0056	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit .....10,953.90		128.67
26 24 19 00-0057	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....18,456.55		145.45
26 24 19 00-0058	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....28,545.15		167.83
26 24 19 00-0059	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....48,828.28		223.77
26 24 19 00-0060			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit .....7,157.47		117.48
26 24 19 00-0062	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....10,953.90		128.67
26 24 19 00-0063	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....18,456.55		145.45
26 24 19 00-0064	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....28,545.15		167.83
26 24 19 00-0065	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....48,828.28		223.77
26 24 19 00-0066			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....4,897.74 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 107.41		179.02
26 24 19 00-0068	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....6,324.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 124.19		206.99
26 24 19 00-0069	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....11,107.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 137.62		229.36
26 24 19 00-0070	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....18,921.57 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 167.83		279.71
26 24 19 00-0071	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....25,991.69 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 214.83		358.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
<i>Note: Reducing volt, part winding.</i>		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	4,897.74	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>107.41</i>	
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,324.63	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>124.19</i>	
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	11,107.86	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>137.62</i>	
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	18,921.57	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>167.83</i>	
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	25,991.69	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>214.83</i>	
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
<i>Note: Reducing volt, energy saver.</i>		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	20,179.84	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>87.27</i>	
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	21,410.11	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>107.41</i>	
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	23,643.30	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>124.19</i>	
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	35,789.47	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>137.62</i>	
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	48,806.90	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>167.83</i>	
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	66,232.55	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>214.83</i>	
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
<i>Note: Reducing volt, energy saver.</i>		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	20,179.84	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>87.27</i>	
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	21,410.11	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>107.41</i>	
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	23,643.30	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>124.19</i>	
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	35,789.47	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>137.62</i>	
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	48,806.90	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>167.83</i>	
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	66,232.55	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>214.83</i>	
26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small>		
<i>Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.</i>		
26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 1-speed non-reversing.</i>		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,184.75	111.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>67.13</i>	
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,622.82	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>70.49</i>	
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,596.69	123.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>73.85</i>	
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,305.39	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>87.27</i>	
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,440.33	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>100.70</i>	
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	30,052.82	223.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>134.27</i>	
26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
<i>Note: Full volt, 1-speed non-reversing.</i>		
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,184.75	111.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>67.13</i>	
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,622.82	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	<i>70.49</i>	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0103	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,596.69	123.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.85	
26 24 19 00-0104	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,305.39	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0105	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,440.33	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0106	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	30,052.82	223.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0107			230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,244.02	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0109	EA		230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit	5,379.98	117.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0110	EA		230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit	7,952.37	123.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.85	
26 24 19 00-0111	EA		230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	14,181.09	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0112	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	25,728.72	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0113			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Full volt, 1-speed reversing.		
26 24 19 00-0114	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit	4,244.02	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0115	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit	5,379.98	117.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0116	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	7,952.37	123.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.85	
26 24 19 00-0117	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	14,181.09	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0118	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit	25,728.72	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0119			230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,981.30	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0121	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	6,541.77	190.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.12	
26 24 19 00-0122	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	9,839.06	201.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.83	
26 24 19 00-0123	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	17,802.25	229.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0124	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	28,168.36	268.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.12	
26 24 19 00-0125			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	4,981.30	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0127	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	6,541.77	190.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.12	
26 24 19 00-0128	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	9,839.06	201.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.83	
26 24 19 00-0129	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	17,802.25	229.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0130	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	28,168.36	268.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.12	
26 24 19 00-0131			230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,735.90	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0133	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	8,082.31	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	11,332.18	190.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.12	
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	21,262.58	218.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.91	
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	35,237.88	257.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.41	
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,735.90	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	8,082.31	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	11,332.18	190.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.12	
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	21,262.58	218.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.91	
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	35,237.88	257.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.41	
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,916.35	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,742.69	128.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.20	
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	21,530.46	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	32,612.83	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	53,654.83	223.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,916.35	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,742.69	128.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.20	
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	21,530.46	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	32,612.83	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	53,654.83	223.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,679.20	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	7,090.28	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	12,447.19	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	22,033.87	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	32,500.88	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.83	
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,679.20	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	7,090.28	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	12,447.19	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	22,033.87	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	32,500.88	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.83	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit.....	20,828.04	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit.....	22,051.54	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit.....	24,262.15	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	36,302.16	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	49,204.41	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	68,958.64	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.83	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	20,828.09	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.29	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	22,051.54	179.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	24,262.15	206.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	36,302.16	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	49,204.41	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	68,958.64	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.83	
26 24 19 00-0181 Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,120.96	111.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,922.66	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,921.38	123.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.85	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,674.70	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,076.78	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,102.05	223.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,120.96	111.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,922.66	117.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,921.38	123.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.85	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,674.70	145.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,076.78	167.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,102.05	223.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed reversing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,419.64 67.13	111.88
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,090.89 70.49	117.48
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,139.84 73.85	123.07
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,261.85 87.27	145.45
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,398.51 100.70	167.83
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,669.33 134.27	223.77
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,419.64 67.13	111.88
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,090.89 70.49	117.48
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,139.84 73.85	123.07
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,261.85 87.27	145.45
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,398.51 100.70	167.83
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,669.33 134.27	223.77
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,010.12 107.41	179.02
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,509.60 114.12	190.21
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,660.08 120.83	201.40
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,455.60 137.62	229.36
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,613.38 161.12	268.52
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,010.12 107.41	179.02
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,509.60 114.12	190.21
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,660.08 120.83	201.40
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,455.60 137.62	229.36
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,613.38 161.12	268.52
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,566.99 67.13	111.88
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,958.72 70.49	117.48
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,014.45 73.85	123.07
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,175.32 87.27	145.45
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,566.99 67.13	111.88
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,958.72 70.49	117.48
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,014.45 73.85	123.07
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,175.32 87.27	145.45
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0233	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,911.29	117.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0234	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	12,193.86	128.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.20	
26 24 19 00-0235	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	20,308.57	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0236	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	27,113.22	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0237	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	45,544.32	223.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0238			480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
			Note: Auto-transformer.		
26 24 19 00-0239	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,911.29	117.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.49	
26 24 19 00-0240	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	12,193.86	128.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.20	
26 24 19 00-0241	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	20,308.57	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0242	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	27,113.22	167.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.70	
26 24 19 00-0243	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	45,544.32	223.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.27	
26 24 19 00-0244			230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
			Note: Part winding.		
26 24 19 00-0245	EA		10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,927.10	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0246	EA		25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,518.86	206.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0247	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,367.06	229.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0248	EA		75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,644.85	279.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0249			480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
			Note: Part winding.		
26 24 19 00-0250	EA		15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,927.10	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0251	EA		40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,518.86	206.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0252	EA		75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,367.06	229.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0253	EA		150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,644.85	279.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0254			230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
			Note: Energy saver.		
26 24 19 00-0255	EA		7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,177.58	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0256	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,410.11	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0257	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,643.30	206.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	
26 24 19 00-0258	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	35,789.47	229.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.62	
26 24 19 00-0259	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	48,806.90	279.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.83	
26 24 19 00-0260	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	66,232.55	358.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.83	
26 24 19 00-0261			480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
			Note: Energy saver.		
26 24 19 00-0262	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,177.58	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.27	
26 24 19 00-0263	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,410.11	179.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.41	
26 24 19 00-0264	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,643.30	206.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	35,789.47	229.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>137.62</i>	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	48,806.90	279.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>167.83</i>	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	66,232.55	358.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>214.83</i>	

26 24 19 00-0268

Starter Accessories (26 24 19)

Note: Additional options or accessories for the Combination Starters

26 24 19 00-0269

Starter Modifications (26 24 19 00-0268)

26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	188.55	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	352.34	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	503.66	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	126.48	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	178.43	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	300.39	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	74.53	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	63.24	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	141.50	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	174.94	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	342.17	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	174.94	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	200.67	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	241.83	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	285.57	
26 24 19 00-0285 EA Blank Devices Panel	54.03	
26 24 19 00-0286 EA Oversize Or Special Color Starter	84.90	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	741.07	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non-Resettable	671.60	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	1,003.36	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	84.90	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	120.92	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	84.90	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	120.92	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	120.92	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	174.94	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	434.79	
26 24 19 00-0297 EA Heater Module	79.77	
26 24 19 00-0298 EA LAM - Long Acceleration Module	495.54	
26 24 19 00-0299 EA JAM - Jam Protection Module	568.06	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	1,078.10	
26 24 19 00-0301 EA ULM - Underload Module	517.29	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	113.61	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	212.72	
26 24 19 00-0304 EA Type SIS Control Wire	89.44	
26 24 19 00-0305 EA Ring Or Spade Terminals Control	113.61	
26 24 19 00-0306 EA Ring Terminals Power	113.61	
26 24 19 00-0307 EA 14 Gauge Control Wire	89.44	
26 24 19 00-0308 EA Wiremakers	113.61	
26 24 19 00-0309 EA Wiring Diagram On Door	67.68	
26 24 19 00-0310 EA Special Color Or Type Control Wire	82.19	
26 24 19 00-0311 EA Current Transformer 12.5 VA	645.41	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	2,061.92	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	2,320.57	

26 24 19 00-0314

Control Relays And Special Components (26 24 19 00-0268)

26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays	568.92	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays	672.24	
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays	786.76	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays	875.36	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays	756.12	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays	1,970.32	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays	2,479.92	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays	695.41	
26 24 19 00-0323 EA Phase Voltage, Control Relays	1,182.93	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays	1,655.73	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays	161.89	
26 24 19 00-0326 EA Over-Current Relay, Control Relays	4,612.13	
26 24 19 00-0327 EA UV-Relay, Control Relays	3,906.29	
26 24 19 00-0328 EA Over-Current Relay, Control Relays	3,906.29	
26 24 19 00-0329 EA Teleductor, Control Relays	1,219.72	
26 24 19 00-0330 EA Current Transducer, Control Relays	3,280.19	
26 24 19 00-0331 EA Watt Transducer, Control Relays	6,560.38	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x	222.60	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	332.99	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	375.30	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0335	EA		Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	417.61	
26 24 19 00-0336	EA		Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	375.30	
26 24 19 00-0337	EA		Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	417.61	
26 24 19 00-0338	EA		Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	439.69	
26 24 19 00-0339			Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340	EA		Shunt Trip, Circuit Breaker.....	358.37	
26 24 19 00-0341	EA		Auxiliary Switch, Circuit Breaker.....	123.78	
26 24 19 00-0342	EA		Key Interlock, Circuit Breaker.....	445.22	
26 24 19 00-0343	EA		GFR Ground Fault, Circuit Breaker.....	2,052.39	
26 24 19 00-0344	EA		Seltronic Breaker, Circuit Breaker.....	1,188.91	
26 24 19 00-0345			Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100.....	1,797.12	72.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 24 19 00-0347	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150.....	3,118.07	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0348	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100.....	3,019.16	72.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 24 19 00-0349	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150.....	4,337.54	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0350	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150.....	5,582.73	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0351	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250.....	3,421.95	145.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.29	
26 24 19 00-0352	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400.....	5,579.67	156.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.00	
26 24 19 00-0353	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600.....	7,361.81	201.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.79	
26 24 19 00-0354	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800.....	8,634.71	307.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.67	
26 24 19 00-0355	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200.....	12,218.45	464.33
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	278.82	
26 24 19 00-0356	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000.....	26,928.51	615.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	368.91	
26 24 19 00-0357	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500.....	40,290.18	772.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	462.77	
26 24 19 00-0358	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000.....	67,357.28	894.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	537.52	
26 24 19 00-0359	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	2,165.02	72.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 24 19 00-0360	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	3,475.68	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0361	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	2,165.02	72.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 24 19 00-0362	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	3,475.68	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0363	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	3,700.93	72.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.63	
26 24 19 00-0364	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	5,063.04	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0365	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	6,292.80	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0366	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100.....	3,298.16	111.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.13	
26 24 19 00-0367	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400.....	8,346.57	307.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.67	
26 24 19 00-0368	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225.....	8,346.57	307.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.67	
26 24 19 00-0369	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400.....	11,270.60	335.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	201.31	
26 24 19 00-0370	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600.....	14,083.78	391.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	234.86	
26 24 19 00-0371	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800.....	16,201.01	464.33
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	278.82	
26 24 19 00-0372			Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373	EA		30 To 60 Amperes, Incoming Line And Feeder Fusible Switches.....	1,930.35	111.88
26 24 19 00-0374	EA		Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual.....	2,991.53	111.88
26 24 19 00-0375	EA		100 Amperes, Incoming Line And Feeder Fusible Switches.....	3,104.55	139.86
26 24 19 00-0376	EA		200 Amperes, Incoming Line And Feeder Fusible Switches.....	5,066.95	167.83
26 24 19 00-0377	EA		400 Amperes, Incoming Line And Feeder Fusible Switches.....	10,024.06	212.58
26 24 19 00-0378	EA		600 Amperes, Incoming Line And Feeder Fusible Switches.....	14,066.17	279.71
26 24 19 00-0379	EA		800 Amperes, Incoming Line And Feeder Fusible Switches.....	34,305.00	374.81
26 24 19 00-0380	EA		1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	38,674.32	520.27
26 24 19 00-0381			Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382	EA		500 VA, Phase 1, Dry Type Distribution Transformers.....	1,754.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,811.19	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,870.36	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	2,145.64	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	2,325.73	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,593.72	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	3,164.44	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	3,565.78	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	8,289.28	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	4,399.34	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	6,094.75	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	9,498.45	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	8,796.10	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	12,189.51	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	12,400.53	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	17,177.03	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	828.41	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	1,811.19	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	746.09	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	1,811.19	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	1,005.93	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	1,067.68	
26 24 19 00-0405 EA Add For Additional Circuits	132.95	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	3,735.58	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,913.09	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	3,450.01	
26 24 19 00-0409 EA Add For Demand Attachment	870.21	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	1,031.66	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,780.32	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	2,073.61	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,728.86	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,860.07	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,422.71	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors	31,754.98	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors	46,244.49	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors	60,767.45	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors	92,499.27	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	490.11	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	490.11	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	677.57	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,239.95	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	677.57	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	865.03	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	865.03	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,237.69	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	865.03	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,237.69	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,052.49	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,412.69	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,052.49	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,237.69	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,412.69	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,412.69	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	1,113.94	
26 24 19 00-0439 EA Throat And Transition To Substation	2,150.45	
26 24 19 00-0440 EA Service Entrance Label	465.71	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition	973.45	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus	577.72	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	307.52	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	307.52	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth	951.33	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth	1,073.01	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space	91.81	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof	247.79	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	51.99	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	223.45	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	703.42	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High	223.45	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	454.44	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 24 19 00-0455	EA	Standard Structure NEMA 3R N-Walk In Front Mounted	6,483.09	
26 24 19 00-0456	EA	Standard Structure NEMA 3R N-Walk In Back-to-back	7,493.50	
26 24 19 00-0457	EA	Standard Structure NEMA 3R Walk-In Aisle Front Mounted	7,500.75	
26 24 19 00-0458 Installation Hours For Vertical Sections <small>(26 24 19 00-0268)</small>				
26 24 19 00-0459	EA	Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	671.29	335.66
26 24 19 00-0460	EA	Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,006.93	503.49
26 24 19 00-0461	EA	Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,118.86	559.43
26 24 19 00-0462	EA	Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,342.74	671.31
26 24 19 00-0463	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	111.88	55.94
26 24 19 00-0464	EA	Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	671.29	335.66
26 24 19 00-0465	EA	Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,006.93	503.49
26 24 19 00-0466	EA	Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,118.86	559.43
26 24 19 00-0467	EA	Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,342.74	671.31
26 24 19 00-0468	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	111.88	55.94
26 24 19 00-0469	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	783.22	391.60
26 24 19 00-0470	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,006.93	503.49
26 24 19 00-0471	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,342.74	671.31
26 24 19 00-0472	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,566.21	783.09
26 24 19 00-0473	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	167.82	83.92
26 24 19 00-0474	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	895.08	447.55
26 24 19 00-0475	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,230.85	615.37
26 24 19 00-0476	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,566.21	783.09
26 24 19 00-0477	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,789.87	894.97
26 24 19 00-0478	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	223.77	111.88
26 24 19 00-0479	EA	Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	895.08	447.55
26 24 19 00-0480	EA	Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,342.74	671.31
26 24 19 00-0481	EA	Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,678.11	839.03
26 24 19 00-0482	EA	Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	1,902.18	951.15
26 24 19 00-0483	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	223.77	111.88
26 24 19 00-0484 Motor Control Centers <small>(26 24 19)</small>				
26 24 19 00-0485 2.4 KV Motor Control Centers <small>(26 24 19 00-0484)</small>				
26 24 19 00-0486	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	12,597.88	223.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.27</i>	
26 24 19 00-0487	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	12,597.88	223.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.27</i>	
26 24 19 00-0488	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	12,597.88	223.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.27</i>	
26 24 19 00-0489	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	12,653.85	251.74
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>151.06</i>	
26 24 19 00-0490	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	13,445.46	279.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>167.83</i>	
26 24 19 00-0491	EA	2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	13,501.38	307.69
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>184.61</i>	
26 24 19 00-0492	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	13,557.32	335.66
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>201.39</i>	
26 24 19 00-0493	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	13,669.25	391.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>234.97</i>	
26 24 19 00-0494	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	13,781.11	447.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>268.52</i>	
26 24 19 00-0495	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	23,063.30	503.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>302.08</i>	
26 24 19 00-0496	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	24,765.55	559.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>335.66</i>	
26 24 19 00-0497	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	18,629.19	223.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.27</i>	
26 24 19 00-0498	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	19,411.84	240.56
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>144.33</i>	
26 24 19 00-0499	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	22,047.17	262.93
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>157.76</i>	
26 24 19 00-0500	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	24,533.10	279.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>167.83</i>	
26 24 19 00-0501	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	26,703.44	324.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>194.69</i>	
26 24 19 00-0502	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	29,252.55	346.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>208.11</i>	
26 24 19 00-0503	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	31,800.13	369.22
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>221.52</i>	
26 24 19 00-0504	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	34,826.52	402.79
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>241.68</i>	
26 24 19 00-0505	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	40,514.80	447.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>268.52</i>	
26 24 19 00-0506	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	43,889.68	475.51
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>285.33</i>	
26 24 19 00-0507	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	66,931.27	559.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>335.66</i>	
26 24 19 00-0508	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	71,323.74	615.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>369.26</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75,151.33 402.82	671.31
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81,829.72 436.43	727.37
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,584.34 134.27	223.77
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,640.31 151.06	251.74
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,696.22 167.83	279.71
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,752.14 184.61	307.69
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,811.05 201.39	335.66
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,867.04 218.18	363.63
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,922.98 234.97	391.60
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,146.69 302.08	503.49
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,747.82 335.66	559.43
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,859.81 369.26	615.37
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,553.10 402.82	671.31
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,926.89 67.13	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,134.96 67.13	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,887.82 67.13	
26 24 19 00-0525 4.8 KV Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,765.40 201.39	335.66
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,821.39 218.18	363.63
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,877.33 234.97	391.60
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,933.30 251.76	419.57
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,717.47 268.52	447.55
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,773.49 285.33	475.51
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,829.32 302.08	503.49
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,885.37 318.89	531.45
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,941.25 335.66	559.43
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,183.19 436.43	727.37
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,294.64 469.86	783.09
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,989.43 503.43	839.03
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,101.19 536.96	894.97
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,063.99 201.39	335.66
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,328.05 218.18	363.63
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,520.04 234.97	391.60
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,020.94 251.76	419.57
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,157.62 268.52	447.55
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,718.02 285.33	475.51
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,122.17 302.08	503.49
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,291.97 318.89	531.45
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,847.08 335.66	559.43
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,627.67 352.45	587.40
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,464.19 386.02	643.35

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,625.03 402.82	671.31
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54,607.34 419.57	699.29
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,773.09 436.43	727.37
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93,010.21 536.96	894.97
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103,407.57 570.65	951.15
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124,215.67 604.16	1,006.98
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131,357.24 604.16	1,006.98
26 24	19 00-0557	EA	4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,860.82 234.97	391.60
26 24	19 00-0558	EA	4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,916.79 251.76	419.57
26 24	19 00-0559	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,972.68 268.52	447.55
26 24	19 00-0560	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,028.70 285.33	475.51
26 24	19 00-0561	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,651.07 302.08	503.49
26 24	19 00-0562	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,707.12 318.89	531.45
26 24	19 00-0563	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,763.00 335.66	559.43
26 24	19 00-0564	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,818.97 352.45	587.40
26 24	19 00-0565	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,874.99 369.26	615.37
26 24	19 00-0566	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,210.35 469.86	783.09
26 24	19 00-0567	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,019.53 503.43	839.03
26 24	19 00-0568	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,706.74 536.96	894.97
26 24	19 00-0569	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,706.74 536.96	894.97
26 24	19 00-0570	EA	Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,409.90 67.13	
26 24	19 00-0571	EA	Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,726.10 67.13	
26 24	19 00-0572	EA	Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,428.98 67.13	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)					
26 24	19 00-0574	EA	2.4/4.8 KV Load Break Disconnect Switch 600 Amperes	13,547.23	223.77
26 24	19 00-0575	EA	2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	16,280.23	335.66
26 24	19 00-0576	EA	2.4/4.8 KV NEMA 3 Weather Resistant	5,332.47	
26 24	19 00-0577	EA	2.4/4.8 KV Space Heaters	260.40	16.78
26 24	19 00-0578	EA	2.4/4.8 KV Potential Transformer Fused	1,544.86	
26 24	19 00-0579	EA	2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	828.89	
26 24	19 00-0580	EA	2.4/4.8 KV Control Transformer 4 KVA Max	2,468.61	
26 24	19 00-0581	EA	2.4/4.8 KV Pushbuttons Each	158.10	
26 24	19 00-0582	EA	2.4/4.8 KV Selector Switch Each	523.99	
26 24	19 00-0583	EA	2.4/4.8 KV Indicating Light	158.10	
26 24	19 00-0584	EA	2.4/4.8 KV Push To Test Light	478.82	
26 24	19 00-0585	EA	2.4/4.8 KV AC Voltmeter, Switchboard Type	1,273.83	
26 24	19 00-0586	EA	2.4/4.8 KV AC Ammeter, Switchboard Type	1,273.83	
26 24	19 00-0587	EA	2.4/4.8 KV Power Factor Meter	3,810.20	
26 24	19 00-0588	EA	2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,626.71	
26 24	19 00-0589	EA	2.4/4.8 KV Operation Counter	512.39	16.78
26 24	19 00-0590	EA	2.4/4.8 KV Phase Failure Protection	3,684.93	55.94
26 24	19 00-0591	EA	2.4/4.8 KV Ground Protection	7,039.42	27.98
26 24	19 00-0592	EA	2.4/4.8 KV Synchronous Motor DC Protection	2,083.22	27.98
26 24	19 00-0593	EA	2.4/4.8 KV Lightning Arresters	5,334.62	16.78
26 24	19 00-0594	EA	2.4/4.8 KV Portable Lifting Mechanism	7,727.07	
26 24	19 00-0595	EA	2.4/4.8 KV Auxiliary Timing Relay	719.28	55.94
26 24	19 00-0596	EA	2.4/4.8 KV Auxiliary Control Relay	513.55	55.94
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)					
Note: 3 Pole. Includes structure.					
26 24	19 00-0598	EA	Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included	1,124.76	335.50
26 24	19 00-0599	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included	1,956.97	593.86
26 24	19 00-0600	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	2,363.66	760.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	3,777.49	1,224.45
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,418.79	1,346.89
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,595.47	1,493.82
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	6,518.21	1,750.96
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	10,803.19	2,039.94
26 24 19 00-0606 Main Lugs Only <small>(26 24 19 00-0484)</small>		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs	961.25	428.56
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs	1,047.93	428.56
26 24 19 00-0609 EA 1,200 Amperes Incoming Section, Main Lugs.....	1,487.55	673.45
26 24 19 00-0610 EA 2,000 Amperes Incoming Section, Main Lugs.....	3,446.74	1,224.45
26 24 19 00-0611 EA 3,000 Amperes Incoming Section, Main Lugs.....	5,211.94	1,775.45
26 24 19 00-0612 EA 4,000 Amperes Incoming Section, Main Lugs.....	7,385.59	2,448.90
26 24 19 00-0613 Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614 EA 225 Amperes, Main Circuit Breaker Section	5,433.53	592.51
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615 EA 400 Amperes, Main Circuit Breaker Section	11,292.15	761.12
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616 EA 600 Amperes, Main Circuit Breaker Section	11,917.21	1,185.51
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617 EA 800 Amperes, Main Circuit Breaker Section	16,689.55	1,185.51
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 EA 1,200 Amperes, Main Circuit Breaker Section	23,973.78	1,341.38
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620 EA 200 Amperes, Fusible Main Disconnect Section.....	4,756.34	593.25
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621 EA 400 Amperes, Fusible Main Disconnect Section.....	6,539.14	761.48
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622 EA 600 Amperes, Fusible Main Disconnect Section.....	12,628.28	1,186.49
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623 EA 800 Amperes, Fusible Main Disconnect Section.....	14,585.99	1,186.49
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0624 EA 1,200 Amperes, Fusible Main Disconnect Section..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	20,382.59 182.00 334.00 97.00 245.00 108.00	1,342.61
26 24 19 00-0625 Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626 Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	916.07 141.72	248.57
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,058.85 156.98	248.57
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,522.64 211.11	352.64
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,422.97 278.28	464.06
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,210.84 347.86	580.38
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	856.92 122.45	216.73
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	995.21 137.89	216.73
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,446.85 188.38	313.46
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,345.67 255.09	424.88
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,148.49 329.15	542.43
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	887.20 110.91	200.81
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,036.94 130.26	200.81
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,528.88 180.07	299.99
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,434.67 248.87	415.09
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,227.23 318.87	532.64
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	941.29 168.19	297.54
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,259.84 187.80	297.54
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,758.96 237.30	396.72
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,797.44 306.11	508.15
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,882.03 373.31	620.80
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,129.94 161.11	281.62
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,289.06 175.93	281.62
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,846.55 230.16	384.47
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,877.46 297.20	495.90
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,978.41 368.81	612.22
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	844.15 137.89	228.97
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,253.29 187.80	313.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,939.87 244.89	407.74
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,662.38 343.94	571.82
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,503.55 437.30	728.55
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	842.18 122.45	204.48
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,137.42 168.19	280.40
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,659.81 225.08	374.68
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,727.10 325.65	541.21
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,551.17 413.67	688.14
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	876.79 114.65	191.02
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,181.38 156.98	259.58
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,778.87 218.65	361.22
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,845.00 318.87	532.64
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,321.74 408.15	680.79
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,079.34 171.97	286.52
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,386.47 214.07	357.54
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,976.69 275.78	460.39
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,144.76 373.31	620.80
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,221.14 463.81	775.07
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,103.74 161.11	269.37
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,430.00 202.73	337.95
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,070.18 263.89	439.57
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,248.25 364.42	606.10
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,316.17 450.16	750.58
26 24 19 00-0687 Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688 Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	267.46	83.26
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	267.46	83.26
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	396.33	121.22
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	478.89	159.18
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	789.87	242.44
26 24 19 00-0694 Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	267.46	83.26
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	360.69	121.22
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	496.33	159.18
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	838.53	242.44
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,176.96	352.64
26 24 19 00-0700 Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	101.55	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	101.55	

26 Electrical
26 20 Low-Voltage Electrical Distribution
 26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0703	EA		Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	153.96	
26 24 19 00-0704	EA		Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	153.96	
26 24 19 00-0705	EA		Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	306.28	
26 24 19 00-0706			Structure Combination Of Starters To 72" High (26 24 19 00-0687)		
26 24 19 00-0707	EA		Structure Combination Of Starters To 72" High	2,939.67	644.43
26 24 19 00-0708			Motor Control Center Basic Distribution Section (26 24 19 00-0484)		
26 24 19 00-0709	EA		20" Wide Basic Section With Vertical Wireway	5,250.26	1,678.23
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710	EA		25" To 35" Wide Basic Section (No Vertical Wireway)	5,250.26	1,678.23
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711	EA		25" Wide Basic Section With 9" Wide Vertical Wireway	5,696.50	1,678.23
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712	EA		Corner Section	5,696.50	1,678.23
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0713			Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)		
			Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714			FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0715	EA		Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,247.84	235.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.41	
26 24 19 00-0716	EA		Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,388.39	261.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.85	
26 24 19 00-0717	EA		Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	2,348.72	351.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.87	
26 24 19 00-0718	EA		Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	3,380.14	463.33
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.03	
26 24 19 00-0719	EA		Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	7,432.09	579.04
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	347.46	
26 24 19 00-0720	EA		Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	16,938.55	579.04
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	347.46	
26 24 19 00-0721	EA		Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,240.30	203.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.32	
26 24 19 00-0722	EA		Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,398.64	229.58
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.75	
26 24 19 00-0723	EA		Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	2,375.08	313.46
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.07	
26 24 19 00-0724	EA		Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	3,360.08	424.88
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	254.95	
26 24 19 00-0725	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	7,427.93	548.55
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	329.15	
26 24 19 00-0726	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	17,036.68	548.55
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	329.15	
26 24 19 00-0727			Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0728	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	1,951.29	294.97
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	176.95	
26 24 19 00-0729	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,373.57	326.31
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,854.82	438.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.13	
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	6,531.46	579.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	347.86	
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	11,611.16	725.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	435.23	
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	1,956.11	254.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.80	
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,397.56	287.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.29	
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,893.42	392.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.47	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	6,520.13	531.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	318.87	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	11,618.39	686.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	411.81	
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,121.90	294.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	176.95	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,966.16	326.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.81	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	5,496.09	438.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.13	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,474.36	579.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	347.86	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	14,733.32	725.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	435.23	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,126.72	254.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.80	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,990.15	287.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.29	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	5,534.69	392.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.47	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,463.04	531.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	318.87	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	14,740.55	686.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	411.81	
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small>		
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,029.47	229.82
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,349.24	312.36
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,184.70	407.01
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	3,619.19	573.28
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	7,029.79	728.79
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	17,179.94	728.79
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,032.80	203.75
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,358.07	279.79
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,223.20	375.17
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	3,615.08	542.80
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	7,007.88	689.48
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	17,260.39	689.48
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,711.66	287.74
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,378.94	390.47
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,628.46	508.51
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	7,407.36	718.63
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	11,863.93	840.95
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,730.15	254.69
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,399.29	349.46
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,681.26	469.45
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	7,409.99	677.24
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	11,853.38	793.07
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	1,968.71	287.74
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,980.62	390.47
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	5,286.79	508.51
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,753.13	718.63
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	14,351.42	840.95
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	1,987.96	254.69
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,000.98	349.46
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	5,339.59	469.45



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 24 19 00-0783	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,755.76	677.24
26 24 19 00-0784	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	14,340.87	793.07
26 24 19 00-0785		Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)		
		Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786	EA	600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	203.56	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.20	
26 24 19 00-0787	EA	800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	247.54	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.20	
26 24 19 00-0788	EA	1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	297.66	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.05	
26 24 19 00-0789	EA	1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	384.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.05	
26 24 19 00-0790	EA	2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	638.96	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.89	
26 24 19 00-0791	EA	1/4" x 2" Horizontal Bus Kit.....	118.57	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.37	
26 24 19 00-0792		Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793		3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
		Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794	EA	150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	867.20	176.93
26 24 19 00-0795	EA	150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,474.33	195.91
26 24 19 00-0796	EA	225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,808.11	263.87
26 24 19 00-0797	EA	400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,965.93	347.74
26 24 19 00-0798	EA	600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,061.03	434.68
26 24 19 00-0799	EA	800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,750.09	434.68
26 24 19 00-0800	EA	1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	11,712.45	544.27
26 24 19 00-0801		Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
		Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802	EA	30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	719.40	172.03
26 24 19 00-0803	EA	60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	867.08	234.48
26 24 19 00-0804	EA	100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,175.51	299.99
26 24 19 00-0805	EA	200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,114.17	429.78
26 24 19 00-0806	EA	400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	3,626.25	546.59
26 24 19 00-0807	EA	600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	7,902.87	546.59
26 24 19 00-0808	EA	800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	9,774.23	683.24
26 24 19 00-0809	EA	1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	14,251.04	683.24
26 24 19 00-0810		Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811	EA	Control Circuit Transformer, Size 1 Factory Installed.....	54.17	
26 24 19 00-0812	EA	Control Circuit Transformer, Size 2 Factory Installed.....	54.17	
26 24 19 00-0813	EA	Control Circuit Transformer, Size 3 Factory Installed.....	104.34	
26 24 19 00-0814	EA	Control Circuit Transformer, Size 4 Factory Installed.....	104.34	
26 24 19 00-0815	EA	Control Circuit Transformer, Size 5 Factory Installed.....	144.95	
26 24 19 00-0816	EA	Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	49.26	13.87
26 24 19 00-0817		Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818	EA	Control Device, 2 Unit Push Button Station Cover Mounted.....	105.19	24.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.31	
26 24 19 00-0819	EA	Control Device, 2-3 Unit Selector Switch Cover Mounted.....	119.95	24.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13	
26 24 19 00-0820	EA	Control Device, Pilot Light Cover Mounted.....	96.41	24.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.47	
26 24 19 00-0821	EA	Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	279.64	83.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.18	
26 24 19 00-0822	EA	Auxiliary Contact Add Per Starter.....	296.65	31.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.03	
26 24 19 00-0823		Extra Interlocks (26 24 19 00-0484)		
		Note: Per contact.		
26 24 19 00-0824	EA	Extra Interlocks, Class I, Type A Per Contact.....	69.93	15.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.47	
26 24 19 00-0825	EA	Extra Interlocks, Class I, Type B Per Contact.....	92.58	15.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.47	
26 24 19 00-0826	EA	Extra Interlocks, Class I, Type C Per Contact.....	99.82	15.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.56	
26 24 19 00-0827	EA	Extra Interlocks, Class II, Type B Per Contact.....	88.92	15.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.65	
26 24 19 00-0828	EA	Extra Interlocks, Class II, Type C Per Contact.....	91.72	15.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.78	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0829				Special Cabinet Provisions <small>(26 24 19 00-0484)</small>		
26 24 19 00-0830	EA			Provisions For Bus Duct Entrance Special Cabinet Provisions	678.19	
26 24 19 00-0831				Nameplate Requirements <small>(26 24 19 00-0484)</small>		
26 24 19 00-0832	EA			Special Cabinet Nameplate Requirements	24.08	
26 24 19 00-0833				Auxiliary Relays <small>(26 24 19 00-0484)</small>		
26 24 19 00-0834	EA			Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....	150.55	30.68
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 24 19 00-0835	EA			Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay	143.30	27.62
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 24 19 00-0836	EA			General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base	89.24	27.62
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 24 19 00-0837				Motor Control Center Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0838				Lighting Transformer With Circuit Breaker <small>(26 24 19 00-0837)</small>		
				Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839	EA			1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,159.04	392.82
26 24 19 00-0840	EA			1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,324.23	408.54
26 24 19 00-0841	EA			1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,727.08	439.96
26 24 19 00-0842	EA			1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,893.94	471.40
26 24 19 00-0843	EA			1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,847.17	502.82
26 24 19 00-0844	EA			1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,608.71	565.67
26 24 19 00-0845	EA			1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,557.41	628.53
26 24 19 00-0846	EA			3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,424.35	518.53
26 24 19 00-0847	EA			3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,067.55	565.67
26 24 19 00-0848	EA			3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,216.07	628.53
26 24 19 00-0849	EA			3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,791.84	691.37
26 24 19 00-0850	EA			3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,766.56	754.23
26 24 19 00-0851	EA			3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,163.98	817.08
26 24 19 00-0852				Bolt-On Lighting Panel <small>(26 24 19 00-0837)</small>		
				Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853	EA			18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,010.11	637.20
26 24 19 00-0854	EA			30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,196.36	1,109.10
26 24 19 00-0855	EA			42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,262.11	1,500.56
26 24 19 00-0856	EA			18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,114.60	689.48
26 24 19 00-0857	EA			30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,149.17	1,085.47
26 24 19 00-0858	EA			42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,449.68	1,594.35
26 24 19 00-0859	EA			18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	3,211.46	739.08
26 24 19 00-0860	EA			30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	4,385.01	1,186.49
26 24 19 00-0861	EA			42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	5,539.31	1,594.35
26 24 19 00-0862	EA			18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	3,327.70	797.12
26 24 19 00-0863	EA			30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	4,385.01	1,186.49
26 24 19 00-0864	EA			42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	5,642.16	1,645.78
26 24 19 00-0865				Factory Installed Bolt-On Branch Circuit Breaker <small>(26 24 19 00-0837)</small>		
				Note: For MCC lighting panel only.		
26 24 19 00-0866	EA			15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	20.59	
26 24 19 00-0867	EA			15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker	209.01	
26 24 19 00-0868	EA			15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	40.24	
26 24 19 00-0869	EA			60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	92.65	
26 24 19 00-0870	EA			15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	108.56	
26 24 19 00-0871	EA			60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	164.71	
26 24 19 00-0872				Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small>		
				Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873	EA			6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	55.74	
26 24 19 00-0874	EA			12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	66.88	
26 24 19 00-0875	EA			18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	100.32	
26 24 19 00-0876	EA			24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	133.77	
26 24 19 00-0877	EA			30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	200.65	
26 24 19 00-0878	EA			48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	234.09	
26 24 19 00-0879	EA			72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	267.53	

26 25 Enclosed Bus Assemblies (26 20)

26 25 13 Low-Voltage Busways (26 25)

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0001			Plug-In Bus Duct <small>(26 25 13)</small>		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002			600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003	LF		225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	283.23	36.73
			For Up To 25, Add	70.81	
			For >25 To 50, Add	42.48	
			For >50 To 100, Add	21.24	
26 25 13 00-0004	LF		400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	398.80	36.73
			For Up To 25, Add	99.70	
			For >25 To 50, Add	59.82	
			For >50 To 100, Add	29.91	
26 25 13 00-0005	LF		600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	504.36	48.98
			For Up To 25, Add	126.09	
			For >25 To 50, Add	75.65	
			For >50 To 100, Add	37.83	
26 25 13 00-0006	LF		800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	693.46	48.98
			For Up To 25, Add	173.37	
			For >25 To 50, Add	104.02	
			For >50 To 100, Add	52.01	
26 25 13 00-0007	LF		1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	731.75	61.22
			For Up To 25, Add	182.94	
			For >25 To 50, Add	109.76	
			For >50 To 100, Add	54.88	
26 25 13 00-0008	LF		1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,015.85	61.22
			For Up To 25, Add	253.96	
			For >25 To 50, Add	152.38	
			For >50 To 100, Add	76.19	
26 25 13 00-0009	LF		1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,187.06	64.28
			For Up To 25, Add	296.77	
			For >25 To 50, Add	178.06	
			For >50 To 100, Add	89.03	
26 25 13 00-0010	LF		2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,442.58	66.12
			For Up To 25, Add	360.65	
			For >25 To 50, Add	216.39	
			For >50 To 100, Add	108.19	
26 25 13 00-0011	LF		2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,777.68	69.79
			For Up To 25, Add	444.42	
			For >25 To 50, Add	266.65	
			For >50 To 100, Add	133.33	
26 25 13 00-0012	LF		3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,052.80	81.43
			For Up To 25, Add	513.20	
			For >25 To 50, Add	307.92	
			For >50 To 100, Add	153.96	
26 25 13 00-0013	LF		4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,374.39	88.77
			For Up To 25, Add	593.60	
			For >25 To 50, Add	356.16	
			For >50 To 100, Add	178.08	
26 25 13 00-0014			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015	LF		225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	458.06	36.73
			For Up To 25, Add	114.52	
			For >25 To 50, Add	68.71	
			For >50 To 100, Add	34.35	
26 25 13 00-0016	LF		400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	659.04	36.73
			For Up To 25, Add	164.76	
			For >25 To 50, Add	98.86	
			For >50 To 100, Add	49.43	
26 25 13 00-0017	LF		600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	745.15	48.98
			For Up To 25, Add	186.29	
			For >25 To 50, Add	111.77	
			For >50 To 100, Add	55.89	
26 25 13 00-0018	LF		800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	945.81	48.98
			For Up To 25, Add	236.45	
			For >25 To 50, Add	141.87	
			For >50 To 100, Add	70.94	
26 25 13 00-0019	LF		1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,152.49	61.22
			For Up To 25, Add	288.12	
			For >25 To 50, Add	172.87	
			For >50 To 100, Add	86.44	
26 25 13 00-0020	LF		1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,490.48	61.22
			For Up To 25, Add	372.62	
			For >25 To 50, Add	223.57	
			For >50 To 100, Add	111.79	
26 25 13 00-0021	LF		1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,924.99	63.43
			For Up To 25, Add	481.25	
			For >25 To 50, Add	288.75	
			For >50 To 100, Add	144.37	
26 25 13 00-0022	LF		2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,316.10	66.12
			For Up To 25, Add	579.03	
			For >25 To 50, Add	347.42	
			For >50 To 100, Add	173.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,869.68	69.18
For Up To 25, Add	717.42	
For >25 To 50, Add	430.45	
For >50 To 100, Add	215.23	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,312.83	81.43
For Up To 25, Add	828.21	
For >25 To 50, Add	496.92	
For >50 To 100, Add	248.46	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,838.95	88.77
For Up To 25, Add	959.74	
For >25 To 50, Add	575.84	
For >50 To 100, Add	287.92	
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,300.29	171.42
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,380.76	171.42
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,575.90	232.64
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,743.58	232.64
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,944.08	306.11
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,226.18	306.11
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,380.76	336.73
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,589.95	336.73
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,770.44	459.17
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,113.56	459.17
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,277.89	612.22
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,727.88	612.22
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,042.18	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.98	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	2,061.88	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.99	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	1,998.53	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.98	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,588.39	122.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.99	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,200.00	146.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.53	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,434.59	146.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.66	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,370.83	146.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.53	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,103.53	146.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.66	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,092.55	508.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	220.22	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	7,369.55	508.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	478.30	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	8,265.55	1,469.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	665.46	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	10,425.41	1,469.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,177.35	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,039.83	122.44
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,143.31	122.44
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,578.15	146.93
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,664.78	293.86
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,721.06	661.20
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,069.37	1,150.98

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0066			600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067	EA		30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,079.56	134.69
26 25 13 00-0068	EA		60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,180.48	134.69
26 25 13 00-0069	EA		100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,590.02	134.69
26 25 13 00-0070	EA		200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,728.30	281.62
26 25 13 00-0071	EA		400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,688.36	636.71
26 25 13 00-0072	EA		600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,301.27	1,224.45
26 25 13 00-0073	EA		800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	16,856.31	1,591.78
26 25 13 00-0074			120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075	EA		30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,202.93	159.18
26 25 13 00-0076	EA		60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,293.45	159.18
26 25 13 00-0077	EA		100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,748.63	159.18
26 25 13 00-0078	EA		200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,963.85	330.61
26 25 13 00-0079	EA		400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	7,379.24	734.67
26 25 13 00-0080	EA		600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,744.60	1,126.49
26 25 13 00-0081			277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082	EA		30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,242.22	159.18
26 25 13 00-0083	EA		60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,332.73	135.05
26 25 13 00-0084	EA		100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,864.50	183.66
26 25 13 00-0085	EA		200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,087.85	330.61
26 25 13 00-0086	EA		400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	7,379.24	734.67
26 25 13 00-0087	EA		600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,744.60	1,126.49
26 25 13 00-0088	EA		800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	16,980.90	1,493.82
26 25 16			Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001			Feeder Bus Duct <small>(26 25 16)</small>		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002			600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
			Note: Copper conductors.		
26 25 16 00-0003	LF		800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	829.12	51.43
			For Up To 25, Add	207.28	
			For >25 To 50, Add	124.37	
			For >50 To 100, Add	62.18	
26 25 16 00-0004	LF		1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	840.78	51.43
			For Up To 25, Add	210.20	
			For >25 To 50, Add	126.12	
			For >50 To 100, Add	63.06	
26 25 16 00-0005	LF		1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,099.16	51.43
			For Up To 25, Add	274.79	
			For >25 To 50, Add	164.87	
			For >50 To 100, Add	82.44	
26 25 16 00-0006	LF		1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,319.32	51.43
			For Up To 25, Add	329.83	
			For >25 To 50, Add	197.90	
			For >50 To 100, Add	98.95	
26 25 16 00-0007	LF		2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,612.08	51.43
			For Up To 25, Add	403.02	
			For >25 To 50, Add	241.81	
			For >50 To 100, Add	120.91	
26 25 16 00-0008	LF		3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,200.11	122.44
			For Up To 25, Add	550.03	
			For >25 To 50, Add	330.02	
			For >50 To 100, Add	165.01	
26 25 16 00-0009	LF		4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,039.56	122.44
			For Up To 25, Add	759.89	
			For >25 To 50, Add	455.93	
			For >50 To 100, Add	227.97	
26 25 16 00-0010	LF		5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,596.21	122.44
			For Up To 25, Add	899.05	
			For >25 To 50, Add	539.43	
			For >50 To 100, Add	269.72	
26 25 16 00-0011	LF		6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,428.54	122.44
			For Up To 25, Add	1,107.14	
			For >25 To 50, Add	664.28	
			For >50 To 100, Add	332.14	
26 25 16 00-0012			277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
			Note: Low impedance, copper conductors.		
26 25 16 00-0013	LF		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	949.88	55.10
			For Up To 25, Add	237.47	
			For >25 To 50, Add	142.48	
			For >50 To 100, Add	71.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	965.28	55.10
<i>For Up To 25, Add</i>	241.32	
<i>For >25 To 50, Add</i>	144.79	
<i>For >50 To 100, Add</i>	72.40	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,241.10	55.10
<i>For Up To 25, Add</i>	310.28	
<i>For >25 To 50, Add</i>	186.17	
<i>For >50 To 100, Add</i>	93.08	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,471.21	55.10
<i>For Up To 25, Add</i>	367.80	
<i>For >25 To 50, Add</i>	220.68	
<i>For >50 To 100, Add</i>	110.34	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,776.85	55.10
<i>For Up To 25, Add</i>	444.21	
<i>For >25 To 50, Add</i>	266.53	
<i>For >50 To 100, Add</i>	133.26	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,729.12	94.28
<i>For Up To 25, Add</i>	682.28	
<i>For >25 To 50, Add</i>	409.37	
<i>For >50 To 100, Add</i>	204.68	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,422.73	94.28
<i>For Up To 25, Add</i>	855.68	
<i>For >25 To 50, Add</i>	513.41	
<i>For >50 To 100, Add</i>	256.70	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,050.07	175.09
<i>For Up To 25, Add</i>	1,012.52	
<i>For >25 To 50, Add</i>	607.51	
<i>For >50 To 100, Add</i>	303.76	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,993.48	175.09
<i>For Up To 25, Add</i>	1,248.37	
<i>For >25 To 50, Add</i>	749.02	
<i>For >50 To 100, Add</i>	374.51	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R. See CSI section 26 27 13 00-0013 for meter.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	276.63	79.59
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	293.16	79.59
26 27 13 00-0005 EA 150 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	327.15	88.77
26 27 13 00-0006 EA 150 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	337.76	88.77
26 27 13 00-0007 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	377.66	97.95
26 27 13 00-0008 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	382.36	97.95
26 27 13 00-0009 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	982.52	155.50
26 27 13 00-0010 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,253.95	173.87
26 27 13 00-0011 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,718.58	192.24
26 27 13 00-0012 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,785.44	612.22

26 27 13 00-0013 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand. See CSI section 26 27 13 00-0002 for socket base.

26 27 13 00-0014 EA 100 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	272.62	24.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.06	
26 27 13 00-0015 EA 150 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	322.17	25.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 27 13 00-0016 EA 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	393.95	25.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.43	
26 27 13 00-0017 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	767.41	26.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.65	
26 27 13 00-0018 EA 320 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	1,074.45	27.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.57	
26 27 13 00-0019 EA 400 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	1,742.19	30.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	

26 27 13 00-0020 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0021 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	572.75	159.18
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26 27 13 00-0022 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0023 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0022)

26 27 13 00-0024 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,061.96	76.53
26 27 13 00-0025 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,397.32	91.83
26 27 13 00-0026 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,730.90	107.14
26 27 13 00-0027 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,005.68	122.44
26 27 13 00-0028 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,610.15	137.75
26 27 13 00-0029 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,818.98	153.05

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0030 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,290.12	183.66
26 27 13 00-0031 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole <small>(26 27 13 00-0022)</small>		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,953.06	76.53
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,571.79	91.83
26 27 13 00-0034 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,541.94	122.44
26 27 13 00-0035 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,928.97	137.75
26 27 13 00-0036 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,939.77	153.05
26 27 13 00-0037 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0022)</small>		
26 27 13 00-0038 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,625.76	107.14
26 27 13 00-0039 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,134.00	122.44
26 27 13 00-0040 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,610.15	137.75
26 27 13 00-0041 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,068.49	153.05
26 27 13 00-0042 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,865.43	168.36
26 27 13 00-0043 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,056.46	183.66
26 27 13 00-0044 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,026.57	214.28
26 27 13 00-0045 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0022)</small>		
26 27 13 00-0046 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,513.28	107.14
26 27 13 00-0047 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,292.42	122.44
26 27 13 00-0048 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,636.80	153.05
26 27 13 00-0049 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,970.38	168.36
26 27 13 00-0050 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,355.43	183.66
26 27 13 00-0051 120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0052 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0051)</small>		
26 27 13 00-0053 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,156.73	91.83
26 27 13 00-0054 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,511.70	107.14
26 27 13 00-0055 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,864.89	122.44
26 27 13 00-0056 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,164.61	137.75
26 27 13 00-0057 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,658.59	153.05
26 27 13 00-0058 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,867.41	168.36
26 27 13 00-0059 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,534.60	198.97
26 27 13 00-0060 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0051)</small>		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,054.96	91.83
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,709.34	107.14
26 27 13 00-0063 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,911.14	137.75
26 27 13 00-0064 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,298.19	153.05
26 27 13 00-0065 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,202.11	168.36
26 27 13 00-0066 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0051)</small>		
26 27 13 00-0067 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,720.55	122.44
26 27 13 00-0068 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,235.92	137.75
26 27 13 00-0069 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,765.55	153.05
26 27 13 00-0070 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,223.89	168.36
26 27 13 00-0071 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,056.51	183.66
26 27 13 00-0072 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,247.48	198.97
26 27 13 00-0073 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,288.92	229.58
26 27 13 00-0074 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0051)</small>		
26 27 13 00-0075 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,633.03	122.44
26 27 13 00-0076 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.62	137.75
26 27 13 00-0077 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,970.42	168.36
26 27 13 00-0078 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,197.05	183.66
26 27 13 00-0079 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,599.95	198.97
26 27 13 00-0080 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0081 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0080)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,061.96	76.53
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,397.32	91.83
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,005.68	122.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,610.15	137.75
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,228.88	153.05
26 27 13 00-0087 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0080)</small>		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,953.05	76.53
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,571.78	91.83
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,720.14	122.44
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,107.18	137.75
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,939.77	153.05
26 27 13 00-0093 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0080)</small>		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,625.76	107.14
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,134.00	122.44
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,068.49	153.05
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,865.43	168.36
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,056.46	183.66
26 27 13 00-0099 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0080)</small>		
26 27 13 00-0100 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,513.30	107.14
26 27 13 00-0101 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,292.42	122.44
26 27 13 00-0102 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,636.80	153.05
26 27 13 00-0103 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,970.38	168.36
26 27 13 00-0104 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,355.47	183.66
26 27 13 00-0105 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0106 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0105)</small>		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,156.73	91.83
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,511.70	107.14
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,164.61	137.75
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,836.80	153.05
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,223.85	168.36
26 27 13 00-0112 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0105)</small>		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,054.95	91.83
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,709.32	107.14
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,732.93	137.75
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,119.97	153.05
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,202.07	168.36
26 27 13 00-0118 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0105)</small>		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,720.53	122.44
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,235.90	137.75
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,223.85	168.36
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,056.46	183.66
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,247.48	198.97
26 27 13 00-0124 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0105)</small>		
26 27 13 00-0125 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,633.01	122.44
26 27 13 00-0126 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.60	137.75
26 27 13 00-0127 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,970.38	168.36
26 27 13 00-0128 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,197.05	183.66
26 27 13 00-0129 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,599.95	198.97
26 27 13 00-0130 Watt/Hour Meters <small>(26 27 13)</small>		
26 27 13 00-0131 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,220.76	73.47
26 27 13 00-0132 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	3,439.38	146.93
26 27 13 00-0133 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,827.20	110.20
26 27 13 00-0134 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,234.22	110.20
26 27 13 00-0135 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,886.99	110.20
26 27 13 00-0136 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,277.41	101.63
26 27 13 00-0137 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,184.00	183.66



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 27 13 00-0138	Watt/Hour Meter Systems <small>(26 27 13)</small>			
	Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.			
26 27 13 00-0139	Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0138)</small>			
26 27 13 00-0140	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,601.22	734.79
26 27 13 00-0141	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	6,561.78	734.79
26 27 13 00-0142	Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0138)</small>			
26 27 13 00-0143	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	9,818.55	734.79
26 27 13 00-0144	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,913.10	734.79
26 27 13 00-0145	EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	12,801.38	734.79
26 27 16	Electrical Cabinets and Enclosures <small>(26 27)</small>			
	Note: Can be used as enclosure or pull/junction boxes.			
26 27 16 00-0001	NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>			
26 27 16 00-0002	Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>			
26 27 16 00-0003	4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>			
26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	78.66	24.49
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	88.30	26.94
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	98.06	29.39
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	114.48	34.28
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	124.80	36.73
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	135.90	39.18
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	135.50	39.18
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	146.89	41.63
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	158.87	44.08
26 27 16 00-0013	EA	16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	205.75	58.77
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	249.63	71.01
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	236.95	68.57
26 27 16 00-0016	6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>			
26 27 16 00-0017	EA	6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	98.84	29.39
26 27 16 00-0018	EA	8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	120.24	34.28
26 27 16 00-0019	EA	10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	143.42	41.63
26 27 16 00-0020	EA	10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	155.10	44.08
26 27 16 00-0021	EA	12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	167.03	46.53
26 27 16 00-0022	EA	12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	179.52	48.98
26 27 16 00-0023	EA	16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	227.71	63.67
26 27 16 00-0024	EA	16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	275.87	78.37
26 27 16 00-0025	EA	18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	265.97	75.92
26 27 16 00-0026	EA	18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	346.54	97.95
26 27 16 00-0027	EA	24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	447.09	112.65
26 27 16 00-0028	EA	24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	512.00	122.44
26 27 16 00-0029	EA	30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	571.13	129.80
26 27 16 00-0030	EA	36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	624.16	134.69
26 27 16 00-0031	EA	24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	419.61	97.95
26 27 16 00-0032	Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>			
26 27 16 00-0033	3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>			
26 27 16 00-0034	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	53.87	17.15
26 27 16 00-0035	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	76.98	24.49
26 27 16 00-0036	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	85.89	26.94
26 27 16 00-0037	4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>			
26 27 16 00-0038	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	60.18	19.59
26 27 16 00-0039	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	74.59	24.49
26 27 16 00-0040	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	83.35	26.94
26 27 16 00-0041	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	92.28	29.39
26 27 16 00-0042	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	107.67	34.28
26 27 16 00-0043	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	117.01	36.73
26 27 16 00-0044	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	126.85	39.18
26 27 16 00-0045	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	126.47	39.18
26 27 16 00-0046	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	136.75	41.63
26 27 16 00-0047	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	147.33	44.08
26 27 16 00-0048	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	192.62	58.77
26 27 16 00-0049	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	238.63	73.47
26 27 16 00-0050	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	221.39	68.57
26 27 16 00-0051	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	286.83	88.16
26 27 16 00-0052	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	415.56	110.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	92.81	29.39
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	102.43	31.83
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	118.05	36.73
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	134.03	41.63
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	144.45	44.08
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	154.99	46.53
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	165.96	48.98
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	212.42	63.67
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	260.98	78.37
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	247.92	75.92
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	322.41	97.95
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	403.48	112.65
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	462.99	122.44
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	500.08	129.80
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	547.63	134.69
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	134.03	41.63
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	183.10	53.88
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	232.75	68.57
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	288.84	85.71
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	275.93	83.26
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	341.86	102.86
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	381.00	117.55
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	442.89	124.89
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	510.58	134.69
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	543.37	142.04
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	571.06	146.93
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	586.51	146.93
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	313.29	93.06
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	412.53	119.99
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	417.06	127.34
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	543.44	137.14
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	625.92	151.83
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	695.63	156.72
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	742.32	164.08
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	455.46	132.24
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	452.96	139.59
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	597.42	151.83
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	683.17	166.53
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	767.69	173.87
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	809.89	181.21
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable <small>(26 27 16)</small>		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures <small>(26 27 16 00-0097)</small>		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,221.30	107.75
26 27 16 00-0100 NEMA 12 Enclosures, Lockable <small>(26 27 16)</small>		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	114.92	19.59
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	149.36	26.94
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	184.59	34.28
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	199.92	36.73
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	224.84	39.18
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	242.32	41.63
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	165.93	29.39
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	182.93	31.83
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	230.53	19.59
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	275.97	26.94
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	312.26	29.39
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	357.14	34.28
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	367.09	36.73
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	434.22	39.18
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	466.32	41.63
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	531.16	44.08
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	336.55	29.39
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	380.69	31.83
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	414.63	36.73
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	490.30	44.08
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	532.27	48.98
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	739.87	63.67
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,146.65	97.95
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,504.51	112.65
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,697.01	122.44
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,567.57	124.89
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,808.05	134.69
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,988.43	142.04
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,193.91	146.93
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,163.37	146.93
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	6,964.68	198.97
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,029.60	220.40
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,065.88	235.70
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,276.15	293.86
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,355.52	346.52
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,483.59	346.52
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,344.90	367.34
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,481.50	391.83
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,468.20	391.83
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small>		
Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	319.30	85.71
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	342.70	85.71
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	437.41	88.77
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	453.33	88.77
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	569.06	91.83
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	433.10	88.77
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	474.74	88.77
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	494.85	91.83
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	622.75	91.83
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	684.51	97.95
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	736.78	104.08
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	767.20	104.08
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	911.99	107.14
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	989.26	110.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,353.82	122.44
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	657.68	94.89
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	828.58	107.14
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	970.55	110.20
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,118.27	113.26
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,190.02	113.26
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,353.43	122.44
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,565.48	137.75
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,475.16	131.63
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,867.89	244.89
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,966.98	306.11
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,201.27	116.32
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,806.19	153.05
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,835.49	153.05
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,486.97	229.58
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,274.90	244.89
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	8,308.07	428.56
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,366.45	306.11
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,714.37	367.34
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,522.26	336.73
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	105.50	24.49
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	116.49	26.94
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	174.59	29.39
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	219.82	36.73
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	245.52	41.63
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	288.56	46.53
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	312.22	48.98
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	406.52	63.67
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	485.67	78.37
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	553.01	97.95
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	844.81	124.89
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	937.74	134.69
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,057.59	142.04
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,112.87	146.93
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,048.17	151.83
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,184.07	171.42
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,310.83	189.79
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,444.27	209.38
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,572.26	227.75
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	678.01	119.99
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,048.17	151.83
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,245.85	156.72
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,582.68	171.42
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,022.13	121.22
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,146.02	135.92
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,268.69	150.60
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,403.32	166.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,527.22	181.21
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	763.60	90.61
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,022.13	121.22
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,146.02	135.92
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,349.42	159.18
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,527.22	181.21
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,450.18	178.77
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,527.22	181.21
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,609.72	186.12
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,795.45	195.91
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,948.72	205.71
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	75.66	19.59
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	91.25	24.49
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	100.78	26.94
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	111.88	29.39
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	129.87	34.28
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	141.71	36.73
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	154.64	39.18
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	153.91	39.18
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	168.54	41.63
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	181.47	44.08
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	273.65	68.57
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	365.88	88.16
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	104.59	29.39
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	143.68	36.73
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	162.76	41.63
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	176.70	44.08
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	175.62	44.08
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	190.44	46.53
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	205.38	48.98
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	268.12	63.67
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	307.94	75.92
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	411.83	97.95
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	429.06	105.31
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	492.59	112.65
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	556.12	122.44
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	230.17	53.88
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	331.84	83.26
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	455.83	107.75
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	544.99	124.89
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	618.52	134.69
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	689.30	142.04
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	502.57	119.99
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	679.07	151.83
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	747.83	156.72
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	750.53	166.53
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,059.85	181.21
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,095.69	186.12
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,287.68	195.91
26 27 16 00-0282 NEMA 4 Enclosures, Lockable <small>(26 27 16)</small>		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	111.77	17.15
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	130.58	20.82
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	163.35	26.94
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	155.52	26.94
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	207.91	36.73
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	258.90	44.08
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	239.24	41.63
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	278.93	48.98
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	328.12	56.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	397.94	71.01
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure.....	102.68	17.15
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure.....	146.44	26.94
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	129.06	23.51
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	137.15	25.46
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	168.50	33.31
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure.....	196.90	36.73
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	254.51	46.53
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure.....	297.55	55.10
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure.....	419.76	88.16
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure.....	221.53	19.59
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	261.41	26.94
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure.....	331.51	36.73
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure.....	402.43	44.08
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	496.27	56.32
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure.....	586.33	71.01
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	330.57	17.15
For 316 Stainless Steel, Add		
EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	46.03	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	429.37	24.49
For 316 Stainless Steel, Add		
EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	58.90	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	486.75	26.94
For 316 Stainless Steel, Add		
EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	67.11	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	557.48	29.39
For 316 Stainless Steel, Add		
EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	77.44	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	684.50	36.73
For 316 Stainless Steel, Add		
EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	94.83	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	964.13	46.53
For 316 Stainless Steel, Add		
EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	135.65	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,202.39	56.32
For 316 Stainless Steel, Add		
EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	169.85	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,448.71	71.01
For 316 Stainless Steel, Add		
	203.39	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	150.00	26.94
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	169.19	29.39
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	193.40	34.28
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	210.40	36.73
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	243.30	41.63
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	228.08	41.63
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	266.36	46.53
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	334.42	56.32
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	425.62	77.14
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	544.45	111.05
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	161.98	26.94
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	183.34	29.39
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	208.63	34.28
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	228.88	36.73
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	262.88	41.63
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	246.58	41.63
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	291.45	46.53
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	347.47	56.32
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	452.82	77.14
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	573.80	111.05
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	183.73	26.94
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	196.39	29.39
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	222.76	34.28
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	240.85	36.73
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	285.74	41.63
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	261.81	41.63

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0350	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	322.98	46.53
26 27 16 00-0351	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	383.38	56.32
26 27 16 00-0352	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	468.05	77.14
26 27 16 00-0353	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	599.91	111.05
26 27 16 00-0354	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	192.44	26.94
26 27 16 00-0355	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	212.69	29.39
26 27 16 00-0356	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	237.99	34.28
26 27 16 00-0357	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	257.16	36.73
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	307.49	41.63
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	280.29	41.63
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	345.83	46.53
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	394.25	56.32
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	503.93	77.14
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	637.99	111.05
26 27 16 00-0364			NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small>		
			Note: Nominal inside dimensions.		
26 27 16 00-0365			4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366	EA		6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,416.28	137.75
			<i>For Mounting Pan, Add</i>	60.39	
26 27 16 00-0367	EA		6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,128.46	146.93
			<i>For Mounting Pan, Add</i>	112.52	
26 27 16 00-0368	EA		8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,208.64	165.30
			<i>For Mounting Pan, Add</i>	155.16	
26 27 16 00-0369			6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370	EA		8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,963.58	165.30
			<i>For Mounting Pan, Add</i>	78.90	
26 27 16 00-0371	EA		8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,559.51	169.89
			<i>For Mounting Pan, Add</i>	155.16	
26 27 16 00-0372	EA		8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,618.81	183.66
			<i>For Mounting Pan, Add</i>	118.69	
26 27 16 00-0373	EA		10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,687.70	183.66
			<i>For Mounting Pan, Add</i>	138.87	
26 27 16 00-0374	EA		10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,800.71	229.58
			<i>For Mounting Pan, Add</i>	182.18	
26 27 16 00-0375	EA		12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,583.11	206.63
			<i>For Mounting Pan, Add</i>	113.75	
26 27 16 00-0376	EA		12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,706.41	229.58
			<i>For Mounting Pan, Add</i>	170.21	
26 27 16 00-0377	EA		12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,724.00	413.25
			<i>For Mounting Pan, Add</i>	228.99	
26 27 16 00-0378	EA		14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,546.02	275.50
			<i>For Mounting Pan, Add</i>	222.96	
26 27 16 00-0379	EA		16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,963.87	459.17
			<i>For Mounting Pan, Add</i>	204.69	
26 27 16 00-0380	EA		18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,149.88	459.17
			<i>For Mounting Pan, Add</i>	332.76	
26 27 16 00-0381			8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382	EA		8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,056.63	206.63
			<i>For Mounting Pan, Add</i>	118.69	
26 27 16 00-0383	EA		10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,078.04	206.63
			<i>For Mounting Pan, Add</i>	138.87	
26 27 16 00-0384	EA		10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,485.74	206.63
			<i>For Mounting Pan, Add</i>	182.18	
26 27 16 00-0385	EA		12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,862.63	229.58
			<i>For Mounting Pan, Add</i>	113.75	
26 27 16 00-0386	EA		12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,613.57	413.25
			<i>For Mounting Pan, Add</i>	170.21	
26 27 16 00-0387	EA		12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,830.94	505.09
			<i>For Mounting Pan, Add</i>	228.99	
26 27 16 00-0388	EA		12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,731.99	596.92
			<i>For Mounting Pan, Add</i>	344.38	
26 27 16 00-0389	EA		14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,150.03	505.09
			<i>For Mounting Pan, Add</i>	222.96	
26 27 16 00-0390	EA		16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,317.81	505.09
			<i>For Mounting Pan, Add</i>	204.69	
26 27 16 00-0391	EA		16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,416.70	551.00
			<i>For Mounting Pan, Add</i>	306.82	
26 27 16 00-0392	EA		18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,776.79	505.09
			<i>For Mounting Pan, Add</i>	332.76	
26 27 16 00-0393	EA		18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,390.47	551.00
			<i>For Mounting Pan, Add</i>	486.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,319.24 648.70	551.00
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	16,023.39 810.75	734.67
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	12,194.44 753.86	596.92
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	22,096.67 1,032.02	918.33
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,163.59 344.38	596.92
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,276.35 306.82	551.00
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,195.70 486.60	596.92
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	14,144.71 810.75	642.84
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	12,514.57 753.86	642.84
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	24,073.88 1,032.02	918.33
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,984.87 228.99	505.09
26 27 16 00-0407 Breaker Enclosures <small>(26 27 16)</small>		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	398.94	97.95
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	733.03	97.95
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,806.62	134.69
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,448.80	146.93
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,785.98	146.93
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	629.26	134.69
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	636.76	134.69
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,171.76	134.69
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	4,000.65	171.42
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	968.04	171.42
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	997.44	269.37
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,316.72	269.37
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	6,779.95	342.85
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,655.63	342.85
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	1,953.54	514.27
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,347.92	514.27
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	12,199.08	661.20
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	6,605.46	661.20
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,382.17	514.27
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	4,025.77	514.27
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	8,302.78	661.20
26 27 16 00-0434 Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	22.70	6.12
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	29.66	6.12
26 27 23 Indoor Service Poles <small>(26 27)</small>		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 23 00-0001		Communication And Power Poles <small>(26 27 23)</small>		
		Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002		Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005	EA	2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	319.83	54.26
26 27 23 00-0006	EA	2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	347.28	54.26
26 27 23 00-0007	EA	2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	379.02	54.26
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
		Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	65.47	11.19
26 27 23 00-0010	EA	Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	56.81	11.19
26 27 23 00-0011	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	64.27	11.19
26 27 23 00-0012	EA	Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	47.72	11.19
26 27 23 00-0013	EA	Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	39.37	11.19
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0015		2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016	EA	2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	413.96	54.26
26 27 23 00-0017	EA	2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	472.95	54.26
26 27 23 00-0018	EA	2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	504.79	54.26
26 27 23 00-0019		Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
		Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA	Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	44.03	11.19
26 27 23 00-0021	EA	Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	39.63	11.19
26 27 23 00-0022	EA	Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	42.78	11.19
26 27 23 00-0023		3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024		3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025	EA	3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	538.97	54.26
26 27 23 00-0026	EA	3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	609.99	54.26
26 27 23 00-0027	EA	3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	656.80	54.26
26 27 23 00-0028		Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
		Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA	Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	44.03	11.19
26 27 23 00-0030	EA	Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	39.63	11.19
26 27 23 00-0031	EA	Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	42.78	11.19
26 27 23 00-0032		Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033		2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034		2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035	EA	2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	432.43	54.26
26 27 23 00-0036	EA	2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	482.08	54.26
26 27 23 00-0037	EA	2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	537.74	54.26
26 27 23 00-0038		Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	67.17	11.19
26 27 23 00-0040	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	68.57	11.19
26 27 23 00-0041	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	73.23	11.19
26 27 23 00-0042	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	50.34	11.19
26 27 23 00-0043	EA	Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	39.37	11.19
26 27 23 00-0044		2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045	EA	2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	416.93	54.26
26 27 23 00-0046	EA	2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	467.85	54.26
26 27 23 00-0047	EA	2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	527.84	54.26



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>				
	EA	26 27 23 00-0049 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	870.49	54.26
	EA	26 27 23 00-0050 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	995.38	54.26
	EA	26 27 23 00-0051 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,135.25	54.26
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>				
	EA	26 27 23 00-0053 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	473.84	54.26
	EA	26 27 23 00-0054 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	448.67	54.26
	EA	26 27 23 00-0055 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	574.28	54.26
26 27 26 Wiring Devices <small>(26 27)</small>				
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.				
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>				
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>				
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>				
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.				
	EA	26 27 26 00-0004 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	99.05	43.47
	EA	26 27 26 00-0005 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	106.22	46.53
	EA	26 27 26 00-0006 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	127.79	55.71
	EA	26 27 26 00-0007 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	142.12	61.83
	EA	26 27 26 00-0008 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	113.19	43.47
	EA	26 27 26 00-0009 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	121.10	46.53
26 27 26 00-0010 Receptacle Components <small>(26 27 26 00-0002)</small>				
	EA	26 27 26 00-0011 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	28.35	12.24
	EA	26 27 26 00-0012 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	27.52	12.24
	EA	26 27 26 00-0013 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	32.38	12.24
	EA	26 27 26 00-0014 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	35.20	12.24
	EA	26 27 26 00-0015 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	44.90	15.31
	EA	26 27 26 00-0016 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	54.13	15.31
	EA	26 27 26 00-0017 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	29.43	12.24
	EA	26 27 26 00-0018 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	28.57	12.24
	EA	26 27 26 00-0019 20 Amperes, 120/277 Volt, Single Receptacle.....	41.24	12.24
	EA	26 27 26 00-0020 20 Amperes, 120/277 Volt, Duplex Receptacle.....	34.31	12.24
	EA	26 27 26 00-0021 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	44.90	15.31
	EA	26 27 26 00-0022 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	54.13	15.31
	EA	26 27 26 00-0023 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	83.76	15.31
	EA	26 27 26 00-0024 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	83.76	15.31
	EA	26 27 26 00-0025 25 Amperes, 120/277 Volt, Duplex Receptacle.....	70.87	18.37
26 27 26 00-0026 Specialty Receptacles <small>(26 27 26 00-0001)</small>				
26 27 26 00-0027 Specialty Receptacles <small>(26 27 26 00-0026)</small>				
	EA	26 27 26 00-0028 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	63.81	21.43
	EA	26 27 26 00-0029 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	63.81	21.43
	EA	26 27 26 00-0030 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	84.68	21.43
	EA	26 27 26 00-0031 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	96.00	21.43
	EA	26 27 26 00-0032 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	102.13	24.49
	EA	26 27 26 00-0033 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	94.45	24.49
	EA	26 27 26 00-0034 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	92.29	24.49
	EA	26 27 26 00-0035 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	81.13	24.49
	EA	26 27 26 00-0036 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	102.55	24.49
	EA	26 27 26 00-0037 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	113.94	24.49
	EA	26 27 26 00-0038 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	120.06	27.55
	EA	26 27 26 00-0039 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	132.09	30.61
	EA	26 27 26 00-0040 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	144.34	36.73
	EA	26 27 26 00-0041 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,364.17	287.74
	EA	26 27 26 00-0042 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,316.57	352.03
	EA	26 27 26 00-0043 30 Amperes, 230 Volt, Dryer Receptacle.....	76.09	24.49
	EA	26 27 26 00-0044 60 Amperes, 230 Volt, Range Receptacle.....	111.44	36.73
	EA	26 27 26 00-0045 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	70.97	15.31
	EA	26 27 26 00-0046 Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,436.09	372.92
26 27 26 00-0047 Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>				
	EA	26 27 26 00-0048 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	94.46	12.24
Note: 2 Pole, 3 wire.				
	EA	26 27 26 00-0049 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	60.45	15.31
	EA	26 27 26 00-0050 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex.....	60.24	15.31
	EA	26 27 26 00-0051 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	83.94	24.49
	EA	26 27 26 00-0052 Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	67.56	15.31
	EA	26 27 26 00-0053 Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	62.03	15.31

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0054	EA		Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	85.45	18.37
26 27 26 00-0055	EA		Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	68.23	18.37
26 27 26 00-0056	EA		Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	87.50	18.37
26 27 26 00-0057	EA		Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	106.28	18.37
26 27 26 00-0058	EA		Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	105.28	24.49
26 27 26 00-0059			Explosion Proof Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060	EA		1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	957.36	30.61
26 27 26 00-0061	EA		3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	881.50	33.67
26 27 26 00-0062	EA		3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,465.01	61.22
26 27 26 00-0063	EA		3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,847.12	61.22
26 27 26 00-0064	EA		1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,335.76	91.83
26 27 26 00-0065	EA		1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,225.14	91.83
26 27 26 00-0066			Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067	EA		15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	38.60	15.31
26 27 26 00-0068	EA		20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	55.69	18.37
26 27 26 00-0069	EA		15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	41.07	20.87
26 27 26 00-0070	EA		20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	70.20	24.49
26 27 26 00-0071			Arc Fault Circuit Interrupter (AFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0072	EA		15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	69.44	15.31
26 27 26 00-0073	EA		20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	76.29	15.31
26 27 26 00-0074			Locking Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0075	EA		NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	56.88	15.31
26 27 26 00-0076	EA		NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	70.52	15.31
26 27 26 00-0077	EA		NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	62.85	18.37
26 27 26 00-0078	EA		NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	62.24	18.37
26 27 26 00-0079	EA		NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	74.24	18.37
26 27 26 00-0080	EA		NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	89.74	18.37
26 27 26 00-0081	EA		NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	88.03	18.37
26 27 26 00-0082	EA		NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	76.69	18.37
26 27 26 00-0083	EA		NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	86.90	24.49
26 27 26 00-0084	EA		NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle	88.34	24.49
26 27 26 00-0085	EA		NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	112.89	24.49
26 27 26 00-0086			Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0087	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	276.26	61.22
26 27 26 00-0088	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	275.63	61.22
26 27 26 00-0089	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	287.62	61.22
26 27 26 00-0090	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	350.75	67.34
26 27 26 00-0091	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	351.75	67.34
26 27 26 00-0092	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	349.44	67.34
26 27 26 00-0093	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	418.71	75.31
26 27 26 00-0094	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	399.19	75.31
26 27 26 00-0095	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	429.74	75.31
26 27 26 00-0096	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	434.23	82.65
26 27 26 00-0097	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	433.85	82.65
26 27 26 00-0098	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	436.61	82.65
26 27 26 00-0099	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	610.47	97.95
26 27 26 00-0100	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	586.84	97.95
26 27 26 00-0101	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	602.22	97.95
26 27 26 00-0102	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	670.66	108.98
26 27 26 00-0103	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	671.11	108.98
26 27 26 00-0104	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	671.57	108.98
26 27 26 00-0105	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	746.48	122.44
26 27 26 00-0106	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	776.77	122.44
26 27 26 00-0107	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	835.75	134.69
26 27 26 00-0108	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	833.48	134.69
26 27 26 00-0109	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	837.75	134.69
26 27 26 00-0110			Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0111	EA		15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	73.78	12.24
26 27 26 00-0112	EA		15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	147.09	15.31
26 27 26 00-0113			Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0114	EA		15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	30.34	12.24
			Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115	EA		20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	33.36	12.24
			Note: Pass & Seymour TR20.		
26 27 26 00-0116	EA		15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	42.00	12.24
			Note: Pass & Seymour TR5251.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0117 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5351.	46.06	12.24
26 27 26 00-0118 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	70.42	12.24
26 27 26 00-0119 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	76.22	12.24
26 27 26 00-0120 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	81.76	12.24
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	72.54	12.24
26 27 26 00-0123 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	78.54	12.24
26 27 26 00-0124 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete.....	77.55	28.40
26 27 26 00-0126 Switches (26 27 26)		
26 27 26 00-0127 Switches (26 27 26 00-0126)		
26 27 26 00-0128 Switch Assemblies (26 27 26 00-0127)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	102.37	42.86
26 27 26 00-0130 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	110.23	46.53
26 27 26 00-0131 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	137.49	56.01
26 27 26 00-0132 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	150.75	62.14
26 27 26 00-0133 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	235.08	96.12
26 27 26 00-0134 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	254.97	105.31
26 27 26 00-0135 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	270.35	108.67
26 27 26 00-0136 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	296.87	120.92
26 27 26 00-0137 Switch Components (26 27 26 00-0127)		
26 27 26 00-0138 EA 15 Amperes, 120/277 Volt, SPST Switch	32.07	12.24
26 27 26 00-0139 EA 15 Amperes, 120/277 Volt, 3-Way Switch	40.57	15.31
26 27 26 00-0140 EA 15 Amperes, 120/277 Volt, 4-Way Switch	77.88	24.49
26 27 26 00-0141 EA 15 Amperes, 120/277 Volt, DPST Switch	36.48	12.24
26 27 26 00-0142 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	68.29	15.31
26 27 26 00-0143 EA 20 Amperes, 120/277 Volt, SPST Switch	38.70	15.31
26 27 26 00-0144 EA 20 Amperes, 120/277 Volt, 3-Way Switch	47.79	18.37
26 27 26 00-0145 EA 20 Amperes, 120/277 Volt, 4-Way Switch	104.10	24.49
26 27 26 00-0146 EA 20 Amperes, 120/277 Volt, DPST Switch	45.77	15.31
26 27 26 00-0147 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	48.90	15.31
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	87.21	15.35
26 27 26 00-0149 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	110.15	15.35
26 27 26 00-0150 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	83.71	18.41
26 27 26 00-0151 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	58.55	21.43
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0152 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	71.85	24.49
26 27 26 00-0153 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	104.17	24.49
26 27 26 00-0154 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	87.15	24.55
26 27 26 00-0155 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	107.76	24.55
26 27 26 00-0156 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	112.39	30.68
26 27 26 00-0157 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	157.44	33.75
26 27 26 00-0158 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	74.03	20.06
26 27 26 00-0159 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	105.44	20.06
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0160 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	91.90	20.06
26 27 26 00-0161 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	87.24	20.06
26 27 26 00-0162 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	97.94	9.95
26 27 26 00-0163 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	104.26	9.95
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	110.16	38.30
26 27 26 00-0165 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	133.10	38.30
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0166 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	159.83	12.27
26 27 26 00-0167 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH)	75.81	12.27
26 27 26 00-0168 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	271.07	12.24
26 27 26 00-0169 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	48.69	12.24
26 27 26 00-0170 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	80.56	12.27
26 27 26 00-0171 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000)	91.90	12.27
26 27 26 00-0172 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000)	116.65	12.27
26 27 26 00-0173 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	164.62	12.27

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0174 Specialty Switches (26 27 26 00-0126)		
26 27 26 00-0175 Dimmers With SPST Switch (26 27 26 00-0174)		
26 27 26 00-0176 EA 600 Watt Dimmers With SPST Switch	71.47	27.55
26 27 26 00-0177 EA 1,000 Watt Dimmers With SPST Switch	122.60	27.55
26 27 26 00-0178 EA 1,500 Watt Dimmers With SPST Switch	220.72	44.33
26 27 26 00-0179 EA 2,000 Watt Dimmers With SPST Switch	285.96	44.33
26 27 26 00-0180 EA 600 Watt Fluorescent Dimmer Switch	159.37	32.70
26 27 26 00-0181 EA 1,000 Watt Fluorescent Dimmer Switch	215.50	32.70
26 27 26 00-0182 EA 1,500 Watt Fluorescent Dimmer Switch	389.87	49.34
26 27 26 00-0183 EA Remote Speed Switch For Paddle Fan	117.68	40.77
26 27 26 00-0184 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	193.96	60.86
26 27 26 00-0185 Time Switches (26 27 26 00-0174)		
26 27 26 00-0186 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	132.53	36.73
26 27 26 00-0187 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	135.48	36.73
26 27 26 00-0188 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	132.53	36.73
26 27 26 00-0189 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	135.48	36.73
26 27 26 00-0190 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	152.21	36.73
26 27 26 00-0191 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	152.21	36.73
26 27 26 00-0192 EA 40 Amperes, 125 Volt, DPST, 7-Day Time Switch	268.36	36.73
26 27 26 00-0193 EA 40 Amperes, 277 Volt, DPST, 7-Day Time Switch	268.36	36.73
26 27 26 00-0194 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	231.09	36.73
26 27 26 00-0195 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	253.85	36.73
26 27 26 00-0196 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	253.85	36.73
26 27 26 00-0197 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	307.63	36.73
26 27 26 00-0198 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	316.68	36.73
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	132.53	36.73
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	135.48	36.73
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	132.53	36.73
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	135.48	36.73
26 27 26 00-0203 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	152.21	36.73
26 27 26 00-0204 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	152.21	36.73
26 27 26 00-0205 EA 40 Amperes, 125 Volt, DPST, Weatherproof 7-Day Time Switch	268.36	36.73
26 27 26 00-0206 EA 40 Amperes, 277 Volt, DPST, Weatherproof 7-Day Time Switch	268.36	36.73
26 27 26 00-0207 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	307.63	36.73
26 27 26 00-0208 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	316.68	36.73
26 27 26 00-0209 Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector	215.42	12.24
26 27 26 00-0211 Other Switches (26 27 26 00-0174)		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	40.39	18.37
26 27 26 00-0213 EA SPST Locking Switch For Concealed Devices	123.32	48.98
26 27 26 00-0214 EA 3-Way Locking Switch For Concealed Devices	124.92	48.98
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	136.58	45.79
26 27 26 00-0216 EA 15 Amperes Momentary Contact Switch	130.13	45.79
26 27 26 00-0217 EA 20 Amperes Momentary Contact Switch	136.92	45.79
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	129.40	55.23
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	131.30	55.23
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	161.53	67.50
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	146.88	61.37
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	147.35	61.37
26 27 26 00-0223 Plates And Covers (26 27 26)		
26 27 26 00-0224 Wall Plates (26 27 26 00-0223)		
26 27 26 00-0225 Nylon Wall Plates (26 27 26 00-0224)		
26 27 26 00-0226 EA 1 Gang Nylon Switch Wall Plates	1.98	0.61
26 27 26 00-0227 EA 2 Gang Nylon Switch Wall Plates	3.34	0.93
26 27 26 00-0228 EA 3 Gang Nylon Switch Wall Plates	4.76	1.23
26 27 26 00-0229 EA 4 Gang Nylon Switch Wall Plate	6.89	1.54
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate	2.00	0.61
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate	3.43	0.93
26 27 26 00-0232 Plastic Wall Plates (26 27 26 00-0224)		
26 27 26 00-0233 EA 1 Gang Plastic Switch Wall Plates	1.83	0.61
26 27 26 00-0234 EA 2 Gang Plastic Switch Wall Plates	3.05	0.93
26 27 26 00-0235 EA 3 Gang Plastic Switch Wall Plates	4.28	1.23
26 27 26 00-0236 EA 4 Gang Plastic Switch Wall Plates	6.89	1.54
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate	1.83	0.61
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate	3.06	0.93



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0239				Brass Wall Plates (26 27 26 00-0224)		
			EA	1 Gang, 0.04" Brass Switch Wall Plates	19.66	2.77
			EA	2 Gang, 0.04" Brass Switch Wall Plates	37.09	3.19
			EA	3 Gang, 0.04" Brass Switch Wall Plates	54.37	3.56
			EA	4 Gang, 0.04" Brass Switch Wall Plates	84.77	3.86
			EA	5 Gang, 0.04" Brass Switch Wall Plates	103.33	4.11
			EA	6 Gang, 0.04" Brass Switch Wall Plates	119.64	4.29
			EA	1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	19.66	2.77
			EA	2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	43.53	3.19
			EA	3 Gang 0.04" Brass Duplex Receptacle Wall Plate	62.85	3.56
26 27 26 00-0249				Stainless Steel Wall Plates (26 27 26 00-0224)		
			EA	1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	10.37	2.77
			EA	2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	16.77	3.19
			EA	3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	23.52	3.56
			EA	4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	34.66	3.86
			EA	5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	40.88	4.11
			EA	6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	49.52	4.29
			EA	1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	11.39	2.77
			EA	2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	19.18	3.19
			EA	3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	31.50	3.56
			EA	4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	38.12	3.86
26 27 26 00-0260				Chrome Wall Plates (26 27 26 00-0224)		
			EA	1 Gang, 0.040" Chrome Switch Wall Plate	39.68	2.77
			EA	2 Gang 0.040" Chrome Switch Wall Plate	74.58	3.19
			EA	3 Gang 0.040" Chrome Switch Wall Plate	109.44	3.56
			EA	1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	39.65	2.77
26 27 26 00-0265				Weatherproof Covers (26 27 26 00-0223)		
26 27 26 00-0266				Stamped Metallic Weatherproof Covers (26 27 26 00-0265)		
				Note: Includes electrostatically applied powder coating and neoprene gasket.		
			EA	Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	12.41	0.61
			EA	Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	13.45	0.61
			EA	Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	13.45	0.61
			EA	Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	13.45	0.61
			EA	Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	16.48	0.93
			EA	Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	18.72	0.93
			EA	Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	18.94	0.93
			EA	Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	18.94	0.93
			EA	Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	25.76	0.93
			EA	Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	24.39	1.23
			EA	Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	26.67	1.23
26 27 26 00-0278				Cast Metallic Weatherproof Covers (26 27 26 00-0265)		
				Note: Includes electrostatically applied powder coating and neoprene gasket.		
			EA	Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	15.19	0.61
			EA	Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	48.53	0.61
			EA	Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	54.42	0.61
			EA	Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	15.08	0.61
			EA	Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	41.13	0.61
			EA	Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	68.43	0.61
			EA	Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	87.12	0.61
			EA	Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	18.94	0.93
			EA	Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	137.61	0.93
			EA	Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	31.71	1.23
			EA	Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	131.46	1.23
26 27 26 00-0290				Die Cast Aluminum Weatherproof Covers (26 27 26 00-0265)		
				Note: Includes electrostatically applied powder coating and neoprene gasket.		
			EA	Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.39	0.61
			EA	Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026)	6.91	0.61
			EA	Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032)	9.26	0.93
			EA	Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	10.05	0.93
			EA	Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	10.05	0.93
			EA	Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	11.19	0.93
26 27 26 00-0297				Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0265)		
				Note: Includes baked on lacquer finish and neoprene gasket.		
			EA	Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510)	54.88	0.61

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 27 26 00-0299			Polycarbonate Weatherproof Covers (26 27 26 00-0265) Note: Includes neoprene gasket.		
26 27 26 00-0300	EA		Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.06	0.61
26 27 26 00-0301	EA		Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.06	0.61
26 27 26 00-0302	EA		Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.06	0.61
26 27 26 00-0303	EA		Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	13.68	0.93
26 27 26 00-0304	EA		Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	13.68	0.93

26 27 26 00-0305			High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0265) Note: Includes neoprene gasket.		
26 27 26 00-0306	EA		Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	92.11	0.61

26 27 26 00-0307			Non-Metallic (PVC) Weatherproof Covers (26 27 26 00-0265) Note: Includes neoprene gasket.		
26 27 26 00-0308	EA		Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover	12.58	0.61
26 27 26 00-0309	EA		Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover	13.54	0.92
26 27 26 00-0310	EA		Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	12.62	0.61
26 27 26 00-0311	EA		Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	27.77	0.61
26 27 26 00-0312	EA		Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	32.18	0.61
26 27 26 00-0313	EA		20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	26.09	0.61
26 27 26 00-0314	EA		30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	19.45	0.61
26 27 26 00-0315	EA		50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	22.76	0.61
26 27 26 00-0316	EA		Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	20.36	0.61
26 27 26 00-0317	EA		Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover	29.32	0.92

26 27 26 00-0318			Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0319	EA		Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	80.55	
26 27 26 00-0320	EA		Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	10.20	

26 27 26 00-0321			In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0322	EA		Single Pole Water Resistant In Line Midget Fuseholder	90.38	
26 27 26 00-0323	EA		Double Pole Water Resistant In Line Midget Fuseholder	211.43	

26 27 26 00-0324			Relay Systems (26 27 26)		
26 27 26 00-0325	EA		10 Amperes, 24 Volt Coil, 2 Position Relay	93.91	27.55
26 27 26 00-0326	EA		20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	404.61	91.83
26 27 26 00-0327	EA		20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	687.12	122.44

26 27 26 00-0328			Limit Switches (26 27 26)		
26 27 26 00-0329			Heavy Duty Precision Oiltight (26 27 26 00-0328)		
26 27 26 00-0330			Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0329)		
26 27 26 00-0331	EA		Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	367.07	77.14

26 27 33 Power Distribution Units (26 27)
Note: Includes wiring connections and testing.

26 27 33 00-0001			Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002	EA		PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	21,309.90	376.52
26 27 33 00-0003	EA		PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	25,735.52	408.11
26 27 33 00-0004	EA		PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	29,330.91	453.05
26 27 33 00-0005	EA		PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	33,750.90	489.78
26 27 33 00-0006	EA		PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	36,820.91	612.22
26 27 33 00-0007	EA		PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	41,303.47	734.67
26 27 33 00-0008	EA		PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	47,655.60	857.11
26 27 33 00-0009	EA		PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	50,102.42	979.56
26 27 33 00-0010	EA		PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	52,923.14	1,102.01
26 27 33 00-0011	EA		Ex Panelboard 10-30 KVA	1,881.80	122.44
26 27 33 00-0012	EA		Ex Panelboard 50-125 KVA	2,815.48	153.05
26 27 33 00-0013	EA		Ex Panelboard 150-220 KVA	6,366.56	183.66
26 27 33 00-0014	EA		Removal And Reinstallation Of Power Distribution Unit	1,959.12	
26 27 33 00-0015	EA		Note: Includes disconnection / reconnection of branch circuits, storage and cleaning. Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,469.34	

26 27 73 Door Chimes (26 27)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 27 73 00-0001	Door Bell Chime And Door Button With Built-In Viewer <small>(26 27 73)</small>		
	Note: Non-electric chime, mounted on door		
26 27 73 00-0002	EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	87.96	19.14
26 27 73 00-0003	Wireless Door Bell System <small>(26 27 73)</small>		
26 27 73 00-0004	EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	141.62	
	Note: Includes 2 push buttons		
26 27 73 00-0005	EA Wireless Doorbell Chime And Push Button (STI-3350G).....	133.32	
	Note: Includes 2 push buttons		
26 27 73 00-0006	EA Wireless Doorbell Chime And Push Button (GE 19300).....	99.39	
	Note: Includes 2 push buttons		
26 27 73 00-0007	Door Bell Buzzer System, Wired <small>(26 27 73)</small>		
26 27 73 00-0008	EA Door Bell, Push-Button And Transformer, Complete	669.72	255.06
26 27 73 00-0009	EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	272.24	61.22
26 27 73 00-0010	EA Removal And Replacement Of Bell/Buzzer, Complete	110.43	30.61
	Note: Includes removal of existing.		

26 28 Low-Voltage Circuit Protective Devices (26 20)

26 28 13 Fuses (26 28)

26 28 13 00-0001	125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses <small>(26 28 13)</small>		
26 28 13 00-0002	EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.86	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0003	EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.05	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0004	EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.93	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0005	EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.78	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0006	EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	28.82	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0007	EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.78	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0008	EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.30	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0009	EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	22.34	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0010	EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	21.74	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0011	EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	22.89	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0012	EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	22.09	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0013	Class RK1, Time Delay Fuses <small>(26 28 13)</small>		
26 28 13 00-0014	250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses <small>(26 28 13 00-0013)</small>		
26 28 13 00-0015	EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	49.35	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0016	EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.76	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0017	EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.26	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0018	EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	47.93	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0019	EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.43	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0020	EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.94	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0021	EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	39.97	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0022	EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	39.67	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0023	EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.00	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0024	EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	39.59	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0025	EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	56.47	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0026	EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	55.27	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0027	EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	56.17	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 28 13 00-0028	EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	55.43	8.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	348.07	12.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	342.15	14.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	341.28	14.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	657.30	14.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	659.75	18.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	745.10	18.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	674.26	18.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	1,218.14	18.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	1,082.34	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	942.63	22.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	57.50	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	58.45	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	58.18	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	57.88	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	62.36	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	55.19	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	63.61	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	57.91	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	56.74	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.05	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	56.33	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	77.28	6.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.68	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	77.90	6.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.68	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	66.20	7.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.41	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	64.87	9.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.51	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	66.36	9.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.51	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	65.03	9.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.51	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	82.56	12.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	67.64	12.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	123.33	12.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	104.14	12.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	120.39	12.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	104.44	15.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.18	
26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	102.38	15.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.18	
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	161.94	18.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.02	
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	173.32	18.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.02	
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	170.41	18.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.02	
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	146.34	21.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.86	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0108	EA		110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	358.72 12.86	21.43
26 28 13 00-0109	EA		125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	303.06 12.86	21.43
26 28 13 00-0110	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	286.71 14.69	24.49
26 28 13 00-0111	EA		175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	291.14 14.69	24.49
26 28 13 00-0112	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	239.37 14.69	24.49
26 28 13 00-0113	EA		225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	626.53 14.69	24.49
26 28 13 00-0114	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	578.21 14.69	24.49
26 28 13 00-0115	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	531.72 14.69	24.49
26 28 13 00-0116	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	581.20 14.69	24.49
26 28 13 00-0117	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	475.71 16.53	27.55
26 28 13 00-0118	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,027.83 16.53	27.55
26 28 13 00-0119	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	868.35 18.37	30.61
26 28 13 00-0120	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	641.53 18.37	30.61
26 28 13 00-0121			600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28 13 00-0122	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,987.48 9.18	15.31
26 28 13 00-0123	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,991.42 9.18	15.31
26 28 13 00-0124	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,995.09 9.18	15.31
26 28 13 00-0125	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,987.11 11.02	18.37
26 28 13 00-0126	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,829.36 11.02	18.37
26 28 13 00-0127	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,956.55 12.86	21.43
26 28 13 00-0128	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,799.94 12.86	21.43
26 28 13 00-0129	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,014.41 12.86	21.43
26 28 13 00-0130	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,974.89 12.86	21.43
26 28 13 00-0131	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,753.86 14.69	24.49
26 28 13 00-0132	EA		601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,801.39 14.69	24.49
26 28 13 00-0133	EA		650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,398.80 14.69	24.49
26 28 13 00-0134	EA		700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,745.24 14.69	24.49
26 28 13 00-0135	EA		750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,684.72 16.53	27.55
26 28 13 00-0136	EA		800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,540.84 16.53	27.55
26 28 13 00-0137	EA		900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,256.06 16.53	27.55
26 28 13 00-0138	EA		1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,514.70 16.53	27.55
26 28 13 00-0139	EA		1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,560.16 16.53	27.55
26 28 13 00-0140	EA		1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,484.15 16.53	27.55
26 28 13 00-0141	EA		1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,435.02 16.53	27.55
26 28 13 00-0142	EA		1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,097.91 16.53	27.55
26 28 13 00-0143	EA		1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,929.23 18.37	30.61
26 28 13 00-0144	EA		1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,104.62 18.37	30.61
26 28 13 00-0145	EA		2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,622.63 18.37	30.61
26 28 13 00-0146	EA		2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,550.38 18.37	30.61
26 28 13 00-0147	EA		2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,058.17 18.37	30.61
26 28 13 00-0148	EA		3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,958.12 20.20	33.67



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0149	EA		3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,201.85 20.20	33.67
26 28 13 00-0150	EA		3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,519.46 20.20	33.67
26 28 13 00-0151	EA		4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,498.02 20.20	33.67
26 28 13 00-0152	EA		5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,685.65 20.20	33.67
26 28 13 00-0153	EA		6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,388.29 20.20	33.67
26 28 16 Enclosed Switches and Circuit Breakers (26 28)					
26 28 16 13 Enclosed Circuit Breakers (26 28 16)					
26 28 16 13-0001			Branch Circuit Breakers (26 28 16 13) Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 28 16 13-0002			Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001) Note: Includes connection of electrical wire.		
26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	58.18 15.84 -12.25	22.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	58.18 15.84 -12.25	22.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	82.44 21.02 -15.31	27.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	118.92 25.58 -15.31	27.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	160.63 30.79 -15.31	27.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	184.42 33.77 -15.31	27.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	95.94 22.71 -15.31	27.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	94.69 24.69 -18.37	33.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0011	EA		2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	94.69 24.69 -18.37	33.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0012	EA		2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	140.39 34.69 -24.49	44.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0013	EA		2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	225.02 49.55 -30.61	55.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0014	EA		2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	263.43 56.50 -33.67	61.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.41	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0015	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	218.47	39.18
			<i>For Bolt-On, Add</i>	42.74	
			<i>For Installation In New Panelboard, Deduct</i>	-22.04	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	
26 28 16 13-0016	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	286.70	39.18
			<i>For Bolt-On, Add</i>	51.27	
			<i>For Installation In New Panelboard, Deduct</i>	-22.04	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.45	
26 28 16 13-0017	EA		3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	172.22	44.08
			<i>For Bolt-On, Add</i>	38.67	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0018	EA		3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	172.22	44.08
			<i>For Bolt-On, Add</i>	38.67	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0019	EA		3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	224.61	55.10
			<i>For Bolt-On, Add</i>	49.50	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0020	EA		3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	332.55	66.12
			<i>For Bolt-On, Add</i>	67.28	
			<i>For Installation In New Panelboard, Deduct</i>	-36.73	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.08	
26 28 16 13-0021	EA		3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	421.24	77.14
			<i>For Bolt-On, Add</i>	82.65	
			<i>For Installation In New Panelboard, Deduct</i>	-42.86	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.43	
26 28 16 13-0022			Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0023	EA		1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	79.79	22.04
			<i>For Bolt-On, Add</i>	18.55	
			<i>For Installation In New Panelboard, Deduct</i>	-12.25	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0024	EA		1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	79.79	22.04
			<i>For Bolt-On, Add</i>	18.55	
			<i>For Installation In New Panelboard, Deduct</i>	-12.25	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0025	EA		1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	137.69	27.55
			<i>For Bolt-On, Add</i>	27.92	
			<i>For Installation In New Panelboard, Deduct</i>	-15.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0026	EA		1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	207.83	27.55
			<i>For Bolt-On, Add</i>	36.69	
			<i>For Installation In New Panelboard, Deduct</i>	-15.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0027	EA		2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	151.59	33.06
			<i>For Bolt-On, Add</i>	31.81	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0028	EA		2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	151.59	33.06
			<i>For Bolt-On, Add</i>	31.81	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0029	EA		2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	289.89	44.08
			<i>For Bolt-On, Add</i>	53.38	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0030	EA		2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	392.91	55.10
			<i>For Bolt-On, Add</i>	70.54	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0031	EA		2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	569.02	61.22
			<i>For Bolt-On, Add</i>	94.70	
			<i>For Installation In New Panelboard, Deduct</i>	-33.67	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0032	EA		3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	238.24	44.08
			<i>For Bolt-On, Add</i>	46.92	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0033	EA		3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	238.24	44.08
			<i>For Bolt-On, Add</i>	46.92	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0034	EA		3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	351.86	55.10
			<i>For Bolt-On, Add</i>	65.41	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0035	EA		3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	495.54	66.12
			<i>For Bolt-On, Add</i>	87.66	
			<i>For Installation In New Panelboard, Deduct</i>	-36.73	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.08	
26 28 16 13-0036	EA		3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	756.95	77.14
			<i>For Bolt-On, Add</i>	124.62	
			<i>For Installation In New Panelboard, Deduct</i>	-42.86	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.43	
26 28 16 13-0037	EA		3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	870.90	82.65
			<i>For Bolt-On, Add</i>	141.00	
			<i>For Installation In New Panelboard, Deduct</i>	-45.92	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.10	
26 28 16 13-0038	EA		3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	935.38	88.16
			<i>For Bolt-On, Add</i>	151.21	
			<i>For Installation In New Panelboard, Deduct</i>	-48.98	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.77	
26 28 16 13-0039	EA		3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,102.48	93.67
			<i>For Bolt-On, Add</i>	174.24	
			<i>For Installation In New Panelboard, Deduct</i>	-52.04	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.45	
26 28 16 13-0040			Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0041	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	93.99	22.04
			<i>For Bolt-On, Add</i>	20.32	
			<i>For Installation In New Panelboard, Deduct</i>	-12.25	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0042	EA		35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	93.99	22.04
			<i>For Bolt-On, Add</i>	20.32	
			<i>For Installation In New Panelboard, Deduct</i>	-12.25	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0043	EA		70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	151.72	27.55
			<i>For Bolt-On, Add</i>	29.68	
			<i>For Installation In New Panelboard, Deduct</i>	-15.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.37	
26 28 16 13-0044	EA		15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	188.61	33.06
			<i>For Bolt-On, Add</i>	36.43	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0045	EA		35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	188.61	33.06
			<i>For Bolt-On, Add</i>	36.43	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0046	EA		70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	325.39	44.08
			<i>For Bolt-On, Add</i>	57.82	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0047	EA		110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	811.41	55.10
			<i>For Bolt-On, Add</i>	122.85	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0048	EA		15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	299.33	44.08
			<i>For Bolt-On, Add</i>	54.56	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	299.33	44.08
For Bolt-On, Add	54.56	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	396.32	55.10
For Bolt-On, Add	70.97	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,003.63	66.12
For Bolt-On, Add	151.17	
For Installation In New Panelboard, Deduct	-36.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	106.05	22.04
For Bolt-On, Add	21.83	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	106.05	22.04
For Bolt-On, Add	21.83	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	125.62	27.55
For Bolt-On, Add	26.42	
For Installation In New Panelboard, Deduct	-15.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	206.22	27.55
For Bolt-On, Add	36.49	
For Installation In New Panelboard, Deduct	-15.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	220.08	33.06
For Bolt-On, Add	40.37	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	220.08	33.06
For Bolt-On, Add	40.37	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	268.38	44.08
For Bolt-On, Add	50.69	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	383.72	55.10
For Bolt-On, Add	69.39	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	492.31	61.22
For Bolt-On, Add	85.11	
For Installation In New Panelboard, Deduct	-33.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.41	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	613.15	71.64
For Bolt-On, Add	104.50	
For Installation In New Panelboard, Deduct	-39.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.75	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	663.55	82.65
For Bolt-On, Add	115.08	
For Installation In New Panelboard, Deduct	-45.92	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.10	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	268.91	44.08
For Bolt-On, Add	50.76	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	268.91	44.08
For Bolt-On, Add	50.76	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	316.70	55.10
<i>For Bolt-On, Add</i>	61.01	
<i>For Installation In New Panelboard, Deduct</i>	-30.61	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	474.71	66.12
<i>For Bolt-On, Add</i>	85.05	
<i>For Installation In New Panelboard, Deduct</i>	-36.73	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.08	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	622.55	85.71
<i>For Bolt-On, Add</i>	111.03	
<i>For Installation In New Panelboard, Deduct</i>	-47.45	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.94	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	766.79	99.18
<i>For Bolt-On, Add</i>	134.42	
<i>For Installation In New Panelboard, Deduct</i>	-55.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.12	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	815.16	105.31
<i>For Bolt-On, Add</i>	142.61	
<i>For Installation In New Panelboard, Deduct</i>	-58.16	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.79	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	227.94	33.06
<i>For Bolt-On, Add</i>	41.35	
<i>For Installation In New Panelboard, Deduct</i>	-18.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	227.94	33.06
<i>For Bolt-On, Add</i>	41.35	
<i>For Installation In New Panelboard, Deduct</i>	-18.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	344.38	44.08
<i>For Bolt-On, Add</i>	60.19	
<i>For Installation In New Panelboard, Deduct</i>	-24.49	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	553.55	55.10
<i>For Bolt-On, Add</i>	90.62	
<i>For Installation In New Panelboard, Deduct</i>	-30.61	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	856.28	68.57
<i>For Bolt-On, Add</i>	133.82	
<i>For Installation In New Panelboard, Deduct</i>	-38.26	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.92	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	968.34	71.64
<i>For Bolt-On, Add</i>	148.90	
<i>For Installation In New Panelboard, Deduct</i>	-39.80	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.75	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	1,059.62	82.65
<i>For Bolt-On, Add</i>	164.59	
<i>For Installation In New Panelboard, Deduct</i>	-45.92	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.10	
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	326.35	44.08
<i>For Bolt-On, Add</i>	57.94	
<i>For Installation In New Panelboard, Deduct</i>	-24.49	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	326.35	44.08
<i>For Bolt-On, Add</i>	57.94	
<i>For Installation In New Panelboard, Deduct</i>	-24.49	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	410.94	55.10
<i>For Bolt-On, Add</i>	72.79	
<i>For Installation In New Panelboard, Deduct</i>	-30.61	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	687.77	66.12
<i>For Bolt-On, Add</i>	111.68	
<i>For Installation In New Panelboard, Deduct</i>	-36.73	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.08	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,001.21	85.71
For Bolt-On, Add	158.36	
For Installation In New Panelboard, Deduct	-47.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.94	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,182.04	99.18
For Bolt-On, Add	186.33	
For Installation In New Panelboard, Deduct	-55.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,277.94	105.31
For Bolt-On, Add	200.45	
For Installation In New Panelboard, Deduct	-58.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.79	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	235.75	33.06
For Bolt-On, Add	42.33	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	235.75	33.06
For Bolt-On, Add	42.33	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	416.51	44.08
For Bolt-On, Add	69.21	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	753.54	55.10
For Bolt-On, Add	115.62	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,186.86	68.57
For Bolt-On, Add	175.14	
For Installation In New Panelboard, Deduct	-38.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.92	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,348.54	71.64
For Bolt-On, Add	196.42	
For Installation In New Panelboard, Deduct	-39.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.75	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,469.91	82.65
For Bolt-On, Add	215.88	
For Installation In New Panelboard, Deduct	-45.92	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.10	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	380.44	44.08
For Bolt-On, Add	64.70	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	380.44	44.08
For Bolt-On, Add	64.70	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	504.71	55.10
For Bolt-On, Add	84.52	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	916.27	66.12
For Bolt-On, Add	140.25	
For Installation In New Panelboard, Deduct	-36.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,158.29	85.71
For Bolt-On, Add	178.00	
For Installation In New Panelboard, Deduct	-47.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.94	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,834.83	99.18
For Bolt-On, Add	267.92	
For Installation In New Panelboard, Deduct	-55.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,953.82	105.31
For Bolt-On, Add	284.94	
For Installation In New Panelboard, Deduct	-58.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.79	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	125.74	22.04
For Bolt-On, Add	24.29	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	125.74	22.04
For Bolt-On, Add	24.29	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	213.80	27.55
For Bolt-On, Add	37.44	
For Installation In New Panelboard, Deduct	-15.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37	
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	267.74	33.06
For Bolt-On, Add	46.32	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	267.74	33.06
For Bolt-On, Add	46.32	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	482.71	44.08
For Bolt-On, Add	77.48	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	885.77	55.10
For Bolt-On, Add	132.15	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,709.14	68.57
For Bolt-On, Add	240.43	
For Installation In New Panelboard, Deduct	-38.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.92	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	438.17	44.08
For Bolt-On, Add	71.91	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	438.17	44.08
For Bolt-On, Add	71.91	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	584.91	55.10
For Bolt-On, Add	94.54	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,090.58	66.12
For Bolt-On, Add	162.04	
For Installation In New Panelboard, Deduct	-36.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,124.96	85.71
For Bolt-On, Add	298.83	
For Installation In New Panelboard, Deduct	-47.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.94	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	181.21	22.04
For Bolt-On, Add	31.22	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	

26 Electrical
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity.....	181.21	22.04
For Bolt-On, Add	31.22	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	272.79	27.55
For Bolt-On, Add	44.81	
For Installation In New Panelboard, Deduct	-15.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	331.92	33.06
For Bolt-On, Add	54.35	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	331.92	33.06
For Bolt-On, Add	54.35	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	620.86	44.08
For Bolt-On, Add	94.75	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,120.18	55.10
For Bolt-On, Add	161.45	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,220.33	61.22
For Bolt-On, Add	301.11	
For Installation In New Panelboard, Deduct	-33.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.41	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	566.77	44.08
For Bolt-On, Add	87.99	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	566.77	44.08
For Bolt-On, Add	87.99	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	783.60	55.10
For Bolt-On, Add	119.38	
For Installation In New Panelboard, Deduct	-30.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.73	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,264.88	66.12
For Bolt-On, Add	183.82	
For Installation In New Panelboard, Deduct	-36.73	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.08	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,804.36	85.71
For Bolt-On, Add	383.76	
For Installation In New Panelboard, Deduct	-47.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.94	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	85.47	22.04
For Bolt-On, Add	19.26	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	176.29	33.06
For Bolt-On, Add	34.89	
For Installation In New Panelboard, Deduct	-18.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.04	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	277.06	44.08
For Bolt-On, Add	51.77	
For Installation In New Panelboard, Deduct	-24.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.39	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	171.70	22.04
For Bolt-On, Add	30.03	
For Installation In New Panelboard, Deduct	-12.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.69	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0134	EA		35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	171.70	22.04
			<i>For Bolt-On, Add</i>	30.03	
			<i>For Installation In New Panelboard, Deduct</i>	-12.25	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.69	
26 28 16 13-0135	EA		70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	341.98	44.08
			<i>For Bolt-On, Add</i>	59.89	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0136	EA		15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	384.78	33.06
			<i>For Bolt-On, Add</i>	60.95	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0137	EA		35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	384.78	33.06
			<i>For Bolt-On, Add</i>	60.95	
			<i>For Installation In New Panelboard, Deduct</i>	-18.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.04	
26 28 16 13-0138	EA		70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	740.00	44.08
			<i>For Bolt-On, Add</i>	109.64	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0139	EA		110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,252.41	55.10
			<i>For Bolt-On, Add</i>	177.98	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0140	EA		150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,747.33	68.57
			<i>For Bolt-On, Add</i>	370.20	
			<i>For Installation In New Panelboard, Deduct</i>	-38.26	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.92	
26 28 16 13-0141	EA		15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	642.39	44.08
			<i>For Bolt-On, Add</i>	97.44	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0142	EA		35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	642.39	44.08
			<i>For Bolt-On, Add</i>	97.44	
			<i>For Installation In New Panelboard, Deduct</i>	-24.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.39	
26 28 16 13-0143	EA		70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	893.38	55.10
			<i>For Bolt-On, Add</i>	133.10	
			<i>For Installation In New Panelboard, Deduct</i>	-30.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.73	
26 28 16 13-0144	EA		110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,361.05	66.12
			<i>For Bolt-On, Add</i>	195.84	
			<i>For Installation In New Panelboard, Deduct</i>	-36.73	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.08	
26 28 16 13-0145	EA		150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	3,416.17	85.71
			<i>For Bolt-On, Add</i>	460.23	
			<i>For Installation In New Panelboard, Deduct</i>	-47.45	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.94	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001			Motor And Circuit Disconnects (26 28 16 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002			NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0003			Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002) Note: Includes fuses and neutral bar.		
26 28 16 16-0004			240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0005	EA		30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	486.51	122.44
26 28 16 16-0006	EA		60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	778.35	147.54
26 28 16 16-0007	EA		100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,079.07	172.65
26 28 16 16-0008	EA		200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,866.31	271.83
26 28 16 16-0009	EA		400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,016.59	422.44

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0010 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,732.09	624.47
26 28 16 16-0011 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,219.73	734.67
26 28 16 16-0012 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,417.99	857.11
26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	755.80	136.04
26 28 16 16-0015 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	911.98	163.96
26 28 16 16-0016 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,471.44	191.63
26 28 16 16-0017 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,169.71	302.44
26 28 16 16-0018 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,792.56	469.21
26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,482.78	693.53
26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,129.43	815.85
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,254.67	952.38
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	686.52	192.24
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,020.34	255.30
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,392.14	283.46
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,203.63	443.87
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,636.01	728.55
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,590.75	1,020.58
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	908.86	212.44
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,151.10	283.46
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,726.05	318.97
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,536.52	486.11
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,739.52	784.88
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,275.30	1,133.84
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,897.85	1,346.89
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	19,101.87	1,530.56
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	663.31	192.24
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	990.35	255.30
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,337.58	283.46
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,278.67	443.87
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,058.87	728.55
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,226.91	1,020.58
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,739.02	1,285.67
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,975.02	1,469.34



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	994.00	212.44
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,255.73	283.46
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,879.05	318.97
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,765.55	486.11
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,228.17	784.88
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,138.31	1,133.84
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,330.65	1,346.89
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	20,649.59	1,530.56
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	471.83	177.18
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	738.85	246.48
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,029.88	283.46
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,611.57	453.54
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,284.45	755.85
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,412.69	1,030.74
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,782.92	1,224.45
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,315.98	1,429.05
26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	521.21	195.54
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	837.31	276.61
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,165.17	314.92
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,807.74	492.96
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,534.08	809.85
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,987.05	1,133.72
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,658.78	1,224.45
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,515.43	1,429.05
26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	545.81	159.18
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	841.76	221.63
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,148.21	255.30
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,801.88	408.35
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,646.78	680.18
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,927.21	927.52
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,341.32	1,102.01
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,518.75	1,285.67

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	594.91	175.71
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	924.28	249.18
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,250.47	283.46
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,943.25	443.87
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,907.23	728.55
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,403.59	1,020.58
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,920.97	1,102.01
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0093	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	638.11	175.96
26 28 16 16-0094	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	997.96	248.93
26 28 16 16-0095	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,370.30	283.46
26 28 16 16-0096	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,127.82	443.62
26 28 16 16-0097	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,165.41	728.79
26 28 16 16-0098	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,167.67	1,020.33
26 28 16 16-0099	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,793.04	1,102.01
26 28 16 16-0100	EA	1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	15,473.01	1,285.67
26 28 16 16-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0102	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	960.79	159.42
26 28 16 16-0103	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,153.00	221.87
26 28 16 16-0104	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,790.13	255.06
26 28 16 16-0105	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,679.82	408.11
26 28 16 16-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0107	EA	30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,039.64	175.71
26 28 16 16-0108	EA	60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,257.78	249.18
26 28 16 16-0109	EA	100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,938.27	283.46
26 28 16 16-0110	EA	200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,883.92	443.87
26 28 16 16-0111		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0112	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,159.90	175.96
26 28 16 16-0113	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,390.43	248.93
26 28 16 16-0114	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,176.80	283.46
26 28 16 16-0115	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,231.40	443.62
26 28 16 16-0116		General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
		<small>Note: Includes fuses and neutral bar.</small>		
26 28 16 16-0117		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Low-Voltage Circuit Protective Devices	26 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	331.92	106.53
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	456.89	128.20
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	715.32	149.87
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,334.93	236.44
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,226.80	366.72
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,072.34	542.80
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	453.31	167.38
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	643.72	221.87
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	908.52	246.48
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,635.08	385.83
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,764.02	633.77
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,767.52	887.23
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	509.42	167.38
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	734.18	221.87
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	990.84	246.48
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,842.47	385.83
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,118.50	633.77
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,992.23	887.23
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	452.81	148.16
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	609.79	170.32
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,407.01	272.19
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,052.12	453.05
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,327.74	617.37
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	428.13	138.60
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	585.86	192.85
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	910.00	221.87
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,573.35	354.97
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,330.38	591.65
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,708.44	806.42
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 28 16 16-0153	Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0155	EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	723.98	143.87
26 28 16 16-0156	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,166.53	172.65
26 28 16 16-0157	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,461.92	200.81
26 28 16 16-0158	EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,136.69	306.11
26 28 16 16-0159	EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,770.55	489.78
26 28 16 16-0160	EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,414.99	653.24
26 28 16 16-0161	EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,681.09	734.67
26 28 16 16-0162	EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,834.45	857.11
26 28 16 16-0163	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0164	EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,260.71	191.75
26 28 16 16-0165	EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,499.46	235.09
26 28 16 16-0166	EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,145.07	269.99
26 28 16 16-0167	EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,015.80	404.93
26 28 16 16-0168	EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,620.44	662.54
26 28 16 16-0169	EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,255.85	911.11
26 28 16 16-0170	EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,095.71	1,049.10
26 28 16 16-0171	EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,927.51	1,180.98
26 28 16 16-0172	240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0173	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	912.17	226.52
26 28 16 16-0174	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,463.66	299.99
26 28 16 16-0175	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,772.66	329.38
26 28 16 16-0176	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,622.61	509.98
26 28 16 16-0177	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,738.34	850.38
26 28 16 16-0178	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,647.23	1,133.84
26 28 16 16-0179	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0180	EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,416.87	268.52
26 28 16 16-0181	EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,688.20	329.13
26 28 16 16-0182	EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,276.78	377.86
26 28 16 16-0183	EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,302.67	566.92
26 28 16 16-0184	EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,025.15	927.64
26 28 16 16-0185	EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,795.26	1,275.51
26 28 16 16-0186	EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,201.63	1,469.34
26 28 16 16-0187	EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	21,816.00	1,653.01



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,007.32	226.52
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,466.42	299.99
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,906.43	329.38
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,711.84	509.98
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,820.19	850.38
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,547.53	1,133.84
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,765.21	1,285.67
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	22,179.87	1,469.34
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,471.46	268.76
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,749.57	329.38
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,413.19	377.74
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,391.34	566.92
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,345.71	927.52
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,163.56	1,275.27
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,361.38	1,469.34
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	23,344.69	1,653.01
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	690.18	125.99
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,135.37	174.48
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,500.71	200.08
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,981.11	323.99
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,459.71	540.47
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,204.51	720.59
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,281.61	857.48
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,574.72	979.93
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	777.87	138.86
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,287.57	194.32
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,696.33	219.42
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,203.99	340.16
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,073.94	566.92
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,864.13	755.85
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,168.89	898.26

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0224	EA		1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,742.85	1,020.33
26 28 16 16-0225			240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226	EA		30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	816.15	188.93
26 28 16 16-0227	EA		60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,309.80	261.67
26 28 16 16-0228	EA		100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,700.79	300.11
26 28 16 16-0229	EA		200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,305.03	485.99
26 28 16 16-0230	EA		400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,068.66	810.58
26 28 16 16-0231	EA		600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,059.29	1,080.58
26 28 16 16-0232	EA		800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,288.96	1,285.67
26 28 16 16-0233	EA		1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,980.92	1,469.34
26 28 16 16-0234			480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235	EA		30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	886.01	208.15
26 28 16 16-0236	EA		60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,425.78	291.54
26 28 16 16-0237	EA		100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,837.48	329.13
26 28 16 16-0238	EA		200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,448.85	510.22
26 28 16 16-0239	EA		400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,394.17	850.26
26 28 16 16-0240	EA		600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,657.65	1,133.72
26 28 16 16-0241	EA		800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,248.12	1,346.89
26 28 16 16-0242	EA		1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	20,247.22	1,530.56
26 28 16 16-0243			600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244	EA		30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	451.98	208.15
26 28 16 16-0245	EA		60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,481.92	291.54
26 28 16 16-0246	EA		100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,915.76	329.13
26 28 16 16-0247	EA		200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,544.11	510.22
26 28 16 16-0248	EA		400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,640.81	850.26
26 28 16 16-0249	EA		600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,619.96	1,133.72
26 28 16 16-0250	EA		800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,227.01	1,346.89
26 28 16 16-0251	EA		1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	20,218.49	1,530.56
26 28 16 16-0252			General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
			Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253			240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254	EA		30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	432.80	125.14
26 28 16 16-0255	EA		60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	617.86	150.11
26 28 16 16-0256	EA		100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	818.76	174.60
26 28 16 16-0257	EA		200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,704.01	266.19
26 28 16 16-0258	EA		400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,229.08	425.87



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,546.87	568.14
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches⁽²⁶⁾		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	577.63	197.26
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	840.06	260.93
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,041.59	286.28
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,060.10	443.62
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,858.73	739.33
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,393.12	986.17
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches⁽²⁶⁾		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	656.28	197.14
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	918.89	260.93
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,295.46	286.28
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,224.08	443.62
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,964.07	739.45
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,215.70	986.17
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,248.88	1,117.19
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches^(26 28 16 16-0152)		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches^(26 28 16 16-0275)		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	391.47	109.59
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	648.15	151.71
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	677.33	173.99
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,735.66	281.62
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,318.24	469.94
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,667.39	626.55
26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches^(26 28 16 16-0275)		
26 28 16 16-0284 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	614.71	164.32
26 28 16 16-0285 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	887.33	227.51
26 28 16 16-0286 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,318.81	260.93
26 28 16 16-0287 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,273.94	422.56
26 28 16 16-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches^(26 28 16 16-0001)		
26 28 16 16-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches^(26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches^(26 28 16 16-0289)		
26 28 16 16-0291 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,993.22	122.44



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,394.25	147.54
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,919.66	172.41
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,795.31	272.07
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,850.47	422.19
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,904.28	624.22
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,534.73	136.04
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,815.30	163.83
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,317.73	191.51
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,506.83	302.44
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,375.35	469.45
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,606.65	693.53
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,224.84	192.48
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,784.81	255.06
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,368.03	283.46
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,619.70	443.62
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,894.03	728.79
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,260.40	1,020.33
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,694.85	212.57
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,062.17	283.46
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,587.73	318.85
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,895.16	485.86
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,372.93	784.88
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,870.44	1,133.72
26 28 16 16-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,669.71	192.48
26 28 16 16-0320	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,340.95	255.06
26 28 16 16-0321	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,480.86	283.46
26 28 16 16-0322	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,141.44	443.62
26 28 16 16-0323	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,889.01	728.79
26 28 16 16-0324	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	25,376.22	1,020.33
26 28 16 16-0325		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,220.52	212.57



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,658.27	283.46
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,723.64	318.85
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,429.62	485.86
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,408.33	784.88
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	26,042.38	1,133.72
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,911.13	122.44
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,320.54	170.32
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,401.32	195.91
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,095.71	312.97
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,110.53	521.12
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,922.64	709.93
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,174.50	135.05
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,644.55	191.02
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,017.63	217.70
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,931.51	340.16
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,626.24	559.82
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,142.05	783.64
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,985.11	159.42
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,391.96	221.87
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,489.99	255.06
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,825.77	408.11
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,830.22	680.30
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,835.62	927.64
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,256.12	175.96
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,760.37	248.93
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,149.12	283.46
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,138.39	443.62
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,294.26	728.79
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,161.20	1,020.33

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0361	240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>	
26 28 16 16-0362 EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 2,745.66	159.42
26 28 16 16-0363 EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,284.03	221.87
26 28 16 16-0364 EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 7,455.27	255.06
26 28 16 16-0365 EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 11,367.89	408.11
26 28 16 16-0366	600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>	
26 28 16 16-0367 EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,125.32	175.96
26 28 16 16-0368 EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,743.90	248.93
26 28 16 16-0369 EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 8,504.12	283.46
26 28 16 16-0370 EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 12,946.24	443.62
26 28 16 16-0371	Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>	
26 28 16 16-0372	600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>	
26 28 16 16-0373 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,632.43	212.44
26 28 16 16-0374 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 4,129.51	283.46
26 28 16 16-0375 EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 7,473.61	318.97
26 28 16 16-0376 EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 9,708.94	486.11
26 28 16 16-0377	600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>	
26 28 16 16-0378 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,407.68	175.71
26 28 16 16-0379 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,893.94	249.18
26 28 16 16-0380 EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 7,069.88	283.46
26 28 16 16-0381 EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 9,594.45	443.87
26 28 16 16-0382	Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>	
26 28 16 16-0383	600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>	
26 28 16 16-0384 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 4,161.73	212.44
26 28 16 16-0385 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 4,721.78	283.46
26 28 16 16-0386 EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 8,593.69	318.97
26 28 16 16-0387	600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>	
26 28 16 16-0388 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 3,908.49	175.71
26 28 16 16-0389 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 4,454.73	249.18
26 28 16 16-0390 EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch 8,144.97	283.46
26 28 16 16-0391	NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0392		Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small> Note: With fuses and neutral bar.		
26 28 16 16-0393	EA	30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,270.93	244.89
26 28 16 16-0394	EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,689.50	291.54
26 28 16 16-0395	EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,090.01	329.13
26 28 16 16-0396	EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	8,729.53	510.22
26 28 16 16-0397		Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398	EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,513.45	291.54
26 28 16 16-0399	EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,944.67	329.13
26 28 16 16-0400	EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,438.93	510.22
26 28 16 16-0401		NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0402		Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small> Note: With fuses and neutral bar.		
26 28 16 16-0403		240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	706.63	122.44
26 28 16 16-0405	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	926.10	147.54
26 28 16 16-0406	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,271.46	172.65
26 28 16 16-0407	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,149.54	271.83
26 28 16 16-0408	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,629.80	422.44
26 28 16 16-0409	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,396.26	624.47
26 28 16 16-0410		600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,124.67	135.92
26 28 16 16-0412	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,153.27	164.08
26 28 16 16-0413	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,673.17	191.63
26 28 16 16-0414	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,617.00	302.44
26 28 16 16-0415	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,761.06	468.96
26 28 16 16-0416	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,460.00	693.65
26 28 16 16-0417		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	976.06	192.24
26 28 16 16-0419	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,355.19	255.30
26 28 16 16-0420	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,867.45	283.46
26 28 16 16-0421	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,769.65	443.87
26 28 16 16-0422	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,474.91	728.55
26 28 16 16-0423	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,829.90	1,020.58
26 28 16 16-0424		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,311.84	212.44
26 28 16 16-0426	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,473.99	283.46
26 28 16 16-0427	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,199.61	318.97
26 28 16 16-0428	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,195.26	486.11
26 28 16 16-0429	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,760.17	784.88

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,811.94	1,133.84
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,046.64	192.24
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,403.67	255.30
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,019.63	283.46
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,960.71	443.87
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,986.47	728.55
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,175.49	1,020.58
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,393.66	212.44
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,692.25	283.46
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,349.68	318.97
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,481.71	486.11
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,223.96	784.88
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	13,193.87	1,133.84
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	740.98	176.93
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	980.39	246.73
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,308.39	283.46
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,856.59	453.66
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,130.31	756.10
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,572.96	1,030.98
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	826.31	195.30
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	1,089.17	276.73
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,458.46	314.68
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,017.20	492.84
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,371.10	809.97
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,262.47	1,133.84
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.79	159.18
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,251.15	221.63
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,678.30	255.30
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,382.01	408.35
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,072.91	680.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,050.28	927.52
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	927.51	175.71
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,350.31	249.18
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,794.55	283.46
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,340.04	443.87
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,079.35	728.55
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,611.48	1,020.58
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,155.69	159.18
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,365.98	221.63
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,148.70	255.30
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,406.17	408.35
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,228.23	520.39
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,197.60	175.71
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,486.72	249.18
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,292.45	283.46
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,492.69	443.87
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,585.46	685.69
26 28 16 16-0486 Double Throw Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	885.97	157.35
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,316.24	205.71
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,851.65	268.76
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,471.63	349.58
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,075.36	437.12
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,078.96	701.00
26 28 16 16-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0496 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,112.01	220.40
26 28 16 16-0497 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,557.69	287.74
26 28 16 16-0498 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,360.53	376.52
26 28 16 16-0499 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,483.70	489.78
26 28 16 16-0500 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,369.10	612.22
26 28 16 16-0501 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,643.42	979.56
26 28 16 16-0502 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0503 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,482.32	275.50
26 28 16 16-0504 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,167.91	359.99
26 28 16 16-0505 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,893.75	470.18
26 28 16 16-0506 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,342.75	611.00
26 28 16 16-0507 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,896.21	765.28
26 28 16 16-0508 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,714.66	1,226.28

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0509	600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0510	EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,528.94	205.71
26 28 16 16-0511	EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,310.35	268.76
26 28 16 16-0512	EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,418.39	349.58
26 28 16 16-0513	EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,168.52	437.12
26 28 16 16-0514	EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,058.74	701.00
26 28 16 16-0515	600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0516	EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,692.82	287.74
26 28 16 16-0517	EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,525.19	376.52
26 28 16 16-0518	EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,697.63	489.78
26 28 16 16-0519	EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,518.43	612.22
26 28 16 16-0520	EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,617.71	979.56
26 28 16 16-0521	600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0522	EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,300.94	359.99
26 28 16 16-0523	EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,086.54	470.18
26 28 16 16-0524	EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,740.27	611.00
26 28 16 16-0525	EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,744.25	765.28
26 28 16 16-0526	EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,665.02	1,226.28
26 28 16 16-0527	NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0528	240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0529	EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,333.90	268.76
26 28 16 16-0530	EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,431.64	349.58
26 28 16 16-0531	EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	17,999.35	437.12
26 28 16 16-0532	EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	31,016.02	701.00
26 28 16 16-0533	240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0534	EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,052.07	375.90
26 28 16 16-0535	EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,962.51	489.17
26 28 16 16-0536	EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	18,510.63	612.22
26 28 16 16-0537	EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	20,023.20	981.39
26 28 16 16-0538	240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0539	EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,967.29	275.62
26 28 16 16-0540	EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,674.22	359.74
26 28 16 16-0541	EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,162.71	470.06
26 28 16 16-0542	EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,485.62	611.25
26 28 16 16-0543	EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,791.49	765.28
26 28 16 16-0544	EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,823.82	1,226.41
26 28 16 16-0545	600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0546	EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,986.03	205.71
26 28 16 16-0547	EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,035.95	268.76
26 28 16 16-0548	EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,567.88	349.58
26 28 16 16-0549	EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	10,782.99	437.12
26 28 16 16-0550	EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,375.25	701.00
26 28 16 16-0551	600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0552	EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,233.61	287.74
26 28 16 16-0553	EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,382.58	375.90
26 28 16 16-0554	EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	6,103.31	489.17
26 28 16 16-0555	EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	11,654.45	612.22
26 28 16 16-0556	EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	15,616.18	981.39
26 28 16 16-0557	600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0558 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,705.06	359.74
26 28 16 16-0559 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,176.85	470.06
26 28 16 16-0560 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,682.01	611.25
26 28 16 16-0561 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,768.30	765.28
26 28 16 16-0562 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch... 14,951.63	14,951.63	1,226.41
26 28 16 16-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0565 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,393.35	157.47
26 28 16 16-0566 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,703.03	205.58
26 28 16 16-0567 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,047.89	268.64
26 28 16 16-0568 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,195.83	349.34
26 28 16 16-0569 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,903.49	437.26
26 28 16 16-0570 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,572.57	700.75
26 28 16 16-0571 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0572 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,738.61	220.40
26 28 16 16-0573 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,231.36	287.74
26 28 16 16-0574 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,824.47	375.90
26 28 16 16-0575 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,342.61	489.17
26 28 16 16-0576 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,820.29	612.22
26 28 16 16-0577 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,925.70	981.39
26 28 16 16-0578 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0579 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,107.66	275.62
26 28 16 16-0580 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,794.97	359.74
26 28 16 16-0581 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,580.89	470.06
26 28 16 16-0582 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,947.35	611.25
26 28 16 16-0583 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	16,672.00	765.28
26 28 16 16-0584 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	20,633.85	1,226.41
26 28 16 16-0585 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0586 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,585.42	205.58
26 28 16 16-0587 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,754.74	268.64
26 28 16 16-0588 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,165.94	349.34
26 28 16 16-0589 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,360.78	437.26
26 28 16 16-0590 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,877.80	700.75
26 28 16 16-0591 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0592 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,916.91	287.74
26 28 16 16-0593 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,139.07	375.90
26 28 16 16-0594 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,785.22	489.17
26 28 16 16-0595 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,209.60	612.22
26 28 16 16-0596 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	15,092.01	981.39
26 28 16 16-0597 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0598 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,845.24	359.74
26 28 16 16-0599 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,951.71	470.06
26 28 16 16-0600 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,165.91	611.25
26 28 16 16-0601 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	17,142.46	765.28
26 28 16 16-0602 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	21,257.43	1,226.41
26 28 16 16-0603 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small>		
Note: Includes storage and cleaning.		
26 28 16 16-0604 EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch.....	612.22	
26 28 16 16-0605 EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	795.92	
26 28 16 16-0606 EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	887.79	
26 28 16 16-0607 EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,040.85	
26 28 16 16-0608 Bolted Contact Switches <small>(26 28 16 16)</small>		
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0609 Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 28 16 16-0610	Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0611 EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	10,111.99	1,224.45
26 28 16 16-0612 EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	10,930.55	1,469.34
26 28 16 16-0613 EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	11,881.87	1,714.23
26 28 16 16-0614 EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	12,529.72	1,959.12
26 28 16 16-0615 EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	14,151.27	2,204.00
26 28 16 16-0616 EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	17,783.42	2,448.90
26 28 16 16-0617 EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	24,010.80	2,938.68

26 28 16 16-0618	Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0619 EA	800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	10,725.29	1,224.45
26 28 16 16-0620 EA	1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	11,663.98	1,469.34
26 28 16 16-0621 EA	1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	12,608.98	1,714.23
26 28 16 16-0622 EA	2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	13,572.96	1,959.12
26 28 16 16-0623 EA	2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	15,276.71	2,204.00
26 28 16 16-0624 EA	3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	19,895.20	2,448.90
26 28 16 16-0625 EA	4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	26,211.09	2,938.68

26 28 16 16-0626	Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		
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26 28 16 16-0627	Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 EA	800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	7,355.30	1,224.45
26 28 16 16-0629 EA	1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	8,206.74	1,469.34
26 28 16 16-0630 EA	1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	9,110.01	1,714.23
26 28 16 16-0631 EA	2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	10,005.71	1,959.12
26 28 16 16-0632 EA	2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	10,964.64	2,204.00
26 28 16 16-0633 EA	3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	14,596.79	2,448.90
26 28 16 16-0634 EA	4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	20,748.29	2,938.68

26 28 16 16-0635	Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0636 EA	800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	7,761.22	1,224.45
26 28 16 16-0637 EA	1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	8,820.04	1,469.34
26 28 16 16-0638 EA	1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	9,704.34	1,714.23
26 28 16 16-0639 EA	2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	10,790.98	1,959.12
26 28 16 16-0640 EA	2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	11,950.98	2,204.00
26 28 16 16-0641 EA	3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	16,550.50	2,448.90
26 28 16 16-0642 EA	4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	22,796.84	2,938.68

26 29 Low-Voltage Controllers (26 20)

26 29 13 Enclosed Controllers (26 29)

26 29 13 13 Across-The-Line Motor Controllers (26 29 13)

26 29 13 13-0001 Manual Motor Starters (26 29 13 13)

26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)

26 29 13 13-0003 EA	NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	231.62	61.37
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.02	
	<i>For Oversized Enclosure, Add</i>	30.38	
	<i>For Pilot Light, Add</i>	44.56	
26 29 13 13-0004 EA	NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	303.39	79.78
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.02	
	<i>For Oversized Enclosure, Add</i>	30.38	
	<i>For Pilot Light, Add</i>	44.56	
26 29 13 13-0005 EA	NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	262.00	61.37
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.02	
	<i>For Oversized Enclosure, Add</i>	30.38	
	<i>For Pilot Light, Add</i>	44.56	
26 29 13 13-0006 EA	NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	333.78	79.78
	<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.02	
	<i>For Oversized Enclosure, Add</i>	30.38	
	<i>For Pilot Light, Add</i>	44.56	
26 29 13 13-0007 EA	NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	244.78	61.37
	<i>For Oversized Enclosure, Add</i>	30.38	
26 29 13 13-0008 EA	NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	320.61	79.78
	<i>For Oversized Enclosure, Add</i>	30.38	
26 29 13 13-0009 EA	NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	493.14	73.65
	<i>For Pilot Light, Add</i>	116.46	
26 29 13 13-0010 EA	NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	567.95	92.05
	<i>For Pilot Light, Add</i>	116.46	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0011	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	523.52	73.65
26 29 13 13-0012	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	595.29	92.05
26 29 13 13-0013 Non-Reversing Manual Motor Starters (26 29 13 13-0001)					
26 29 13 13-0014	EA		NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	187.23	61.37
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0015	EA		NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	305.17	79.78
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0016	EA		NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	211.24	67.50
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0017	EA		NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	330.14	85.92
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0018	EA		NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	215.57	61.37
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0019	EA		NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	334.49	79.78
			Note: NEMA 1 or flush cover plate installation.		
			For Oversize Enclosure, Add	14.66	
			For Pilot Light, Add	70.36	
26 29 13 13-0020	EA		NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	454.13	73.65
			For Pilot Light, Add	111.40	
26 29 13 13-0021	EA		NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	561.30	92.05
			For Pilot Light, Add	111.40	
26 29 13 13-0022	EA		NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	479.11	79.78
			For Pilot Light, Add	111.40	
26 29 13 13-0023	EA		NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	583.36	98.19
			For Pilot Light, Add	111.40	
26 29 13 13-0024	EA		NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	481.49	73.65
26 29 13 13-0025	EA		NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	596.48	92.05
26 29 13 13-0026	EA		Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	136.73	42.96
			For Pilot Light, Add	70.36	
26 29 13 13-0027	EA		Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	254.66	61.37
			For Pilot Light, Add	70.36	
26 29 13 13-0028	EA		Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	160.73	49.10
			For Pilot Light, Add	70.36	
26 29 13 13-0029	EA		Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	278.67	67.50
			For Pilot Light, Add	70.36	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)					
26 29 13 13-0031	EA		NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	501.39	110.47
			For Pilot Light, Add	113.35	
26 29 13 13-0032	EA		NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	725.52	147.29
			For Pilot Light, Add	113.35	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)					
26 29 13 13-0034	EA		NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	501.39	110.47
26 29 13 13-0035	EA		NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	725.52	147.29
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0037	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	458.21	73.65
26 29 13 13-0038	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	458.21	73.65
26 29 13 13-0039	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	944.56	85.92
26 29 13 13-0040	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	944.56	85.92
26 29 13 13-0041	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,232.17	85.92
26 29 13 13-0042	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	583.02	85.92
26 29 13 13-0043	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	391.01	55.23
26 29 13 13-0044	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	543.41	79.78
26 29 13 13-0045	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	543.41	79.78
26 29 13 13-0046	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,130.01	92.05
26 29 13 13-0047	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,130.01	92.05
26 29 13 13-0048	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,439.90	92.05
26 29 13 13-0049	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	668.21	92.05
26 29 13 13-0050	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	476.20	61.37
26 29 13 13-0051	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	712.65	85.92
26 29 13 13-0052	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	712.65	85.92
26 29 13 13-0053	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,342.81	98.19
26 29 13 13-0054	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,342.81	98.19
26 29 13 13-0055	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,639.53	98.19
26 29 13 13-0056	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	840.50	98.19
26 29 13 13-0057	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	648.49	67.50
26 29 13 13-0058	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	567.45	92.05
26 29 13 13-0059	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	567.45	92.05
26 29 13 13-0060	EA		NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,053.80	104.33
26 29 13 13-0061	EA		NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,053.80	104.33
26 29 13 13-0062	EA		NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,349.51	104.33
26 29 13 13-0063	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	693.27	104.33
26 29 13 13-0064	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	503.29	73.65
26 29 13 13-0065	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	652.65	98.19
26 29 13 13-0066	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	652.65	98.19
26 29 13 13-0067	EA		NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,239.26	110.47
26 29 13 13-0068	EA		NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,239.26	110.47
26 29 13 13-0069	EA		NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,556.24	110.47
26 29 13 13-0070	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	777.46	110.47
26 29 13 13-0071	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	585.45	79.78
26 29 13 13-0072	Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>				
26 29 13 13-0073	EA		NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,319.62	128.87
26 29 13 13-0074	EA		NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,319.62	128.87
26 29 13 13-0075	EA		Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,159.89	92.05
26 29 13 13-0076	EA		NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,559.88	141.15
26 29 13 13-0077	EA		Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,400.15	104.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,319.62	128.87
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,159.89	92.05
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,559.88	141.15
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,400.15	104.33
26 29 13 13-0083 Magnetic Contactors/Starters <small>(26 29 13 13)</small>		
26 29 13 13-0084 Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0083)</small>		
26 29 13 13-0085 Open Enclosure, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....	536.14	122.74
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....	603.21	135.02
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....	578.67	122.74
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....	646.76	135.02
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....	713.85	147.29
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....	901.93	184.11
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,134.57	220.94
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	674.10	135.02
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	741.19	147.29
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	810.30	159.57
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,036.22	214.80
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,267.85	251.62
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,132.10	147.29
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,261.45	184.11
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,644.46	245.49
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,694.89	184.11
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,934.09	245.49
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,459.89	306.86
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,506.24	368.23
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,815.92	306.86
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,198.94	368.23
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,676.69	429.60
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,675.60	368.23
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,527.70	490.97
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,070.59	736.45
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	31,606.56	1,104.68
26 29 13 13-0112 NEMA 1, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	567.53	122.74
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	634.61	135.02
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	610.07	122.74
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	679.17	135.02
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	746.25	147.29



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0118	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	936.37	184.11
26 29 13 13-0119	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,170.01	220.94
26 29 13 13-0120	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	707.52	135.02
26 29 13 13-0121	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	776.63	147.29
26 29 13 13-0122	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....	843.72	159.57
26 29 13 13-0123	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,070.65	214.80
26 29 13 13-0124	EA		Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,301.27	251.62
26 29 13 13-0125	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,281.98	147.29
26 29 13 13-0126	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,412.34	184.11
26 29 13 13-0127	EA		Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,794.34	245.49
26 29 13 13-0128	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1).....	1,989.59	184.11
26 29 13 13-0129	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,227.78	245.49
26 29 13 13-0130	EA		Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,754.59	306.86
26 29 13 13-0131	EA		Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,426.59	306.86
26 29 13 13-0132	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,809.61	368.23
26 29 13 13-0133	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,640.68	490.97
26 29 13 13-0134	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2).....	26,965.06	736.45
26 29 13 13-0135	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJJ2).....	36,515.21	1,104.68
26 29 13 13-0136			NEMA 12, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1).....	852.34	135.02
26 29 13 13-0138	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2).....	919.43	147.29
26 29 13 13-0139	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,016.89	159.57
26 29 13 13-0140	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,597.95	147.29
26 29 13 13-0141	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,729.32	184.11
26 29 13 13-0142	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,364.30	184.11
26 29 13 13-0143	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,601.48	245.49
26 29 13 13-0144	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2).....	6,050.19	368.23
26 29 13 13-0145	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2).....	12,815.55	490.97
26 29 13 13-0146	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2).....	30,857.95	736.45
26 29 13 13-0147			NEMA 4/4X, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.					
26 29 13 13-0148	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,251.60	147.29
26 29 13 13-0149	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,296.16	147.29
26 29 13 13-0150	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,363.24	159.57
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,590.18	214.80
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,451.39	184.11
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,698.25	245.49
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,320.14	368.23
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,815.55	490.97
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,175.62	736.45



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0157 NEMA 7/9, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Bolted cast iron enclosure.		
26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,489.11	196.39
26 29 13 13-0159 Non-Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160 Open Enclosure, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11).....	636.40	122.74
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12).....	660.94	135.02
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1).....	710.56	135.02
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2).....	785.75	147.29
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4).....	1,261.16	220.94
26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1).....	808.03	147.29
26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3).....	947.02	159.57
26 29 13 13-0168 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2).....	989.55	159.57
26 29 13 13-0169 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6).....	1,224.26	147.29
26 29 13 13-0170 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....	1,392.09	184.11
26 29 13 13-0171 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....	2,149.80	245.49
26 29 13 13-0172 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....	4,531.11	368.23
26 29 13 13-0173 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1).....	10,250.33	490.97
26 29 13 13-0174 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2).....	23,505.61	736.45
26 29 13 13-0175 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2).....	33,866.95	1,104.68
26 29 13 13-0176 NEMA 1, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177 EA Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11).....	669.82	122.74
26 29 13 13-0178 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12).....	694.36	135.02
26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1).....	743.98	135.02
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2).....	819.17	147.29
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1).....	840.44	147.29
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3).....	916.63	159.57
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2).....	1,023.98	159.57
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6).....	1,375.15	147.29
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1).....	1,542.98	184.11
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1).....	2,444.51	245.49
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1).....	5,141.78	368.23
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1).....	11,366.35	490.97
26 29 13 13-0189 NEMA 12, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1).....	917.16	135.02
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2).....	992.34	147.29
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1).....	1,013.61	147.29
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3).....	1,089.81	159.57
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2).....	1,197.16	159.57
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6).....	1,692.13	147.29
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1).....	1,858.95	184.11

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0197	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1).....	2,818.20	245.49
26 29 13 13-0198	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1).....	6,381.35	368.23
26 29 13 13-0199	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1).....	14,538.19	490.97
26 29 13 13-0200	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2).....	34,616.15	736.45
26 29 13 13-0201			NEMA 3R, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....	917.16	135.02
26 29 13 13-0203	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....	992.34	147.29
26 29 13 13-0204	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....	1,013.61	147.29
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....	1,089.81	159.57
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....	1,197.16	159.57
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....	1,692.13	147.29
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....	1,858.95	184.11
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....	2,818.20	245.49
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....	6,381.35	368.23
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....	2,594.68	208.66
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....	3,184.08	208.66
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....	3,281.53	220.94
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....	5,075.55	245.49
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....	6,121.88	306.86
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41).....	9,748.84	429.60
26 29 13 13-0218			NEMA 4/4X, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....	1,248.32	135.02
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....	1,324.52	147.29
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....	1,359.96	147.29
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....	1,436.16	159.57
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....	1,543.51	159.57
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....	2,412.18	147.29
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....	3,913.96	245.49
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....	7,650.28	368.23
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11).....	16,977.83	490.97
26 29 13 13-0228			NEMA 4X, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....	2,582.03	184.11
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....	4,770.72	245.49
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....	9,380.01	368.23
26 29 13 13-0232			NEMA 7/9, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....	2,510.38	196.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0234 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....	2,594.68	208.66
26 29 13 13-0235 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....	2,631.13	208.66
26 29 13 13-0236 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....	2,711.37	220.94
26 29 13 13-0237 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....	2,834.93	220.94
26 29 13 13-0238 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....	4,160.05	245.49
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,193.11	159.57
26 29 13 13-0242 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,256.91	159.57
26 29 13 13-0243 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,390.83	171.84
26 29 13 13-0244 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,443.74	184.11
26 29 13 13-0245 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,479.18	184.11
26 29 13 13-0246 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,582.72	196.39
26 29 13 13-0247 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,649.93	214.80
26 29 13 13-0248 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCOT).....	1,686.38	214.80
26 29 13 13-0249 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,869.85	245.49
26 29 13 13-0250 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,688.08	368.23
26 29 13 13-0251 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	10,755.89	552.34
26 29 13 13-0252 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	20,014.77	736.45
26 29 13 13-0253 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	64,729.36	1,350.16
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,229.32	147.29
26 29 13 13-0256 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,284.25	159.57
26 29 13 13-0257 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,320.71	159.57
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,451.59	171.84
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,506.53	184.11
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,542.98	184.11
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,673.87	196.39
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,741.07	214.80
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,777.53	214.80
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,106.82	245.49
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,098.23	368.23
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,509.36	552.34
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,765.78	184.11
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,802.24	184.11
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,036.79	214.80
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,540.27	245.49
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
Note: Brushed stainless steel enclosure.		

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0273	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,205.30	184.11
26 29 13 13-0274	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,597.47	196.39
26 29 13 13-0275			Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276	EA		NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	164.64	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0277	EA		NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	278.97	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0278	EA		NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	164.64	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0279	EA		NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	278.97	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0280	EA		NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	278.97	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0281	EA		Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	138.88	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0282	EA		External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	123.87	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0283	EA		External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	164.64	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0284	EA		External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	138.88	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0285	EA		External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	185.43	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0286	EA		30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	207.02	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0287	EA		45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	355.99	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0288	EA		60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	377.94	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0289	EA		30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	452.20	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0290	EA		45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	788.26	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0291	EA		60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	788.26	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0292	EA		Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	48.56	9.20
			<i>For Factory Installed Accessory, Deduct</i>	-18.41	
26 29 13 13-0293	EA		1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	98.46	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0294	EA		2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	130.00	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0295	EA		Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	102.28	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0296	EA		Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	56.88	9.20
			<i>For Factory Installed Accessory, Deduct</i>	-18.41	
26 29 13 13-0297	EA		Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	34.93	9.20
			<i>For Factory Installed Accessory, Deduct</i>	-18.41	
26 29 13 13-0298	EA		1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	180.46	12.27
			<i>For Factory Installed Accessory, Deduct</i>	-24.55	
26 29 13 13-0299	EA		2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	311.31	15.35
			<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0300			Definite Purpose Starters <small>(26 29 13 13)</small>		
26 29 13 13-0301			Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302	EA		Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	595.36	147.29
			<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0303	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	594.34	147.29
			<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0304	EA		Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	643.20	159.57
			<i>For Factory Installed Accessory, Deduct</i>	-319.13	
26 29 13 13-0305	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	631.82	147.29
			<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0306	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	686.75	159.57
			<i>For Factory Installed Accessory, Deduct</i>	-319.13	
26 29 13 13-0307	EA		Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	664.22	147.29
			<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0308	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	772.30	184.11
			<i>For Factory Installed Accessory, Deduct</i>	-368.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	856.36	184.11
<i>For Factory Installed Accessory, Deduct</i>	-368.23	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	1,075.71	214.80
<i>For Factory Installed Accessory, Deduct</i>	-429.60	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	606.25	135.02
<i>For Factory Installed Accessory, Deduct</i>	-270.03	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13).....	655.11	147.29
<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	653.08	147.29
<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	704.98	159.57
<i>For Factory Installed Accessory, Deduct</i>	-319.13	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32).....	691.57	147.29
<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33).....	747.51	159.57
<i>For Factory Installed Accessory, Deduct</i>	-319.13	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42).....	726.00	147.29
<i>For Factory Installed Accessory, Deduct</i>	-294.58	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43).....	833.07	184.11
<i>For Factory Installed Accessory, Deduct</i>	-368.23	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52).....	914.09	184.11
<i>For Factory Installed Accessory, Deduct</i>	-368.23	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53).....	1,134.45	214.80
<i>For Factory Installed Accessory, Deduct</i>	-429.60	
26 29 13 13-0322 Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory..... Note: Or Hand-Off-Auto Selector Switch Kit	185.43	15.35
<i>For Factory Installed Accessory, Deduct</i>	-30.68	
26 29 13 13-0324 Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>		
26 29 13 13-0325 Non-Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	180.46	61.37
26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	210.97	67.50
26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	210.97	67.50
26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	234.38	73.65
26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	198.69	61.37
26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	208.82	61.37
26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	228.19	67.50
26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	238.32	67.50
26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	234.27	67.50
26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	238.32	67.50
26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	254.64	73.65

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0337	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	244.39	67.50
26 29 13 13-0338	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	264.77	73.65
26 29 13 13-0339	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	246.42	67.50
26 29 13 13-0340	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	246.42	67.50
26 29 13 13-0341	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	274.89	73.65
26 29 13 13-0342	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	274.89	73.65
26 29 13 13-0343			Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0344	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	254.39	61.37
26 29 13 13-0345	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	274.65	61.37
26 29 13 13-0346	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	304.14	67.50
26 29 13 13-0347	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	304.14	67.50
26 29 13 13-0348	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	324.40	67.50
26 29 13 13-0349	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	340.72	73.65
26 29 13 13-0350	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	340.72	73.65
26 29 13 13-0351	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	291.86	61.37
26 29 13 13-0352	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	312.12	61.37
26 29 13 13-0353	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	339.59	67.50
26 29 13 13-0354	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	359.84	67.50
26 29 13 13-0355	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	382.24	73.65
26 29 13 13-0356	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	402.50	73.65
26 29 13 13-0357	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	328.45	67.50
26 29 13 13-0358	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	376.05	67.50
26 29 13 13-0359	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	424.77	73.65
26 29 13 13-0360			Panel Mounted Miniature Contactor Accessories <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361	EA		2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	77.27	30.68
26 29 13 13-0362	EA		4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	85.09	30.68
26 29 13 13-0363	EA		Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	99.25	30.68
26 29 13 13-0364	EA		Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LRR2K0301).....	127.41	30.68
26 29 13 13-0365			Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole <small>(26 29 13 13)</small>		
26 29 13 13-0366			NEMA 1 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367	EA		Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... <i>For NEMA 4, Add</i>	7,284.06 760.45	587.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	12,681.96 1,389.02	783.64
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	22,136.62 2,535.17	930.58
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	53,820.56 6,444.13	1,138.74
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	85,816.62 10,362.66	1,457.09
26 29 13 13-0372 NEMA 12 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,233.39	600.22
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	12,589.41	784.88
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	21,967.69	927.64
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	53,391.16	1,133.72
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	85,126.11	1,457.70
26 29 13 13-0378 Factory Modifications Pilot Devices <small>(26 29 13 13-0365)</small>		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	179.16	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	197.60	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	336.35	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	182.75	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	262.77	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	131.39	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	428.84	
26 29 13 13-0386 Factory Modifications Meters <small>(26 29 13 13-0365)</small>		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,723.80	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,664.95	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	588.61	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	487.73	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers <small>(26 29 13 13-0365)</small>		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,278.25	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,166.64	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,862.86	
26 29 13 13-0395 Factory Modifications Addition <small>(26 29 13 13-0365)</small>		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	382.62	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	382.62	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	382.62	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	382.62	
26 29 13 13-0400 Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401 240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,457.38 169.20	281.62
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,826.72 178.49	440.80
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,507.82 282.62	514.27
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,751.29 470.41	636.71
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	6,816.24 907.34	1,016.30
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	13,272.94 2,037.18	1,273.43
26 29 13 13-0409 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0410	EA		Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,809.67	281.62
			<i>For Electronic Overloads, Add</i>	236.13	
26 29 13 13-0411	EA		Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,179.01	440.80
			<i>For Electronic Overloads, Add</i>	245.43	
26 29 13 13-0412	EA		Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,850.32	514.27
			<i>For Electronic Overloads, Add</i>	347.69	
26 29 13 13-0413	EA		Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,937.22	636.71
			<i>For Electronic Overloads, Add</i>	505.73	
26 29 13 13-0414	EA		Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,882.89	1,016.30
			<i>For Electronic Overloads, Add</i>	1,110.01	
26 29 13 13-0415	EA		Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	16,101.05	1,273.43
			<i>For Electronic Overloads, Add</i>	2,574.52	
26 29 13 13-0416			Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417	EA		Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	160.43	
26 29 13 13-0418	EA		H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	376.81	
26 29 13 13-0419	EA		Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	260.06	
26 29 13 13-0420			NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421	EA		Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,585.78	367.34
			<i>For Electronic Overloads, Add</i>	347.69	
26 29 13 13-0422	EA		Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,899.25	514.27
			<i>For Electronic Overloads, Add</i>	356.99	
26 29 13 13-0423	EA		Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,069.50	563.25
			<i>For Electronic Overloads, Add</i>	557.79	
26 29 13 13-0424	EA		Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,361.06	685.69
			<i>For Electronic Overloads, Add</i>	950.11	
26 29 13 13-0425	EA		Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,045.56	1,016.30
			<i>For Electronic Overloads, Add</i>	1,520.91	
26 29 13 13-0426	EA		Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	21,512.61	1,273.43
			<i>For Electronic Overloads, Add</i>	3,602.72	
26 29 13 13-0427			NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428	EA		Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,938.07	367.34
			<i>For Electronic Overloads, Add</i>	414.63	
26 29 13 13-0429	EA		Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,251.54	514.27
			<i>For Electronic Overloads, Add</i>	423.92	
26 29 13 13-0430	EA		Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,412.00	563.25
			<i>For Electronic Overloads, Add</i>	622.87	
26 29 13 13-0431	EA		Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,546.99	685.69
			<i>For Electronic Overloads, Add</i>	985.43	
26 29 13 13-0432	EA		Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	11,112.22	1,016.30
			<i>For Electronic Overloads, Add</i>	1,723.58	
26 29 13 13-0433	EA		Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	20,406.81	1,273.43
			<i>For Electronic Overloads, Add</i>	3,392.62	
26 29 13 13-0434			Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435	EA		Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	160.45	
26 29 13 13-0436	EA		H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	376.81	
26 29 13 13-0437	EA		Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	260.06	
26 29 13 13-0438			NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439	EA		Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,501.90	283.46
			<i>For Electronic Overloads, Add</i>	177.66	
26 29 13 13-0440	EA		Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,873.69	443.62
			<i>For Electronic Overloads, Add</i>	187.42	
26 29 13 13-0441	EA		Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,582.19	510.22
			<i>For Electronic Overloads, Add</i>	296.75	
26 29 13 13-0442	EA		Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,875.07	637.69
			<i>For Electronic Overloads, Add</i>	493.92	
26 29 13 13-0443	EA		Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,055.01	1,020.46
			<i>For Electronic Overloads, Add</i>	952.71	
26 29 13 13-0444	EA		Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,809.03	1,275.39
			<i>For Electronic Overloads, Add</i>	2,139.04	
26 29 13 13-0445			NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446	EA		Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,922.56	283.46
			<i>For Electronic Overloads, Add</i>	257.58	
26 29 13 13-0447	EA		Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,296.35	443.62
			<i>For Electronic Overloads, Add</i>	267.72	
26 29 13 13-0448	EA		Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,016.55	510.22
			<i>For Electronic Overloads, Add</i>	379.27	
26 29 13 13-0449	EA		Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,179.00	637.69
			<i>For Electronic Overloads, Add</i>	551.67	
26 29 13 13-0450	EA		Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,413.58	1,020.46
			<i>For Electronic Overloads, Add</i>	1,210.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	17,331.91 2,808.39	1,275.99
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	159.12	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	373.68	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	257.90	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,313.34	587.74
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,483.89	783.64
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,965.33	1,077.52
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,325.15	1,469.34
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,975.14	2,057.07
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	954.10	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	954.10	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	954.10	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,817.03	367.34
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,152.64	514.27
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,026.39	563.25
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,496.73	685.69
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	8,609.31	1,016.30
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,002.91	367.34
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,351.05	514.27
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,258.66	563.25
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,176.95	685.69
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	9,237.59	1,016.30
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,925.12	377.99
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,267.96	510.22
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,219.16	566.92
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,816.18	680.30
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	9,278.36	1,020.46
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,129.93	377.99
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,486.59	510.22
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,475.10	566.92
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,463.82	680.30
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	9,970.63	1,020.46
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,045.49	783.64
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,399.56	979.56
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,273.96	1,273.43
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	9,843.34	1,665.25
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	17,666.08	2,252.98
26 29 13 13-0498 Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking.....	1,409.41	220.40
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,669.51	220.40
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	874.61	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 29 13	13-0504	Auxiliary Devices <small>(26 29 13 13)</small>			
26 29 13	13-0505	EA Normally Open, Auxiliary Contact	447.40		122.44
26 29 13	13-0506	EA Normally Closed, Auxiliary Contact	447.40		122.44
26 29 13	13-0507	EA Pilot Light Kit	467.83		122.44
26 29 23		Variable-Frequency Motor Controllers <small>(26 29)</small>			
26 29 23	00-0001	208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small> <small>Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.</small>			
26 29 23	00-0002	EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,326.78		455.16
		<i>For 6-Pulse Drive Package, Deduct</i>	-778.99		
26 29 23	00-0003	EA 1 HP, 208/230 Volt Variable Frequency Drive	2,620.89		497.46
		<i>For 6-Pulse Drive Package, Deduct</i>	-896.81		
26 29 23	00-0004	EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	3,047.15		546.99
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,074.24		
26 29 23	00-0005	EA 2 HP, 208/230 Volt Variable Frequency Drive	3,215.15		525.78
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,189.97		
26 29 23	00-0006	EA 3 HP, 208/230 Volt Variable Frequency Drive	3,446.17		573.25
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,264.82		
26 29 23	00-0007	EA 5 HP, 208/230 Volt Variable Frequency Drive	3,729.69		573.25
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,420.76		
26 29 23	00-0008	EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,456.15		684.45
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,697.98		
26 29 23	00-0009	EA 10 HP, 208/230 Volt Variable Frequency Drive	4,865.69		684.45
		<i>For 6-Pulse Drive Package, Deduct</i>	-1,923.23		
26 29 23	00-0010	EA 15 HP, 208/230 Volt Variable Frequency Drive	6,408.50		1,030.58
		<i>For 6-Pulse Drive Package, Deduct</i>	-2,391.04		
26 29 23	00-0011	EA 20 HP, 208/230 Volt Variable Frequency Drive	7,542.60		1,030.58
		<i>For 6-Pulse Drive Package, Deduct</i>	-3,014.79		
26 29 23	00-0012	EA 25 HP, 208/230 Volt Variable Frequency Drive	9,195.95		1,369.03
		<i>For 6-Pulse Drive Package, Deduct</i>	-3,551.91		
26 29 23	00-0013	EA 30 HP, 208/230 Volt Variable Frequency Drive	10,613.56		1,369.03
		<i>For 6-Pulse Drive Package, Deduct</i>	-4,331.59		
26 29 23	00-0014	EA 40 HP, 208/230 Volt Variable Frequency Drive	11,842.16		1,369.03
		<i>For 6-Pulse Drive Package, Deduct</i>	-5,007.32		
26 29 23	00-0015	EA 50 HP, 208/230 Volt Variable Frequency Drive	15,621.10		1,730.63
		<i>For 6-Pulse Drive Package, Deduct</i>	-6,687.98		
26 29 23	00-0016	EA 60 HP, 208/230 Volt Variable Frequency Drive	18,837.75		2,047.30
		<i>For 6-Pulse Drive Package, Deduct</i>	-8,108.74		
26 29 23	00-0017	EA 75 HP, 208/230 Volt Variable Frequency Drive	21,357.95		2,047.30
		<i>For 6-Pulse Drive Package, Deduct</i>	-9,494.85		
26 29 23	00-0018	460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small> <small>Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.</small>			
26 29 23	00-0019	EA 3 HP, 480 Volt Variable Frequency Drive	5,544.20		818.94
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-2,148.47		
26 29 23	00-0020	EA 5 HP, 480 Volt Variable Frequency Drive	5,733.21		818.94
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-2,252.43		
26 29 23	00-0021	EA 7.5 HP, 480 Volt Variable Frequency Drive	6,267.28		975.78
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-2,373.71		
26 29 23	00-0022	EA 10 HP, 480 Volt Variable Frequency Drive	6,298.78		975.78
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-2,391.04		
26 29 23	00-0023	EA 15 HP, 480 Volt Variable Frequency Drive	8,440.08		1,479.32
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-3,014.79		
26 29 23	00-0024	EA 20 HP, 480 Volt Variable Frequency Drive	8,881.11		1,479.32
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-3,257.36		
26 29 23	00-0025	EA 25 HP, 480 Volt Variable Frequency Drive	10,676.05		1,951.56
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-3,725.17		
26 29 23	00-0026	EA 30 HP, 480 Volt Variable Frequency Drive	12,251.17		1,951.56
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-4,591.49		
26 29 23	00-0027	EA 40 HP, 480 Volt Variable Frequency Drive	13,889.30		1,951.56
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-5,492.46		
26 29 23	00-0028	EA 50 HP, 480 Volt Variable Frequency Drive	18,188.84		2,478.95
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-7,277.08		
26 29 23	00-0029	EA 60 HP, 480 Volt Variable Frequency Drive	24,276.91		2,939.72
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-10,118.60		
26 29 23	00-0030	EA 75 HP, 480 Volt Variable Frequency Drive	25,789.03		2,939.72
		<small>Note: Wall mounted.</small>			
		<i>For 6-Pulse Drive Package, Deduct</i>	-10,950.27		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,863.26 -12,821.52	3,275.76
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	31,501.39 -13,722.49	3,275.76
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	34,903.66 -15,593.74	3,275.76
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	40,291.47 -17,811.51	3,953.46
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	50,452.99 -23,206.25	4,129.90
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	59,176.18 -27,334.09	4,738.92
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	68,091.25 -31,796.67	5,139.50
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	78,934.06 -37,309.23	5,549.61
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	85,070.03 -40,168.78	6,017.95

26 30 Facility Electrical Power Generating and Storing Equipment

26 31 Photovoltaic Collectors (26 30)

26 31 00 00-0001 Rigid Photovoltaic Modules <small>(26 31)</small>		
26 31 00 00-0002 Sanyo Rigid Photovoltaic Modules <small>(26 31 00 00-0001)</small>		
26 31 00 00-0003 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	2,192.47 -158.62 -213.43 -317.24	116.32
26 31 00 00-0004 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	2,298.70 -166.59 -224.05 -333.17	116.32
26 31 00 00-0005 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	2,150.79 -155.49 -209.26 -310.99	116.32
26 31 00 00-0006 Sharp Rigid Photovoltaic Modules <small>(26 31 00 00-0001)</small>		
26 31 00 00-0007 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	1,714.10 -122.74 -165.59 -245.48	116.32
26 31 00 00-0008 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	1,951.23 -140.53 -189.31 -281.05	116.32
26 31 00 00-0009 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	1,988.79 -143.34 -193.06 -286.69	116.32
26 31 00 00-0010 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	1,871.40 -134.54 -181.32 -269.08	116.32
26 31 00 00-0011 BP Solar Rigid Photovoltaic Modules <small>(26 31 00 00-0001)</small> Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0012 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	840.60 -57.23 -78.24 -114.46	116.32
26 31 00 00-0013 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	1,040.17 -72.20 -98.20 -144.39	116.32

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 31 Photovoltaic Collectors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0014	EA		80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	1,119.99	116.32
			<i>For >25 To 50, Deduct</i>	-78.18	
			<i>For >50 To 100, Deduct</i>	-106.18	
			<i>For >100, Deduct</i>	-156.37	
26 31 00 00-0015			Photovoltaic Inverters <small>(26 31)</small>		
26 31 00 00-0016			Fronius Photovoltaic Inverters <small>(26 31 00 00-0015)</small>		
26 31 00 00-0017	EA		3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	5,236.53	122.44
26 31 00 00-0018	EA		5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	6,910.39	122.44
26 31 00 00-0019	EA		6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	7,294.96	122.44
26 31 00 00-0020	EA		7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	8,157.78	122.44
26 31 00 00-0021	EA		10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	12,923.52	122.44
26 31 00 00-0022	EA		12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	15,024.29	122.44
26 31 00 00-0023	EA		11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	12,223.71	244.89
26 31 00 00-0024	EA		11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	15,475.67	244.89
26 31 00 00-0025	EA		Inverter Display Stand (Fronius 4,045,894)	455.12	61.22
26 31 00 00-0026			SMA Photovoltaic Inverters <small>(26 31 00 00-0015)</small>		
26 31 00 00-0027	EA		4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	3,886.49	122.44
26 31 00 00-0028	EA		5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	4,667.04	122.44
26 31 00 00-0029	EA		6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	5,394.47	122.44
26 31 00 00-0030	EA		7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	5,949.80	122.44
26 31 00 00-0031	EA		8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	5,762.74	122.44
26 31 00 00-0032			PVPowered Photovoltaic Inverters <small>(26 31 00 00-0015)</small>		
26 31 00 00-0033	EA		120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	4,811.67	122.44
26 31 00 00-0034	EA		240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	5,032.78	122.44
26 31 00 00-0035	EA		240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	5,561.58	122.44
26 31 00 00-0036	EA		240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	6,593.82	153.05
26 31 00 00-0037	EA		208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	8,039.50	183.66
26 31 00 00-0038	EA		240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	8,106.82	183.66
26 31 00 00-0039	EA		240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	8,554.82	183.66
26 31 00 00-0040	EA		208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	102,087.13	979.56
26 31 00 00-0041	EA		480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	102,222.34	979.56
26 31 00 00-0042	EA		208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	110,620.26	979.56
26 31 00 00-0043	EA		480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	102,545.04	979.56
26 31 00 00-0044			Solectria Photovoltaic Inverters <small>(26 31 00 00-0015)</small>		
26 31 00 00-0045	EA		208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	16,048.17	244.89
26 31 00 00-0046	EA		208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	16,048.17	244.89
26 31 00 00-0047	EA		208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	16,518.05	244.89
26 31 00 00-0048	EA		480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	16,518.05	244.89
26 31 00 00-0049	EA		208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	50,285.09	734.67
26 31 00 00-0050	EA		480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	47,935.67	734.67
26 31 00 00-0051	EA		208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	54,983.93	734.67
26 31 00 00-0052	EA		480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	53,678.70	734.67
26 31 00 00-0053	EA		208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	58,377.54	734.67
26 31 00 00-0054	EA		480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	55,767.07	734.67
26 31 00 00-0055	EA		208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	61,477.79	979.56
26 31 00 00-0056	EA		480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	58,606.28	979.56
26 31 00 00-0057	EA		208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	63,827.21	979.56
26 31 00 00-0058	EA		480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	60,433.60	979.56
26 31 00 00-0059			Xantrex Photovoltaic Inverters <small>(26 31 00 00-0015)</small>		
26 31 00 00-0060	EA		0.6 KW Photovoltaic Inverter (Xantrex 806-1206).....	669.89	30.61
26 31 00 00-0061	EA		1 KW Photovoltaic Inverter (Xantrex 806-1210).....	730.34	30.61
26 31 00 00-0062	EA		2 KW Photovoltaic Inverter (Xantrex 806-1220).....	1,174.64	30.61
26 31 00 00-0063			Photovoltaic DC-DC Converters <small>(26 31)</small>		
26 31 00 00-0064	EA		15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20).....	392.35	45.92
			<i>Note: Hazardous locations.</i>		
26 31 00 00-0065	EA		20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	260.87	45.92
26 31 00 00-0066	EA		60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	730.43	45.92
26 31 00 00-0067			Photovoltaic Combiner Boxes <small>(26 31)</small>		
26 31 00 00-0068			Midnight Solar Photovoltaic Combiner Boxes <small>(26 31 00 00-0067)</small>		
26 31 00 00-0069	EA		3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3).....	466.58	122.44
26 31 00 00-0070	EA		6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6).....	454.41	122.44
26 31 00 00-0071	EA		12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12).....	723.61	183.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0072 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	727.87	183.66
26 31 00 00-0073 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	1,122.82	183.66
26 31 00 00-0074 SMA Photovoltaic Combiner Boxes <small>(26 31 00 00-0067)</small>		
26 31 00 00-0075 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	1,041.25	122.44
26 31 00 00-0076 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,248.74	122.44
26 31 00 00-0077 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,418.17	244.89
26 31 00 00-0078 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	5,577.32	244.89
26 31 00 00-0079 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	928.96	122.44
26 31 00 00-0080 Photovoltaic Charge Controller <small>(26 31)</small>		
26 31 00 00-0081 EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	312.52	45.92
26 31 00 00-0082 EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	418.17	45.92
26 31 00 00-0083 EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	488.61	45.92
26 31 00 00-0084 EA Remote Digital Meter For Xantrex C-35, 40 And 60	373.57	45.92
26 31 00 00-0085 EA MPPT Charge Controller (Xantrex XW SCC)	1,300.92	61.22
26 31 00 00-0086 Photovoltaic Batteries <small>(26 31)</small>		
26 31 00 00-0087 Concorde Photovoltaic Batteries <small>(26 31 00 00-0086)</small>		
26 31 00 00-0088 EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	290.05	18.37
26 31 00 00-0089 EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	365.63	24.49
26 31 00 00-0090 EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	396.34	24.49
26 31 00 00-0091 EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	453.45	36.73
26 31 00 00-0092 EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	516.78	36.73
26 31 00 00-0093 EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	613.46	42.86
26 31 00 00-0094 EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	703.57	48.98
26 31 00 00-0095 EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	695.36	48.98
26 31 00 00-0096 EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	1,277.37	58.16
26 31 00 00-0097 EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	1,477.70	61.22
26 31 00 00-0098 Deka Photovoltaic Batteries <small>(26 31 00 00-0086)</small>		
26 31 00 00-0099 EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1)	303.19	30.68
26 31 00 00-0100 EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	418.24	30.68
26 31 00 00-0101 EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24)	617.80	30.68
26 31 00 00-0102 EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27)	707.01	30.68
26 31 00 00-0103 EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31)	709.36	30.68
26 31 00 00-0104 EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D)	1,376.14	30.68
26 31 00 00-0105 EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D)	1,592.14	30.68
26 31 00 00-0106 Battery Enclosures <small>(26 31 00 00-0086)</small>		
26 31 00 00-0107 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	342.96	30.61
26 31 00 00-0108 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	1,688.40	30.68
26 31 00 00-0109 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	1,587.44	30.68
26 31 00 00-0110 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	2,115.69	30.68
26 31 00 00-0111 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	941.79	30.68
26 31 00 00-0112 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR27BP)	2,216.65	30.68
26 31 00 00-0113 Photovoltaic System Monitoring <small>(26 31)</small>		
26 31 00 00-0114 EA Solar Inverter Monitor (Xantrex 864-0203)	723.95	61.22
26 31 00 00-0115 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,503.36	30.61
26 31 00 00-0116 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	1,255.73	30.61
26 31 00 00-0117 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	229.84	30.61
26 31 00 00-0118 EA Wind Sensor Accessory For Sunny SensorBox (SMA)	569.18	61.22
26 31 00 00-0119 EA Sunny Boy Control with RS485 (SMA)	1,478.70	30.61
26 31 00 00-0120 EA RS 485 Module (SMA)	334.49	30.61
26 31 00 00-0121 EA RS 232 Module (SMA)	342.96	30.61
26 31 00 00-0122 EA Wireless Monitor with Bluetooth (SMA Sunny Beam)	642.96	30.61
26 31 00 00-0123 EA Bluetooth Piggy-Back Computer Card (SMA)	347.53	30.61
26 31 00 00-0124 EA RS485-N Communication Computer Card (SMA)	345.16	30.61
26 31 00 00-0125 EA Bluetooth Repeater (SMA)	653.95	30.61
26 31 00 00-0126 EA Sunny Boy PC Service Cable (SMA)	311.11	9.18
26 31 00 00-0127 EA Integrated Revenue Grade Meter, Option (PVPowered)	6,022.11	
26 31 00 00-0128 EA Data Monitoring Module (PVPowered PVM1010)	652.57	30.61
26 31 00 00-0129 EA Wireless IG Personal Display (Fronius 4,240,108)	653.27	
26 31 00 00-0130 EA DatCom Power Supply (Fronius 43,0001,2311)	213.48	
26 31 00 00-0131 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z)	387.51	30.61
26 31 00 00-0132 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z)	327.41	30.61
26 31 00 00-0133 EA Datalogger Pro Box (Fronius 4,240,102)	1,294.48	30.61
26 31 00 00-0134 EA Datalogger Easy Box (Fronius 4,240,103)	841.01	30.61
26 31 00 00-0135 EA Datalogger Interface Box (Fronius 4,240,105)	1,461.82	30.61
26 31 00 00-0136 EA Datalogger Web (Fronius 4,240,122)	2,514.08	30.61
26 31 00 00-0137 EA Interface Box (Fronius 4,240,109)	673.30	30.61
26 31 00 00-0138 EA Interface Card (Fronius 4,240,009,Z)	479.56	30.61

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0139	EA		Interface Card Easy (Fronius 4,240,013,Z).....	315.21	30.61
26 31 00 00-0140	EA		Sensor Box (Fronius 4,240,104).....	1,352.09	30.61
26 31 00 00-0141	EA		Ambient Temperature Sensor (Fronius 43,0001,1188).....	147.28	30.61
26 31 00 00-0142	EA		Irradiance Sensor (Fronius 43,0001,1188).....	467.63	30.61
26 31 00 00-0143	EA		Module Temperature Sensor (Fronius 43,0001,1190).....	521.15	30.61
26 31 00 00-0144	EA		Wind Speed Sensor (Fronius 42,0411,0027).....	271.36	61.22
26 31 00 00-0145 Photovoltaic System Accessories (26 31)					
26 31 00 00-0146	EA		Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	994.01	61.22
26 31 00 00-0147	EA		Line Communication Filter (Enphase LCF).....	2,167.74	122.44
26 31 00 00-0148	EA		15 Meter RS 485 Communication Cable (SMA).....	166.28	9.18
26 31 00 00-0149	EA		15 Meter RS 232 Communication Cable (SMA).....	250.80	9.18
26 31 00 00-0150	EA		24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	38.02	3.03
26 31 00 00-0151	EA		36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	40.86	3.03
26 31 00 00-0152	EA		48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	42.46	3.03
26 31 00 00-0153	EA		72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	46.90	3.03
26 31 00 00-0154	EA		120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	53.55	3.03
26 31 00 00-0155	EA		240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	84.93	6.06
26 31 00 00-0156	EA		360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	105.59	6.06
26 31 00 00-0157	EA		420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	138.48	9.09
26 31 00 00-0158	EA		36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	48.01	3.03
26 31 00 00-0159	EA		120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	66.87	3.03
26 31 00 00-0160	EA		240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	98.24	6.06
26 31 00 00-0161	EA		360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	131.52	6.06
26 31 00 00-0162	EA		600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	213.11	12.12
26 31 00 00-0163	EA		1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	222.51	12.12
26 31 00 00-0164	EA		Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	3,965.21	330.61
			Note: Tamper proof enclosure.		
26 31 00 00-0165 Photovoltaic Mounting Systems (26 31)					
26 31 00 00-0166	LF		Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	13.41	3.06
26 31 00 00-0167	EA		Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	37.97	15.31
26 31 00 00-0168	EA		Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	48.43	15.31
26 31 00 00-0169	EA		8" x 3/8" Hanger Bolt (UNIRAC 310046).....	25.72	6.12
			Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0170	EA		Mounting Rail Grounding Clip (UNIRAC 980006).....	12.10	4.60
			Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0171	EA		Mounting Rail Grounding Lugs (UNIRAC 980012).....	26.20	6.12
			Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0172	EA		Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	6.99	2.05
			Note: Four for each row of modules you plan to mount.		
26 31 00 00-0173	EA		Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	7.33	2.05
			Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0174	EA		Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	18.09	6.12
26 31 00 00-0175	EA		12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	108.22	30.61
			Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0176	EA		30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	120.06	30.61
			Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177	EA		44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	129.59	30.61
			Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178	EA		12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	158.88	45.92
			Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0179	EA		44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	194.38	45.92
			Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180	EA		72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	226.59	45.92
			Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181	EA		18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	248.66	61.22
			Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182	EA		64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	333.46	61.22
			Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183	EA		104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....	468.31	91.83
			Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0184	EA		Ballasted Photovoltaic Module Frame (UNIRAC 310351).....	228.57	
			Note: Excludes ballast.		
26 31 00 00-0185	EA		Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....	426.52	
			Note: Excludes ballast.		
26 31 00 00-0186	EA		3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	84.59	30.61
26 31 00 00-0187	EA		4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	85.67	30.61
26 31 00 00-0188	EA		6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	86.67	30.61
26 31 00 00-0189	EA		7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	89.16	30.61
26 31 00 00-0190	EA		3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	77.98	30.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0191 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	79.24	30.61
26 31 00 00-0192 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	82.91	30.61
26 31 00 00-0193 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	81.87	30.61
26 31 00 00-0194 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	163.48	45.92
26 31 00 00-0195 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	164.24	45.92
26 31 00 00-0196 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....	166.48	45.92
26 31 00 00-0197 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	164.14	45.92
26 31 00 00-0198 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	32.89	6.12
26 31 00 00-0199 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....	21.47	6.12
26 31 00 00-0200 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	40.98	9.18
26 31 00 00-0201 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	42.69	9.18
26 31 00 00-0202 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....	11.96	2.05
Note: Mid or end clamp.		
26 31 00 00-0203 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....	54.86	6.12
26 31 00 00-0204 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	2.77	

26 32 Packaged Generator Assemblies (26 30)

26 32 13 Engine Generators (26 32)

26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0768 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0747 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 20 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	33,793.87	1,065.25
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Single Phase, Add</i>		
.....		
26 32 13 13-0003 EA 25 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	35,542.21	1,125.17
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
.....		
26 32 13 13-0004 EA 30 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	37,313.10	1,188.42
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Single Phase, Add</i>		
.....		
26 32 13 13-0005 EA 35 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	38,070.81	1,311.58
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
.....		
26 32 13 13-0006 EA 40 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	38,841.97	1,438.08
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
.....		
26 32 13 13-0007 EA 50 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	45,585.68	1,651.14
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
.....		
26 32 13 13-0008 EA 60 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	49,120.74	1,897.48
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>		
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>		
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>		
.....		

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 32 Packaged Generator Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13	13-0009	EA	80 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	57,715.31 4,979.88 11,718.62 15,624.82 12,679.64 18,392.32 24,523.10	2,223.71
26 32 13	13-0010	EA	100 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	62,039.12 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	2,583.22
26 32 13	13-0011	EA	125 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	63,449.52 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	3,062.59
26 32 13	13-0012	EA	150 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	70,144.16 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	3,375.51
26 32 13	13-0013	EA	175 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	73,702.25 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	3,768.32
26 32 13	13-0014	EA	200 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	78,336.10 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	4,127.83
26 32 13	13-0015	EA	230 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	84,465.51 7,553.42 17,916.75 23,889.00 16,268.20 19,557.74 26,076.98	4,360.86
26 32 13	13-0016	EA	250 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	88,042.64 48,985.80 54,241.50 72,322.00 59,412.42 66,303.29 88,404.38	4,540.63
26 32 13	13-0017	EA	275 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	95,823.53 48,985.80 54,241.50 72,322.00 59,412.42 66,303.29 88,404.38	4,786.96
26 32 13	13-0018	EA	300 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	97,904.59 48,985.80 54,241.50 72,322.00 59,412.42 66,303.29 88,404.38	5,000.01
26 32 13	13-0019	EA	350 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	110,389.61 48,985.80 54,241.50 72,322.00 59,412.42 66,303.29 88,404.38	5,592.55
26 32 13	13-0020	EA	400 KW, 3 Phase, Standby Diesel Generator Set (Cummins) <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	118,850.07 48,985.80 54,241.50 72,322.00 59,412.42 66,303.29 88,404.38	6,125.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0021 EA 450 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	134,209.09	6,597.88
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,985.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	54,241.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	72,322.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	59,412.42	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	66,303.29	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	88,404.38	
26 32 13 13-0022 EA 500 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	141,163.75	7,030.64
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,985.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	54,241.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	72,322.00	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	59,412.42	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	66,303.29	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	88,404.38	
26 32 13 13-0023 EA 600 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	205,256.76	7,743.02
For Weather Resistant Steel Diesel Generator Enclosure, Add	100,069.00	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	120,506.46	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	160,675.28	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	117,700.64	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	140,388.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	187,184.28	
26 32 13 13-0024 EA 750 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	235,074.72	8,515.33
For Weather Resistant Steel Diesel Generator Enclosure, Add	100,069.00	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	120,506.46	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	160,675.28	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	117,700.64	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	140,388.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	187,184.28	
26 32 13 13-0025 EA 800 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	245,483.53	8,701.75
For Weather Resistant Steel Diesel Generator Enclosure, Add	100,069.00	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	120,506.46	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	160,675.28	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	117,700.64	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	140,388.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	187,184.28	
26 32 13 13-0026 EA 900 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	299,492.34	9,380.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	100,069.00	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	120,506.46	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	160,675.28	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	117,700.64	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	140,388.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	187,184.28	
26 32 13 13-0027 EA 1,000 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	334,541.67	9,986.70
For Weather Resistant Steel Diesel Generator Enclosure, Add	100,069.00	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	120,506.46	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	160,675.28	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	117,700.64	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	140,388.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	187,184.28	
26 32 13 13-0028 Diesel Particulate Filters (26 32 13 13)		
26 32 13 13-0029 EA Up To 50 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	36,156.80	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0030 EA >50 To 75 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	47,269.56	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0031 EA >75 To 100 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	57,275.51	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0032 EA >100 To 200 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	70,261.09	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0033 EA >200 To 500 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	82,590.12	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0034 EA >500 To 1,000 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	103,175.03	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)		
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins)(26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0747 for loadbank rental, 01 22 23 00-0768 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 32 Packaged Generator Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0002	EA		20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA).....	15,076.97	892.15
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	4,905.54	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	8,138.76	
26 32 13 19-0003	EA		25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB).....	17,036.66	1,065.25
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	4,905.54	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	8,138.76	
26 32 13 19-0004	EA		29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	19,668.94	1,185.09
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	4,905.54	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	8,138.76	
26 32 13 19-0005	EA		35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA).....	22,316.24	1,311.58
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	13,875.82	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0006	EA		40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB).....	25,048.21	1,438.08
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	13,875.82	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0007	EA		45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC).....	27,148.91	1,551.27
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	13,875.82	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0008	EA		60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	29,715.66	1,897.48
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	13,875.82	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0009	EA		70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	31,892.44	2,123.84
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	4,529.28	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	11,718.62	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	15,624.82	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	13,875.82	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0010	EA		85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	41,845.56	2,270.31
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	8,254.88	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	17,916.75	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	23,889.00	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	16,268.20	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0011	EA		100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	50,419.91	2,556.60
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	8,254.88	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	17,916.75	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	23,889.00	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	16,268.20	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0012	EA		125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA).....	57,750.12	3,062.59
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	8,254.88	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	17,916.75	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	23,889.00	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	16,268.20	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0013	EA		150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	68,632.11	3,375.51
			<i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i>	8,254.88	
			<i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	17,916.75	
			<i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i>	23,889.00	
			<i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	16,268.20	
			<i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,289.74	
26 32 13 19-0014	EA		175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	110,953.32	8,978.58
			<i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i>	44,052.38	
			<i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i>	48,764.56	
			<i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i>	65,019.42	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	48,165.88	
			<i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	72,277.86	
26 32 13 19-0015	EA		205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB).....	125,952.17	4,054.60
			<i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i>	44,052.38	
			<i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i>	48,764.56	
			<i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i>	65,019.42	
			<i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i>	48,165.88	
			<i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	72,277.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC).....	135,452.29	4,540.63
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	44,052.38	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	48,764.56	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	65,019.42	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	48,165.88	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	72,277.86	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA).....	175,143.46	5,000.01
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	44,052.38	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	48,764.56	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	65,019.42	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	48,165.88	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	72,277.86	
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....	188,009.25	5,592.55
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	44,052.38	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	48,764.56	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	65,019.42	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	48,165.88	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	72,277.86	
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA).....	264,091.37	6,597.88
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB).....	337,686.08	7,030.64
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC).....	377,844.75	7,410.13
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA).....	430,351.57	7,743.02
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB).....	449,976.56	8,035.96
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFCL).....	475,953.65	8,588.56
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	96,190.08	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	102,201.24	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	136,268.32	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	109,255.28	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	154,415.60	
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets <small>(26 32 13 19)</small>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set.....	5,102.87	565.67
Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.		
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set.....	6,439.53	628.53
Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.		
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set.....	7,428.99	691.37
Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.		
26 32 29 Rotary Converters <small>(26 32)</small>		
26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output <small>(26 32 29)</small>		
26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	9,830.71	244.89
26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	11,979.37	244.89
26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	15,876.63	244.89
26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	16,001.70	244.89
26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	17,759.63	306.11
26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	19,235.95	306.11
26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	20,143.81	306.11
26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	24,526.56	404.07
26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	27,263.53	404.07
26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output <small>(26 32 29)</small>		
26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	11,386.23	244.89
26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	13,582.02	244.89
26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	15,538.19	244.89
26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	15,969.96	244.89
26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion.....	18,086.29	306.11

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 32 Packaged Generator Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 29 00-0017	EA		20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,893.51	306.11
26 32 29 00-0018	EA		25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	20,551.07	306.11
26 32 29 00-0019	EA		40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	24,428.99	404.07
26 32 29 00-0020	EA		50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,918.04	404.07
26 32 29 00-0021			460 Volt 3 Phase AC Motor Drive 250 Volt DC <small>(26 32 29)</small>		
26 32 29 00-0022	EA		33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,241.02	4,660.46
26 32 29 00-0023	EA		40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	31,272.10	4,660.46
26 32 29 00-0024	EA		50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	35,543.75	6,657.81
26 32 29 00-0025	EA		65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	41,528.60	6,657.81
26 32 29 00-0026	EA		85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	47,178.66	6,657.81
26 32 29 00-0027	EA		100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	55,318.15	9,986.70
26 32 29 00-0028	EA		125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	66,961.80	9,986.70
26 32 29 00-0029			4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC <small>(26 32 29)</small>		
26 32 29 00-0030	EA		170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	98,293.02	13,315.60
26 32 29 00-0031	EA		200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	107,086.47	13,315.60
26 32 29 00-0032	EA		240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	128,854.77	17,310.28
26 32 29 00-0033	EA		320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	146,443.51	21,038.65
26 32 29 00-0034	EA		400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	173,578.46	21,038.65
26 32 29 00-0035	EA		560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	246,303.53	31,424.82
26 32 29 00-0036	EA		640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	254,658.04	31,424.82
26 32 29 00-0037	EA		800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	293,360.36	36,617.90
26 33 Battery Equipment <small>(26 30)</small>					
26 33 13 Batteries <small>(26 33)</small>					
26 33 13 00-0001			Standby Batteries <small>(26 33 13)</small>		
26 33 13 00-0002	EA		12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	1,204.16	30.68
26 33 13 00-0003	EA		12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	1,301.01	30.68
26 33 13 00-0004	EA		725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	397.15	30.68
26 33 13 00-0005	EA		810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	360.22	30.68
26 33 13 00-0006	EA		1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	623.54	30.68
26 33 13 00-0007	EA		1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	725.58	30.68
26 33 43 Battery Chargers <small>(26 33)</small>					
26 33 43 00-0001			Solid State Chargers, Single Phase <small>(26 33 43)</small>		
			Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002	EA		Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,400.38	699.29
26 33 43 00-0003	EA		Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,973.72	699.29
26 33 43 00-0004	EA		Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,375.15	699.29
26 33 43 00-0005	EA		Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,627.04	827.95
26 33 53 Static Uninterruptible Power Supply <small>(26 33)</small>					
26 33 53 00-0001			Single Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>		
26 33 53 00-0002			Single Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53 00-0001)</small>		
26 33 53 00-0003			120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small>		
			Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004	EA		0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120)	1,147.96	121.22
			Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005	EA		0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120)	1,370.96	141.42
			Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006	EA		1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120)	1,688.76	161.63
			Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007	EA		1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120)	2,061.68	181.83
			Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008	EA		2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120)	2,642.93	202.03
			Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009	EA		3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120)	4,249.71	242.44
			Note: Includes 4 minutes of battery backup at full load.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0010				208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011	EA			3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208) Note: Includes 4 minutes of battery backup at full load.	4,171.84	242.44
26 33 53 00-0012				120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small> Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013	EA			5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208) Note: Includes 5 minutes of battery backup at full load.	6,431.27	323.25
26 33 53 00-0014	EA			6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208) Note: Includes 4 minutes of battery backup at full load.	7,033.93	363.66
26 33 53 00-0015	EA			8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208) Note: Includes 7 minutes of battery backup at full load.	10,509.48	444.48
26 33 53 00-0016	EA			10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208) Note: Includes 4-1/2 minutes of battery backup at full load.	12,078.62	484.88
26 33 53 00-0017				230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018	EA			0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230) Note: Includes 11 minutes of battery backup at full load.	1,370.96	141.42
26 33 53 00-0019	EA			1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) Note: Includes 6 minutes of battery backup at full load.	1,688.76	161.63
26 33 53 00-0020	EA			1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230) Note: Includes 4 minutes of battery backup at full load.	2,084.68	181.83
26 33 53 00-0021	EA			2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) Note: Includes 4 minutes of battery backup at full load.	2,648.48	202.03
26 33 53 00-0022	EA			3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) Note: Includes 4 minutes of battery backup at full load.	4,266.99	242.44
26 33 53 00-0023	EA			5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) Note: Includes 9 minutes of battery backup at full load.	6,171.22	323.25
26 33 53 00-0024	EA			6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) Note: Includes 6 minutes of battery backup at full load.	7,574.59	363.66
26 33 53 00-0025	EA			10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230) Note: Includes 3 minutes of battery backup at full load.	11,706.87	484.88
26 33 53 00-0026				Optional Accessories For Single Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0001)</small>		
26 33 53 00-0027	EA			External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT) Note: Rack mount or tower configuration.	756.76	36.73
26 33 53 00-0028	EA			External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT) Note: Rack mount or tower configuration.	990.68	36.73
26 33 53 00-0029	EA			External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT) Note: Rack mount or tower configuration.	964.64	36.73
26 33 53 00-0030	EA			External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT) Note: Rack mount or tower configuration.	655.99	36.73
26 33 53 00-0031	EA			Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT) Note: Rack mount or tower configuration.	976.86	121.22
26 33 53 00-0032	EA			Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT) Note: Rack mount or tower configuration.	1,099.30	161.63
26 33 53 00-0033				Three Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>		
26 33 53 00-0034				208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery <small>(26 33 53 00-0033)</small> Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	41,842.62	484.88
26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	46,330.72	646.51
26 33 53 00-0037 EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	51,794.02	808.13
26 33 53 00-0038 EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	56,184.60	969.76
26 33 53 00-0039 EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	67,596.61	1,131.39
26 33 53 00-0040 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033) Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041 EA 60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,717.69	1,928.51
26 33 53 00-0042 EA 80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	99,765.03	2,387.68
26 33 53 00-0043 EA 100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	110,351.40	2,785.62
26 33 53 00-0044 EA 120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	136,221.31	3,152.96
26 33 53 00-0045 EA 140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	141,444.08	3,520.28
26 33 53 00-0046 EA 160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	147,027.64	3,887.62
26 33 53 00-0047 EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	153,781.44	4,254.96
26 33 53 00-0048 EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	160,535.25	4,622.29
26 33 53 00-0049 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033) Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050 EA 50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	85,613.74	1,591.78
26 33 53 00-0051 EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	110,936.52	2,797.86
26 33 53 00-0052 EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	151,589.66	3,232.54
26 33 53 00-0053 EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	178,532.29	3,550.89
26 33 53 00-0054 EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	208,790.59	3,918.23
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)		
26 33 53 00-0056 EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	676.46	61.22
26 33 53 00-0057 EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	1,086.87	61.22
26 33 53 00-0058 EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	2,092.94	122.44
26 33 53 00-0059 EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	6,524.66	489.78
26 33 53 00-0060 EA 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	636.47	61.22
26 33 53 00-0061 EA 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	347.13	61.22
26 33 53 00-0062 EA 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	389.35	61.22
26 33 53 00-0063 EA 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	431.57	61.22
26 33 53 00-0064 EA 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	507.57	61.22
26 33 53 00-0065 EA 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	532.90	61.22
26 33 53 00-0066 EA 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	663.78	61.22
26 33 53 00-0067 EA 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	695.45	61.22
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment (26 33 53)		
26 33 53 00-0069 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	6,235.38	111.88
26 33 53 00-0070 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	7,495.65	223.77
26 33 53 00-0071 EA 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	32.09	6.72
26 33 53 00-0072 EA 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	58.24	8.39
26 33 53 00-0073 EA 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	110.06	8.39
26 33 53 00-0074 EA 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	161.26	11.19
26 33 53 00-0075 EA 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	229.67	11.19
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	4,266.06	111.88
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	1,411.59	83.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 35 Power Filters and Conditioners (26 30)

26 35 33 Power Factor Correction Equipment (26 35)

26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)

26 35 33 16-0001 Power Factor Correction Capacitors <small>(26 35 33 16)</small>		
26 35 33 16-0002	EA Power Factor Correction Capacitors, 2.0 KVAC	911.11
26 35 33 16-0003	EA Power Factor Correction Capacitors, 3.0 KVAC	1,009.07
26 35 33 16-0004	EA Power Factor Correction Capacitors, 4.0 KVAC	1,107.04
26 35 33 16-0005	EA Power Factor Correction Capacitors, 5.0 KVAC	1,201.09
26 35 33 16-0006	EA Power Factor Correction Capacitors, 7.5 KVAC	1,475.40
26 35 33 16-0007	EA Power Factor Correction Capacitors, 10.0 KVAC	1,802.62
26 35 33 16-0008	EA Power Factor Correction Capacitors, 15.0 KVAC	2,784.26
26 35 33 16-0009	EA Power Factor Correction Capacitors, 20.0 KVAC	3,381.87
26 35 33 16-0010	EA Power Factor Correction Capacitors, 25.0 KVAC	4,369.39
26 35 33 16-0011	EA Power Factor Correction Capacitors, 30.0 KVAC	4,988.95
26 35 33 16-0012	EA Power Factor Correction Capacitors, 50.0 KVAC	8,719.18
26 35 33 16-0013	EA Power Factor Correction Capacitors, 75.0 KVAC	13,110.12
26 35 33 16-0014	EA Power Factor Correction Capacitors, 100.0 KVAC	17,481.47
26 35 33 16-0015	EA Power Factor Correction Capacitors, Fuse Kit.....	811.18

26 35 43 Static-Frequency Converters (26 35)

26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)

26 35 43 00-0002	EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	717.02	122.44
26 35 43 00-0003	EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,249.85	146.93
26 35 43 00-0004	EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,432.83	195.91
26 35 43 00-0005	EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,967.76	244.89
26 35 43 00-0006	EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,710.85	318.35
26 35 43 00-0007	EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,503.62	391.83
26 35 43 00-0008	EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,395.76	465.29
26 35 43 00-0009	EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,362.77	526.51
26 35 43 00-0010	EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,229.00	636.71
26 35 43 00-0011	EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,133.38	716.30
26 35 43 00-0012	EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,037.76	795.89
26 35 43 00-0013	EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	9,982.96	961.19
26 35 43 00-0014	EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	12,982.99	1,157.11
26 35 43 00-0015	EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	16,465.80	1,408.11
26 35 43 00-0016	EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	18,831.18	1,646.89
26 35 43 00-0017	EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	24,278.14	1,836.67
26 35 43 00-0018	EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	37,187.92	2,081.56
26 35 43 00-0019	EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	55,562.51	2,326.46

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)

<small>Note: For diesel motor generator sets mounted in switchgear cabinet.</small>			
26 35 53 00-0002	EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,272.47	1,946.87
26 35 53 00-0003	EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	8,285.60	2,448.90
26 35 53 00-0004	EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	9,218.51	2,914.18

26 36 Transfer Switches (26 30)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)

26 36 13 00-0002	EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,364.43	214.28
26 36 13 00-0003	EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,590.18	266.19

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

<small>(26 36 13)</small>			
26 36 13 00-0005	EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	3,945.28	314.26
	<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
	<i>For NEMA 12 Enclosure, Add</i>	1,228.43	
26 36 13 00-0006	EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	4,358.16	377.12
	<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
	<i>For NEMA 12 Enclosure, Add</i>	1,228.43	
26 36 13 00-0007	EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	4,941.39	439.96
	<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
	<i>For NEMA 12 Enclosure, Add</i>	1,228.43	
26 36 13 00-0008	EA 150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	6,154.90	502.82
	<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
	<i>For NEMA 12 Enclosure, Add</i>	1,228.43	
26 36 13 00-0009	EA 225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	7,643.76	565.67
	<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
	<i>For NEMA 12 Enclosure, Add</i>	1,228.43	

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 13 00-0010	EA		260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	8,597.23	628.53
			<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
			<i>For NEMA 12 Enclosure, Add</i>	1,228.43	
26 36 13 00-0011	EA		300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	9,566.21	691.37
			<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
			<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 13 00-0012	EA		400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	11,257.36	754.23
			<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
			<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 13 00-0013	EA		600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	14,913.20	942.78
			<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
			<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 13 00-0014	EA		800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	16,745.96	1,131.35
			<i>For NEMA 3R Enclosure, Add</i>	2,226.53	
			<i>For NEMA 12 Enclosure, Add</i>	2,149.77	
26 36 13 00-0015	EA		1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	22,295.15	1,597.87
			<i>For NEMA 3R Enclosure, Add</i>	2,226.53	
			<i>For NEMA 12 Enclosure, Add</i>	2,149.77	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001 Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003	EA		100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	3,493.41	439.96
			<i>For Level 2 Controller, Add</i>	202.54	
			<i>For Level 3 Controller, Add</i>	418.16	
			<i>For Level 4 Controller, Add</i>	607.63	
26 36 23 00-0004	EA		225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	4,767.49	565.67
			<i>For Level 2 Controller, Add</i>	281.80	
			<i>For Level 3 Controller, Add</i>	581.78	
			<i>For Level 4 Controller, Add</i>	845.40	
26 36 23 00-0005	EA		400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	7,644.45	754.23
			<i>For Level 2 Controller, Add</i>	475.54	
			<i>For Level 3 Controller, Add</i>	981.76	
			<i>For Level 4 Controller, Add</i>	1,426.62	
26 36 23 00-0006	EA		600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	12,562.24	942.78
			<i>For Level 2 Controller, Add</i>	827.44	
			<i>For Level 3 Controller, Add</i>	1,708.27	
			<i>For Level 4 Controller, Add</i>	2,482.33	

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001

26 36 23 00-0008	EA		40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	5,952.78	314.26
			<i>For Level 2 Controller, Add</i>	412.63	
			<i>For Level 3 Controller, Add</i>	851.88	
			<i>For Level 4 Controller, Add</i>	1,237.89	
			<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.99	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0009	EA		70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	6,865.41	377.12
			<i>For Level 2 Controller, Add</i>	473.62	
			<i>For Level 3 Controller, Add</i>	977.79	
			<i>For Level 4 Controller, Add</i>	1,420.85	
			<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.99	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0010	EA		100 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC100).....	7,199.96	408.54
			<i>For Level 2 Controller, Add</i>	494.67	
			<i>For Level 3 Controller, Add</i>	1,021.26	
			<i>For Level 4 Controller, Add</i>	1,484.02	
			<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.99	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0011	EA		125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	7,534.52	439.96
			<i>For Level 2 Controller, Add</i>	515.73	
			<i>For Level 3 Controller, Add</i>	1,064.73	
			<i>For Level 4 Controller, Add</i>	1,547.19	
			<i>For NEMA 3R Enclosure, Add</i>	1,305.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.99	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0012	EA		150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	8,973.69	502.82
			<i>For Level 2 Controller, Add</i>	617.52	
			<i>For Level 3 Controller, Add</i>	1,274.89	
			<i>For Level 4 Controller, Add</i>	1,852.57	
			<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
			<i>For NEMA 4 Enclosure, Add</i>	1,996.21	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0013 EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)	10,250.98	565.67
<i>For Level 2 Controller, Add</i>	706.77	
<i>For Level 3 Controller, Add</i>	1,459.14	
<i>For Level 4 Controller, Add</i>	2,120.31	
<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
<i>For NEMA 4 Enclosure, Add</i>	1,996.21	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0014 EA 260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)	11,310.03	628.53
<i>For Level 2 Controller, Add</i>	779.11	
<i>For Level 3 Controller, Add</i>	1,608.48	
<i>For Level 4 Controller, Add</i>	2,337.32	
<i>For NEMA 3R Enclosure, Add</i>	1,535.55	
<i>For NEMA 4 Enclosure, Add</i>	1,996.21	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0015 EA 300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)	11,800.36	691.37
<i>For Level 2 Controller, Add</i>	807.36	
<i>For Level 3 Controller, Add</i>	1,666.82	
<i>For Level 4 Controller, Add</i>	2,422.09	
<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
<i>For NEMA 4 Enclosure, Add</i>	2,149.77	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 23 00-0016 EA 400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)	13,359.17	754.23
<i>For Level 2 Controller, Add</i>	918.43	
<i>For Level 3 Controller, Add</i>	1,896.12	
<i>For Level 4 Controller, Add</i>	2,755.29	
<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
<i>For NEMA 4 Enclosure, Add</i>	2,149.77	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 23 00-0017 EA 600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)	18,353.83	942.78
<i>For Level 2 Controller, Add</i>	1,276.29	
<i>For Level 3 Controller, Add</i>	2,634.92	
<i>For Level 4 Controller, Add</i>	3,828.87	
<i>For NEMA 3R Enclosure, Add</i>	1,811.94	
<i>For NEMA 4 Enclosure, Add</i>	2,149.77	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 23 00-0018 EA 800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)	20,545.57	1,131.35
<i>For Level 2 Controller, Add</i>	1,416.92	
<i>For Level 3 Controller, Add</i>	2,925.26	
<i>For Level 4 Controller, Add</i>	4,250.77	
<i>For NEMA 3R Enclosure, Add</i>	2,226.53	
<i>For NEMA 4 Enclosure, Add</i>	2,456.89	
<i>For NEMA 12 Enclosure, Add</i>	2,149.77	
26 36 23 00-0019 EA 1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000)	26,736.69	1,597.87
<i>For Level 2 Controller, Add</i>	1,824.42	
<i>For Level 3 Controller, Add</i>	3,766.55	
<i>For Level 4 Controller, Add</i>	5,473.27	
<i>For NEMA 3R Enclosure, Add</i>	2,226.53	
<i>For NEMA 4 Enclosure, Add</i>	2,456.89	
<i>For NEMA 12 Enclosure, Add</i>	2,149.77	
26 36 23 00-0020 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200)	34,875.16	1,731.03
<i>For Level 2 Controller, Add</i>	2,434.52	
<i>For Level 3 Controller, Add</i>	5,026.10	
<i>For Level 4 Controller, Add</i>	7,303.55	
<i>For NEMA 3R Enclosure, Add</i>	4,913.75	
<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
<i>For NEMA 12 Enclosure, Add</i>	2,303.33	
26 36 23 00-0021 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600)	37,104.19	1,997.34
<i>For Level 2 Controller, Add</i>	2,565.99	
<i>For Level 3 Controller, Add</i>	5,297.52	
<i>For Level 4 Controller, Add</i>	7,697.96	
<i>For NEMA 3R Enclosure, Add</i>	7,984.83	
<i>For NEMA 4 Enclosure, Add</i>	9,827.47	
<i>For NEMA 12 Enclosure, Add</i>	7,984.83	
26 36 23 00-0022 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000)	42,434.27	2,263.66
<i>For Level 2 Controller, Add</i>	2,937.79	
<i>For Level 3 Controller, Add</i>	6,065.12	
<i>For Level 4 Controller, Add</i>	8,813.37	
<i>For NEMA 3R Enclosure, Add</i>	7,984.83	
<i>For NEMA 4 Enclosure, Add</i>	9,827.47	
<i>For NEMA 12 Enclosure, Add</i>	7,984.83	
26 36 23 00-0023 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000)	51,217.99	2,796.28
<i>For Level 2 Controller, Add</i>	3,535.97	
<i>For Level 3 Controller, Add</i>	7,300.07	
<i>For Level 4 Controller, Add</i>	10,607.91	
<i>For NEMA 3R Enclosure, Add</i>	7,984.83	
26 36 23 00-0024 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000)	89,678.16	3,328.90
<i>For Level 2 Controller, Add</i>	6,434.08	
<i>For Level 3 Controller, Add</i>	13,283.26	
<i>For Level 4 Controller, Add</i>	19,302.23	
<i>For NEMA 3R Enclosure, Add</i>	14,802.63	

26 36 23 00-0025 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0026	EA		150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	29,181.87	2,388.39
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,458.78	
			<i>For Level 2 Controller, Add</i>	1,891.39	
			<i>For Level 3 Controller, Add</i>	3,904.81	
			<i>For Level 4 Controller, Add</i>	5,674.18	
26 36 23 00-0027	EA		225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	30,449.97	2,514.09
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,458.78	
			<i>For Level 2 Controller, Add</i>	1,970.19	
			<i>For Level 3 Controller, Add</i>	4,067.48	
			<i>For Level 4 Controller, Add</i>	5,910.56	
26 36 23 00-0028	EA		260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	31,917.79	2,639.80
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,458.78	
			<i>For Level 2 Controller, Add</i>	2,064.46	
			<i>For Level 3 Controller, Add</i>	4,262.11	
			<i>For Level 4 Controller, Add</i>	6,193.38	
26 36 23 00-0029	EA		300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	35,772.37	2,702.66
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,458.78	
			<i>For Level 2 Controller, Add</i>	2,353.45	
			<i>For Level 3 Controller, Add</i>	4,858.73	
			<i>For Level 4 Controller, Add</i>	7,060.34	
26 36 23 00-0030	EA		400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	41,502.63	2,765.50
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,458.78	
			<i>For Level 2 Controller, Add</i>	2,787.80	
			<i>For Level 3 Controller, Add</i>	5,755.46	
			<i>For Level 4 Controller, Add</i>	8,363.40	
26 36 23 00-0031	EA		600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	50,094.80	2,891.21
			<i>For NEMA 3R Enclosure, Add</i>	2,687.21	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
			<i>For Level 2 Controller, Add</i>	3,434.21	
			<i>For Level 3 Controller, Add</i>	7,089.98	
			<i>For Level 4 Controller, Add</i>	10,302.63	
26 36 23 00-0032	EA		800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	55,329.05	3,016.91
			<i>For NEMA 3R Enclosure, Add</i>	2,763.98	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,689.11	
			<i>For Level 2 Controller, Add</i>	3,820.38	
			<i>For Level 3 Controller, Add</i>	7,887.24	
			<i>For Level 4 Controller, Add</i>	11,461.14	
26 36 23 00-0033	EA		1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	69,686.83	3,519.74
			<i>For NEMA 3R Enclosure, Add</i>	2,763.98	
			<i>For NEMA 4 Enclosure, Add</i>	2,763.98	
			<i>For NEMA 12 Enclosure, Add</i>	1,689.11	
			<i>For Level 2 Controller, Add</i>	4,855.17	
			<i>For Level 3 Controller, Add</i>	10,023.58	
			<i>For Level 4 Controller, Add</i>	14,565.51	
26 36 23 00-0034	EA		1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	91,857.39	3,994.68
			<i>For NEMA 3R Enclosure, Add</i>	12,284.33	
			<i>For NEMA 4 Enclosure, Add</i>	15,355.41	
			<i>For NEMA 12 Enclosure, Add</i>	12,284.33	
			<i>For Level 2 Controller, Add</i>	6,499.77	
			<i>For Level 3 Controller, Add</i>	13,418.88	
			<i>For Level 4 Controller, Add</i>	19,499.32	
26 36 23 00-0035	EA		1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	120,394.90	4,261.00
			<i>For NEMA 3R Enclosure, Add</i>	26,104.20	
			<i>For NEMA 4 Enclosure, Add</i>	26,104.20	
			<i>For NEMA 12 Enclosure, Add</i>	24,322.98	
			<i>For Level 2 Controller, Add</i>	8,670.15	
			<i>For Level 3 Controller, Add</i>	17,899.67	
			<i>For Level 4 Controller, Add</i>	26,010.45	
26 36 23 00-0036	EA		2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	136,807.51	4,660.46
			<i>For NEMA 3R Enclosure, Add</i>	26,104.20	
			<i>For NEMA 4 Enclosure, Add</i>	26,104.20	
			<i>For NEMA 12 Enclosure, Add</i>	24,322.98	
			<i>For Level 2 Controller, Add</i>	9,880.21	
			<i>For Level 3 Controller, Add</i>	20,397.85	
			<i>For Level 4 Controller, Add</i>	29,640.63	
26 36 23 00-0037	EA		3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	220,041.70	5,326.24
			<i>For NEMA 3R Enclosure, Add</i>	32,246.35	
			<i>For Level 2 Controller, Add</i>	16,227.66	
			<i>For Level 3 Controller, Add</i>	33,502.27	
			<i>For Level 4 Controller, Add</i>	48,682.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0038 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	237,370.01	5,992.02
<i>For NEMA 3R Enclosure, Add</i>	32,246.35	
<i>For Level 2 Controller, Add</i>	17,467.41	
<i>For Level 3 Controller, Add</i>	36,061.76	
<i>For Level 4 Controller, Add</i>	52,402.24	
26 36 23 00-0039 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0040 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	9,826.99	314.26
<i>For Level 2 Controller, Add</i>	712.88	
<i>For Level 3 Controller, Add</i>	1,471.75	
<i>For Level 4 Controller, Add</i>	2,138.64	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0041 EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	10,605.91	377.12
<i>For Level 2 Controller, Add</i>	763.51	
<i>For Level 3 Controller, Add</i>	1,576.27	
<i>For Level 4 Controller, Add</i>	2,290.52	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0042 EA 100 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE100).....	10,994.66	408.54
<i>For Level 2 Controller, Add</i>	788.76	
<i>For Level 3 Controller, Add</i>	1,628.41	
<i>For Level 4 Controller, Add</i>	2,366.29	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0043 EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	11,383.42	439.96
<i>For Level 2 Controller, Add</i>	814.02	
<i>For Level 3 Controller, Add</i>	1,680.56	
<i>For Level 4 Controller, Add</i>	2,442.06	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0044 EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	13,685.54	502.82
<i>For Level 2 Controller, Add</i>	982.69	
<i>For Level 3 Controller, Add</i>	2,028.78	
<i>For Level 4 Controller, Add</i>	2,948.08	
<i>For Four Pole Circuit Breaker, Add</i>	3,838.85	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0045 EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	17,871.30	565.67
<i>For Level 2 Controller, Add</i>	1,297.35	
<i>For Level 3 Controller, Add</i>	2,678.39	
<i>For Level 4 Controller, Add</i>	3,892.04	
<i>For Four Pole Circuit Breaker, Add</i>	3,838.85	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0046 EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	19,012.01	628.53
<i>For Level 2 Controller, Add</i>	1,376.01	
<i>For Level 3 Controller, Add</i>	2,840.79	
<i>For Level 4 Controller, Add</i>	4,128.03	
<i>For Four Pole Circuit Breaker, Add</i>	3,838.85	
<i>For NEMA 3R Enclosure, Add</i>	767.78	
<i>For NEMA 12 Enclosure, Add</i>	1,381.99	
26 36 23 00-0047 EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	19,750.12	691.37
<i>For Level 2 Controller, Add</i>	1,423.47	
<i>For Level 3 Controller, Add</i>	2,938.78	
<i>For Level 4 Controller, Add</i>	4,270.41	
<i>For Four Pole Circuit Breaker, Add</i>	5,220.84	
<i>For NEMA 3R Enclosure, Add</i>	1,996.21	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 23 00-0048 EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	22,366.17	754.23
<i>For Level 2 Controller, Add</i>	1,616.47	
<i>For Level 3 Controller, Add</i>	3,337.24	
<i>For Level 4 Controller, Add</i>	4,849.42	
<i>For Four Pole Circuit Breaker, Add</i>	5,220.84	
<i>For NEMA 3R Enclosure, Add</i>	1,996.21	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	
26 36 23 00-0049 EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	27,122.91	942.78
<i>For Level 2 Controller, Add</i>	1,955.89	
<i>For Level 3 Controller, Add</i>	4,037.97	
<i>For Level 4 Controller, Add</i>	5,867.68	
<i>For Four Pole Circuit Breaker, Add</i>	5,220.84	
<i>For NEMA 3R Enclosure, Add</i>	1,996.21	
<i>For NEMA 12 Enclosure, Add</i>	1,535.55	

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0050	EA		800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	28,170.12	1,131.35
			For Level 2 Controller, Add	2,007.83	
			For Level 3 Controller, Add	4,145.19	
			For Level 4 Controller, Add	6,023.48	
			For Four Pole Circuit Breaker, Add	7,447.38	
			For NEMA 3R Enclosure, Add	3,439.63	
			For NEMA 12 Enclosure, Add	2,149.77	
26 36 23 00-0051	EA		1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	33,325.12	1,597.87
			For Level 2 Controller, Add	2,335.03	
			For Level 3 Controller, Add	4,820.70	
			For Level 4 Controller, Add	7,005.08	
			For Four Pole Circuit Breaker, Add	7,447.38	
			For NEMA 3R Enclosure, Add	3,439.63	
			For NEMA 12 Enclosure, Add	2,149.77	
26 36 23 00-0052			Accessories ^(26 36 23)		
26 36 23 00-0053	EA		Auxiliary Contacts For Automatic Transfer Switch.....	356.25	
26 36 23 00-0054	EA		Battery Charger For Automatic Transfer Switch.....	2,917.54	
26 36 23 00-0055	EA		Elevator Relay Signal For Automatic Transfer Switch.....	1,059.53	

26 40 Electrical And Cathodic Protection ⁽²⁶⁾

26 43 Surge Protective Devices ^(26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits ^(26 43)

26 43 13 00-0001			25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert LPL		
26 43 13 00-0002	EA		120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	240.72	30.61
26 43 13 00-0003	EA		208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	258.93	30.61
26 43 13 00-0004	EA		240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	271.18	36.73
26 43 13 00-0005	EA		277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	223.27	24.49
26 43 13 00-0006	EA		480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	271.18	36.73
26 43 13 00-0007			50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert LPL		
26 43 13 00-0008	EA		120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	330.46	30.61
26 43 13 00-0009	EA		208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	353.12	36.73
26 43 13 00-0010	EA		208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	340.87	30.61
26 43 13 00-0011	EA		480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	353.12	36.73
26 43 13 00-0012			100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert LPL		
26 43 13 00-0013	EA		120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	398.10	30.61
26 43 13 00-0014	EA		208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	420.76	36.73
26 43 13 00-0015	EA		277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	370.25	24.49
26 43 13 00-0016	EA		480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	420.76	36.73
26 43 13 00-0017			100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert LPM		
26 43 13 00-0018	EA		120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	468.34	30.61
26 43 13 00-0019	EA		208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	528.71	36.73
26 43 13 00-0020	EA		277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	441.79	24.49
26 43 13 00-0021			160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert LPM		
26 43 13 00-0022	EA		208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	821.37	36.73
26 43 13 00-0023	EA		208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	809.12	30.61
26 43 13 00-0024	EA		480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	821.37	36.73
26 43 13 00-0025			250 kA, 500 Joule Transient Voltage Surge Suppression ^(26 43 13) Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026	EA		LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	7,942.96	61.22
26 43 13 00-0027	EA		Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	9,716.16	61.22
26 43 13 00-0028			Class 1310 Transient Voltage Surge Suppression ^(26 43 13) Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029			NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028) Note: Square D. EMA series.		



Electrical	26
Electrical And Cathodic Protection	26 40
Surge Protective Devices	26 43

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0030	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,835.00	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0031	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,232.05	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0032	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,168.23	214.28
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0033	EA		320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,194.83	244.89
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0034	EA		480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,119.12	336.73
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0035	EA		120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,999.76	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0036	EA		160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,413.05	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0037	EA		240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,447.86	214.28
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0038	EA		320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,557.98	244.89
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0039	EA		480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,679.52	336.73
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0040	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,999.76	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0041	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,413.05	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0042	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,447.80	214.28
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0043	EA		320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,557.98	244.89
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0044	EA		480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,679.52	336.73
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0045	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,164.54	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0046	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,596.37	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0047	EA		240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,729.79	214.28
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0048	EA		320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,923.53	244.89
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0049	EA		480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,242.19	336.73
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0050	EA		120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,355.98	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0051	EA		160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,786.70	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0052	EA		240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,024.49	214.28
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0053	EA		320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,306.41	244.89
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0054	EA		480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,035.05	336.73
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0055			NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series.		
26 43 13 00-0056	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,999.68	159.18
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0057	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,621.83	183.66
			<i>For Integral Disconnect, Add</i>	265.68	
			<i>For Surge Counter, Add</i>	203.04	

26 Electrical
26 40 Electrical And Cathodic Protection
26 43 Surge Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0058	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,293.44 265.68 203.04	214.28
26 43 13 00-0059	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,093.65 265.68 203.04	159.18
26 43 13 00-0060	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,761.06 265.68 203.04	183.66
26 43 13 00-0061	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,475.59 265.68 203.04	214.28
26 43 13 00-0062	EA		120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,093.65 265.68 203.04	159.18
26 43 13 00-0063	EA		160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,761.06 265.68 203.04	183.66
26 43 13 00-0064	EA		240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,475.59 265.68 203.04	214.28
26 43 13 00-0065	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,213.16 265.68 203.04	159.18
26 43 13 00-0066	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,910.73 265.68 203.04	183.66
26 43 13 00-0067	EA		240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,708.79 265.68 203.04	214.28
26 43 13 00-0068	EA		120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,338.47 265.68 203.04	159.18
26 43 13 00-0069	EA		160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,069.67 265.68 203.04	183.66
26 43 13 00-0070	EA		240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,953.59 265.68 203.04	214.28
26 43 13 00-0071			NEMA 4X Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small> Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,931.41 265.68 203.04	159.18
26 43 13 00-0073	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,328.47 265.68 203.04	183.66
26 43 13 00-0074	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,264.65 265.68 203.04	214.28
26 43 13 00-0075	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,096.17 265.68 203.04	159.18
26 43 13 00-0076	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,509.46 265.68 203.04	183.66
26 43 13 00-0077	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,544.27 265.68 203.04	214.28
26 43 13 00-0078	EA		120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,096.17 265.68 203.04	159.18
26 43 13 00-0079	EA		160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,509.46 265.68 203.04	183.66
26 43 13 00-0080	EA		240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,544.21 265.68 203.04	214.28
26 43 13 00-0081	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,260.96 265.68 203.04	159.18
26 43 13 00-0082	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,692.78 265.68 203.04	183.66
26 43 13 00-0083	EA		240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,826.20 265.68 203.04	214.28
26 43 13 00-0084	EA		120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,452.39 265.68 203.04	159.18
26 43 13 00-0085	EA		160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,883.11 265.68 203.04	183.66



Electrical	26	26
Electrical And Cathodic Protection	26 40	
Surge Protective Devices	26 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,120.90 265.68 203.04	214.28
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>		
Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,096.09 265.68 203.04	159.18
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,718.24 265.68 203.04	183.66
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,389.85 265.68 203.04	214.28
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,190.06 265.68 203.04	159.18
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,857.47 265.68 203.04	183.66
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,572.00 265.68 203.04	214.28
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,190.06 265.68 203.04	159.18
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,857.47 265.68 203.04	183.66
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,572.00 265.68 203.04	214.28
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,309.57 265.68 203.04	159.18
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,007.14 265.68 203.04	183.66
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,805.20 265.68 203.04	214.28
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,434.88 265.68 203.04	159.18
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,166.09 265.68 203.04	183.66
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,050.01 265.68 203.04	214.28

26 50 Lighting (26)

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting (26 50)

26 52 13 Emergency and Exit Lighting (26 52)

26 52 13 13 Emergency Lighting (26 52 13)

26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)

26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	247.17	30.61
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	169.02	30.61
<i>For Halogen Lamps, Add</i>	27.55	
<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	271.29	30.61
<i>For Halogen Lamps, Add</i>	27.55	
<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	317.59	30.61
<i>For Halogen Lamps, Add</i>	27.55	
<i>For Self-Diagnostics, Add</i>	87.50	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	476.71	30.61
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	541.30	30.61
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272).....	792.94	30.61
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0010 Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	167.74	18.37
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	168.90	18.37
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	172.81	18.37
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	172.17	18.37
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	148.19	18.37
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	100.56	18.37
26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	441.56	30.61
For Wireguard, Add	228.84	
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	369.30	30.61
For Wireguard, Add	228.84	
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	580.49	30.61
For Wireguard, Add	228.84	
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	616.94	30.61
For Wireguard, Add	228.84	
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	884.24	30.61
For Wireguard, Add	243.74	
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,395.59	30.61
For Wireguard, Add	243.74	
26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	128.01	18.37
For Wireguard, Add	184.68	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	132.56	18.37
For Wireguard, Add	184.68	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	128.65	18.37
For Wireguard, Add	184.68	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	129.39	18.37
For Wireguard, Add	184.68	
26 52 13 13-0031 EA 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	132.56	18.37
For Wireguard, Add	184.68	
26 52 13 13-0032 EA 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	155.59	18.37
For Wireguard, Add	184.68	
26 52 13 13-0033 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	435.75	30.61
For Wireguard, Add	222.50	
For Self-Diagnostics, Add	105.50	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0036	EA		36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	474.32	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0037	EA		54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	463.75	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0038	EA		54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	490.69	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0039	EA		100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	831.94	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0040	EA		18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	651.81	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041	EA		36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	731.05	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042	EA		54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	771.19	30.61
			<i>For Wireguard, Add</i>	222.50	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0043			Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
			Note: For use with fixtures that have remote capability.		
26 52 13 13-0044	EA		9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	110.58	18.37
26 52 13 13-0045	EA		12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	119.77	18.37
26 52 13 13-0046	EA		9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	110.69	18.37
26 52 13 13-0047	EA		12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	117.45	18.37
26 52 13 13-0048	EA		12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	100.08	18.37
26 52 13 13-0049			Outdoor Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0050			Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 13 13-0049)</small>		
			Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051	EA		10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	690.37	30.61
26 52 13 13-0052	EA		10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	825.08	30.61
26 52 13 13-0053			Recessed Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0054	EA		10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	753.20	30.61
			<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA		16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	587.54	61.22
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	243.74	
26 52 13 13-0056	EA		50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	848.61	61.22
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	243.74	
26 52 13 13-0057			Square Wraparound Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0058	EA		10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	341.43	30.61
26 52 13 16			Exit Signs <small>(26 52 13)</small>		
			Note: Excludes pendants.		
26 52 13 16-0001			LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	196.34	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-7.15	
			<i>For >100 To 250, Deduct</i>	-12.05	
			<i>For >250 To 500, Deduct</i>	-19.63	
			<i>For >500, Deduct</i>	-27.21	

26 Electrical

26 50 Lighting

26 52 Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	196.34	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-7.15	
			<i>For >100 To 250, Deduct</i>	-12.05	
			<i>For >250 To 500, Deduct</i>	-19.63	
			<i>For >500, Deduct</i>	-27.21	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6).....	276.27	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-9.14	
			<i>For >100 To 250, Deduct</i>	-16.05	
			<i>For >250 To 500, Deduct</i>	-27.63	
			<i>For >500, Deduct</i>	-39.20	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	276.27	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-9.14	
			<i>For >100 To 250, Deduct</i>	-16.05	
			<i>For >250 To 500, Deduct</i>	-27.63	
			<i>For >500, Deduct</i>	-39.20	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R).....	304.82	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-9.86	
			<i>For >100 To 250, Deduct</i>	-17.48	
			<i>For >250 To 500, Deduct</i>	-30.48	
			<i>For >500, Deduct</i>	-43.49	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R).....	346.48	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-10.90	
			<i>For >100 To 250, Deduct</i>	-19.56	
			<i>For >250 To 500, Deduct</i>	-34.65	
			<i>For >500, Deduct</i>	-49.73	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N).....	287.41	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-9.42	
			<i>For >100 To 250, Deduct</i>	-16.61	
			<i>For >250 To 500, Deduct</i>	-28.74	
			<i>For >500, Deduct</i>	-40.87	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N).....	317.65	44.76
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-10.18	
			<i>For >100 To 250, Deduct</i>	-18.12	
			<i>For >250 To 500, Deduct</i>	-31.77	
			<i>For >500, Deduct</i>	-45.41	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4).....	365.40	44.76
			Note: Includes two circular side mounted krypton emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-12.20	
			<i>For >100 To 250, Deduct</i>	-21.33	
			<i>For >250 To 500, Deduct</i>	-36.54	
			<i>For >500, Deduct</i>	-51.75	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6).....	309.63	44.76
			Note: Includes two circular side mounted LED emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-10.80	
			<i>For >100 To 250, Deduct</i>	-18.54	
			<i>For >250 To 500, Deduct</i>	-30.96	
			<i>For >500, Deduct</i>	-43.38	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	459.75	44.76
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-14.55	
			<i>For >100 To 250, Deduct</i>	-26.05	
			<i>For >250 To 500, Deduct</i>	-45.98	
			<i>For >500, Deduct</i>	-65.90	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	481.70	44.76
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-15.10	
			<i>For >100 To 250, Deduct</i>	-27.15	
			<i>For >250 To 500, Deduct</i>	-48.17	
			<i>For >500, Deduct</i>	-69.19	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	129.03	44.76
			<i>For >50 To 100, Deduct</i>	-5.46	
			<i>For >100 To 250, Deduct</i>	-8.69	
			<i>For >250 To 500, Deduct</i>	-12.90	
			<i>For >500, Deduct</i>	-17.12	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0015 EA 120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	129.54	44.76
For >50 To 100, Deduct	-5.48	
For >100 To 250, Deduct	-8.71	
For >250 To 500, Deduct	-12.95	
For >500, Deduct	-17.19	
26 52 13 16-0016 Edge-Lit LED Exit Signs (26 52 13 16)		
Note: Includes red LED lamps.		
26 52 13 16-0017 EA Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6).....	271.18	44.76
For Green LED Lamps, Add	40.00	
For >50 To 100, Deduct	-9.02	
For >100 To 250, Deduct	-15.80	
For >250 To 500, Deduct	-27.12	
For >500, Deduct	-38.44	
26 52 13 16-0018 EA Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6).....	274.07	44.76
For Green LED Lamps, Add	40.00	
For >50 To 100, Deduct	-9.09	
For >100 To 250, Deduct	-15.94	
For >250 To 500, Deduct	-27.41	
For >500, Deduct	-38.87	
26 52 13 16-0019 EA Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6).....	293.58	44.76
For Green LED Lamps, Add	40.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-9.58	
For >100 To 250, Deduct	-16.92	
For >250 To 500, Deduct	-29.36	
For >500, Deduct	-41.80	
26 52 13 16-0020 EA Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....	351.91	44.76
For Green LED Lamps, Add	40.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-11.04	
For >100 To 250, Deduct	-19.83	
For >250 To 500, Deduct	-35.19	
For >500, Deduct	-50.55	
26 52 13 16-0021 Self-Luminous Tritium Exit Signs (26 52 13 16)		
Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52 13 16-0022 EA 10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....	583.95	44.76
For >50 To 100, Deduct	-16.84	
For >100 To 250, Deduct	-31.44	
For >250 To 500, Deduct	-58.40	
For >500, Deduct	-85.36	
26 52 13 16-0023 EA 10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....	1,077.87	44.76
For >50 To 100, Deduct	-29.18	
For >100 To 250, Deduct	-56.13	
For >250 To 500, Deduct	-107.79	
For >500, Deduct	-159.44	
26 52 13 16-0024 EA 20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....	696.46	44.76
For >50 To 100, Deduct	-19.65	
For >100 To 250, Deduct	-37.06	
For >250 To 500, Deduct	-69.65	
For >500, Deduct	-102.23	
26 52 13 16-0025 EA 20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....	1,168.20	44.76
For >50 To 100, Deduct	-31.44	
For >100 To 250, Deduct	-60.65	
For >250 To 500, Deduct	-116.82	
For >500, Deduct	-172.99	
26 52 13 16-0026 EA 10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....	639.94	44.76
For >50 To 100, Deduct	-18.24	
For >100 To 250, Deduct	-34.23	
For >250 To 500, Deduct	-63.99	
For >500, Deduct	-93.75	
26 52 13 16-0027 EA 10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R).....	1,168.20	44.76
For >50 To 100, Deduct	-31.44	
For >100 To 250, Deduct	-60.65	
For >250 To 500, Deduct	-116.82	
For >500, Deduct	-172.99	
26 52 13 16-0028 EA 20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....	786.27	44.76
For >50 To 100, Deduct	-21.89	
For >100 To 250, Deduct	-41.55	
For >250 To 500, Deduct	-78.63	
For >500, Deduct	-115.70	
26 52 13 16-0029 EA 20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R).....	1,451.34	44.76
For >50 To 100, Deduct	-38.52	
For >100 To 250, Deduct	-74.80	
For >250 To 500, Deduct	-145.13	
For >500, Deduct	-215.46	

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 52 13 16-0030			Vandal-Resistant LED Exit Signs <small>(26 52 13 16)</small> Note: Includes red LED lamps.		
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277)	550.67	44.76
			<i>For >50 To 100, Deduct</i>	-16.00	
			<i>For >100 To 250, Deduct</i>	-29.77	
			<i>For >250 To 500, Deduct</i>	-55.07	
			<i>For >500, Deduct</i>	-80.36	
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N)	856.53	44.76
			<i>For >50 To 100, Deduct</i>	-23.65	
			<i>For >100 To 250, Deduct</i>	-45.06	
			<i>For >250 To 500, Deduct</i>	-85.65	
			<i>For >500, Deduct</i>	-126.24	
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X)	1,044.06	44.76
			<i>For >50 To 100, Deduct</i>	-28.34	
			<i>For >100 To 250, Deduct</i>	-54.44	
			<i>For >250 To 500, Deduct</i>	-104.41	
			<i>For >500, Deduct</i>	-154.37	

26 52 13 16-0034			Removal And Reinstallation Of Exit Light Fixture <small>(26 52 13 16)</small>		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures	91.83	
			Note: Includes storage and cleaning.		
			<i>For >50 To 100, Deduct</i>	-4.59	
			<i>For >100 To 250, Deduct</i>	-6.89	
			<i>For >250 To 500, Deduct</i>	-9.18	
			<i>For >500, Deduct</i>	-11.48	

26 52 13 16-0036			Exit Sign Accessories <small>(26 52 13 16)</small>		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1)	130.18	12.27
			<i>For >50 To 100, Deduct</i>	-3.87	
			<i>For >100 To 250, Deduct</i>	-7.12	
			<i>For >250 To 500, Deduct</i>	-13.02	
			<i>For >500, Deduct</i>	-18.91	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1)	75.51	12.27
			<i>For >50 To 100, Deduct</i>	-2.50	
			<i>For >100 To 250, Deduct</i>	-4.39	
			<i>For >250 To 500, Deduct</i>	-7.55	
			<i>For >500, Deduct</i>	-10.71	
26 52 13 16-0039	EA		Removal And Replacement Of Battery For Exit Signs	129.87	
			Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity		
			<i>For >50 To 100, Deduct</i>	-4.01	
			<i>For >100 To 250, Deduct</i>	-7.26	
			<i>For >250 To 500, Deduct</i>	-12.99	
			<i>For >500, Deduct</i>	-18.71	

26 55 Special Purpose Lighting (26 50)

26 55 13 Landscape Lighting (26 55)

26 55 13 00-0001			Bollards <small>(26 55 13)</small> Note: Excludes concrete base.		
26 55 13 00-0002			Aluminum Architectural Bollards <small>(26 55 13 00-0001)</small>		
26 55 13 00-0003			High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
26 55 13 00-0004			Square, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>		
26 55 13 00-0005	EA		24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.48	104.08
26 55 13 00-0006	EA		30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,599.73	110.20
26 55 13 00-0007	EA		36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,611.97	116.32
26 55 13 00-0008	EA		42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,491.02	122.44
26 55 13 00-0009	EA		24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.48	104.08
26 55 13 00-0010	EA		30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,599.73	110.20
26 55 13 00-0011	EA		36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,611.97	116.32
26 55 13 00-0012	EA		42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,491.02	122.44
26 55 13 00-0013	EA		24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.48	104.08
26 55 13 00-0014	EA		30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,599.73	110.20
26 55 13 00-0015	EA		36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,611.97	116.32
26 55 13 00-0016	EA		42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,491.02	122.44
26 55 13 00-0017	EA		24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.48	104.08
26 55 13 00-0018	EA		30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,599.73	110.20
26 55 13 00-0019	EA		36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,611.97	116.32
26 55 13 00-0020	EA		42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,491.02	122.44

26 55 13 00-0021			Round, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>		
26 55 13 00-0022	EA		24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,526.31	104.08
26 55 13 00-0023	EA		30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,538.56	110.20
26 55 13 00-0024	EA		36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,550.80	116.32
26 55 13 00-0025	EA		42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,429.30	122.44

26 Electrical
26 50 Lighting
 26 55 Special Purpose Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 55 13 00-0094	EA	24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,893.99	104.08
	26 55 13 00-0095	EA	30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,906.24	110.20
	26 55 13 00-0096	EA	36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,918.48	116.32
	26 55 13 00-0097	EA	42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,800.46	122.44
	26 55 13 00-0098	EA	24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,314.29	104.08
	26 55 13 00-0099	EA	30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,326.54	110.20
	26 55 13 00-0100	EA	36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,338.78	116.32
	26 55 13 00-0101	EA	42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,218.67	122.44
26 55 13 00-0102			Round, LED, Aluminum Architectural Bollards <small>(26 55 13 00-0092)</small>		
	26 55 13 00-0103	EA	24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,831.30	104.08
	26 55 13 00-0104	EA	30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,843.55	110.20
	26 55 13 00-0105	EA	36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,855.79	116.32
	26 55 13 00-0106	EA	42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,735.68	122.44
	26 55 13 00-0107	EA	24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,251.60	104.08
	26 55 13 00-0108	EA	30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,263.85	110.20
	26 55 13 00-0109	EA	36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,276.09	116.32
	26 55 13 00-0110	EA	42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,156.72	122.44
26 55 13 00-0111			Reinforced Concrete Bollards <small>(26 55 13 00-0001)</small>		
	26 55 13 00-0112	EA	48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,558.52	306.11
	26 55 13 00-0113	EA	58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	2,746.98	408.11
26 55 13 00-0114			Low Voltage <small>(26 55 13)</small>		
	26 55 13 00-0115	EA	Low Voltage Recessed Uplight.....	750.47	222.85
	26 55 13 00-0116	EA	Low Voltage Walkway.....	519.68	122.44
	26 55 13 00-0117	EA	Low Voltage Malibu - 5 Light Set	526.78	163.47
	26 55 13 00-0118	EA	Low Voltage Mushroom 24" Pier.....	449.73	122.44
26 55 13 00-0119			Recessed, Adjustable <small>(26 55 13)</small>		
	26 55 13 00-0120	EA	150 Watt Incandescent Recessed, Adjustable.....	856.45	195.91
	26 55 13 00-0121	EA	300 Watt Incandescent Recessed, Adjustable.....	931.39	195.91
26 55 13 00-0122			Recessed, Uplight <small>(26 55 13)</small>		
	26 55 13 00-0123	EA	50 Watt Incandescent Recessed Uplight	771.51	195.91
	26 55 13 00-0124	EA	150 Watt Incandescent Recessed Uplight	786.50	195.91
	26 55 13 00-0125	EA	300 Watt Incandescent Recessed Uplight	831.47	195.91
	26 55 13 00-0126	EA	500 Watt Quartz Recessed Uplight.....	826.47	195.91
	26 55 13 00-0127	EA	5 Watt, LED Recessed Uplight	1,159.06	195.91
	26 55 13 00-0128	EA	15 Watt, LED Recessed Uplight	1,276.16	195.91
26 55 13 00-0129			Recessed Wall Light <small>(26 55 13)</small>		
	26 55 13 00-0130	EA	100 Watt Incandescent Recessed Wall Light.....	404.77	122.44
	26 55 13 00-0131	EA	100 Watt Fluorescent Recessed Wall Light	389.78	122.44
	26 55 13 00-0132	EA	100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	621.71	163.47
26 55 13 00-0133			Step Lights <small>(26 55 13)</small>		
	26 55 13 00-0134	EA	Incandescent Step Light	330.75	97.95
	26 55 13 00-0135	EA	Fluorescent Step Light.....	380.77	97.95
	26 55 13 00-0136	EA	5 Watt, LED Step Light	636.97	97.95
	26 55 13 00-0137	EA	15 Watt, LED Step Light	761.88	97.95
26 55 13 00-0138			Tree Lights, Surface Adjustable <small>(26 55 13)</small>		
	26 55 13 00-0139	EA	50 Watt Incandescent Tree Lights	686.66	163.47
	26 55 13 00-0140	EA	100 Watt Incandescent Tree Lights	701.65	163.47
	26 55 13 00-0141	EA	150 Watt Incandescent Tree Lights	889.48	244.89
26 55 16 Walkway Lighting <small>(26 55)</small>					
26 55 16 00-0001			Incandescent Walkway <small>(26 55 16)</small>		
	26 55 16 00-0002	EA	Post Top 300 Watt Incandescent Walkway Fixture.....	404.75	113.87
26 55 16 00-0003			Metal Halide Walkway <small>(26 55 16)</small>		
	26 55 16 00-0004	EA	Post Top 100 Watt Metal Halide Walkway Fixture	622.98	179.02
	26 55 16 00-0005	EA	Post Top 150-175 Watt Metal Halide Walkway Fixture.....	659.05	185.51
	26 55 16 00-0006	EA	Post Top 250 Watt Metal Halide Walkway Fixture	709.42	192.60
	26 55 16 00-0007	EA	Post Top 400 Watt Metal Halide Walkway Fixture	760.07	208.15
	26 55 16 00-0008	EA	Round Luminaries 100 Watt Metal Halide Walkway Fixture	678.53	192.60
	26 55 16 00-0009	EA	Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	682.41	179.02



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	696.14	185.51
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	548.59	127.59
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	579.48	127.59
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	610.38	127.59
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	689.05	143.63
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture	522.78	114.61
26 55 16 00-0016 High Pressure Sodium Walkway <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	565.02	179.02
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	596.05	185.51
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	638.46	192.60
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	684.91	208.15
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	614.33	192.60
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	611.45	179.02
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	625.03	185.51
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture	484.39	127.59
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	508.53	127.59
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture	532.66	127.59
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture	601.19	143.63
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture	463.44	114.61
26 55 16 00-0029 Walkway, Adjustable <small>(26 55 16)</small>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture	586.05	163.47
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture	601.29	163.47
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture	1,028.34	244.89
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	488.77	122.44
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	509.09	122.44
26 55 16 00-0035 LED Walkway <small>(26 55 16)</small>		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) <small>(26 55 16 00-0035)</small>		
<small>Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	999.68	93.98
<i>For Multi-Level Drive Currents, Add</i>	267.03	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,032.10	93.98
<i>For Multi-Level Drive Currents, Add</i>	267.03	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,089.32	93.98
<i>For Multi-Level Drive Currents, Add</i>	267.03	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,133.19	93.98
<i>For Multi-Level Drive Currents, Add</i>	267.03	
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,301.93	120.84
<i>For Multi-Level Drive Currents, Add</i>	267.03	
26 55 16 00-0042 Wall Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)	4,472.95	
<small>Note: Type Fixture 17 as Post</small>		
26 55 16 00-0044 Pole Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27)	4,128.62	
26 55 16 00-0046 EA 12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12)	4,053.41	
<small>Note: Washers and nuts included</small>		
26 55 29 Underwater Lighting <small>(26 55)</small>		
26 55 29 00-0001 Underwater Lights <small>(26 55 29)</small>		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights	547.57	81.43
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights	607.52	81.43
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights	1,468.96	122.44
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights	572.55	81.43
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights	642.50	81.43
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent	1,641.06	183.66
26 55 53 Security Lighting <small>(26 55)</small>		
26 55 53 11 Security Flood Lighting <small>(26 55 53)</small>		
26 55 53 11-0001 Flood Lights (General Electric Powerflood®) <small>(26 55 53 11)</small>		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
<small>Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.</small>		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light	379.89	103.29

26 Electrical
26 50 Lighting
 26 55 Special Purpose Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 55 53 11-0005	EA	100 Watt High Pressure Sodium MPF Series GE Flood Light		383.35	103.29
26 55 53 11-0006	EA	150 Watt High Pressure Sodium MPF Series GE Flood Light		389.13	103.29
26 55 53 11-0007		Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)			
26 55 53 11-0008	EA	70 Watt Metal Halide MPF Series GE Flood Light		517.39	103.29
26 55 53 11-0009		P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)			
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.					
26 55 53 11-0010		High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)			
26 55 53 11-0011	EA	70 Watt High Pressure Sodium P-154 Series GE Flood Light		773.43	137.71
26 55 53 11-0012	EA	100 Watt High Pressure Sodium P-154 Series GE Flood Light		778.05	137.71
26 55 53 11-0013	EA	150 Watt High Pressure Sodium P-154 Series GE Flood Light		786.14	137.71
26 55 53 11-0014	EA	250 Watt High Pressure Sodium P-154 Series GE Flood Light		877.42	137.71
26 55 53 11-0015	EA	400 Watt High Pressure Sodium P-154 Series GE Flood Light		903.99	137.71
26 55 53 11-0016		Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)			
26 55 53 11-0017	EA	175 Watt Metal Halide P-154 Series GE Flood Light		765.34	137.71
26 55 53 11-0018	EA	250 Watt Metal Halide P-154 Series GE Flood Light		805.78	137.71
26 55 53 11-0019	EA	400 Watt Metal Halide P-154 Series GE Flood Light		826.58	137.71
26 55 53 11-0020		PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)			
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.					
26 55 53 11-0021		High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)			
26 55 53 11-0022	EA	70 Watt High Pressure Sodium PF-154 Series GE Flood Light		788.22	154.93
26 55 53 11-0023	EA	100 Watt High Pressure Sodium PF-154 Series GE Flood Light		793.99	154.93
26 55 53 11-0024	EA	150 Watt High Pressure Sodium PF-154 Series GE Flood Light		803.24	154.93
26 55 53 11-0025	EA	250 Watt High Pressure Sodium PF-154 Series GE Flood Light		893.36	154.93
26 55 53 11-0026	EA	400 Watt High Pressure Sodium PF-154 Series GE Flood Light		918.78	154.93
26 55 53 11-0027		Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)			
26 55 53 11-0028	EA	175 Watt Metal Halide PF-154 Series GE Flood Light		781.28	154.93
26 55 53 11-0029	EA	250 Watt Metal Halide PF-154 Series GE Flood Light		820.57	154.93
26 55 53 11-0030	EA	400 Watt Metal Halide PF-154 Series GE Flood Light		841.37	154.93
26 55 53 11-0031		PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)			
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.					
26 55 53 11-0032		High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)			
26 55 53 11-0033	EA	150 Watt High Pressure Sodium PF-400 Series GE Flood Light		1,060.90	154.93
26 55 53 11-0034	EA	200 Watt High Pressure Sodium PF-400 Series GE Flood Light		1,141.78	154.93
26 55 53 11-0035	EA	250 Watt High Pressure Sodium PF-400 Series GE Flood Light		1,136.01	154.93
26 55 53 11-0036	EA	400 Watt High Pressure Sodium PF-400 Series GE Flood Light		1,164.89	154.93
26 55 53 11-0037		Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)			
26 55 53 11-0038	EA	175 Watt Metal Halide PF-400 Series GE Flood Light		1,090.94	154.93
26 55 53 11-0039	EA	250 Watt Metal Halide PF-400 Series GE Flood Light		1,115.21	154.93
26 55 53 11-0040	EA	400 Watt Metal Halide PF-400 Series GE Flood Light		1,140.63	154.93
26 55 53 11-0041		PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001)			
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.					
26 55 53 11-0042		High Pressure Sodium PF-1000 Series GE Flood Lights (26 55 53 11-0041)			
26 55 53 11-0043	EA	750 Watt High Pressure Sodium PF-1000 Series GE Flood Light		1,440.81	172.14
26 55 53 11-0044	EA	1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light		1,440.81	172.14
26 55 53 11-0045		Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)			
26 55 53 11-0046	EA	1,000 Watt Metal Halide PF-1000 Series GE Flood Light		1,373.80	172.14
26 55 53 11-0047		HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001)			
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.					



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,171.83	154.93
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,193.78	154.93
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light	1,184.54	154.93
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light	201.74	34.43
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light	116.23	34.43
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light	169.38	34.43
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light	128.94	34.43
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light	324.43	103.29
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light	141.65	34.43
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light	237.77	103.29
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light	248.17	103.29
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light	105.83	34.43
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light	102.37	34.43
26 55 53 11-0064 Flood Lights (Lithonia Contour Series) <small>(26 55 53 11)</small>		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light	711.91	137.71
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light	778.63	137.71
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light	843.96	137.71
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light	925.49	137.71
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light	909.43	137.71
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light	883.54	137.71
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light	881.63	137.71
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light	918.83	137.71
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light	1,093.99	154.93
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light	1,116.25	154.93
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light	1,043.99	154.93
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light	1,043.99	154.93
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light	1,078.88	154.93
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,048.47	137.71
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,081.77	137.71
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,109.60	137.71
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light	1,037.33	137.71
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light	1,070.68	137.71



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 53 11-0093	TFA (Large Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
	Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094	High Pressure Sodium TFA Series Lithonia Flood Lights <small>(26 55 53 11-0093)</small>		
26 55 53 11-0095	EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	2,040.21	172.14
26 55 53 11-0096	Metal Halide TFA Series Lithonia Flood Lights <small>(26 55 53 11-0093)</small>		
26 55 53 11-0097	EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,567.56	172.14
26 55 53 11-0098	EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,734.37	172.14
26 55 53 11-0099	Accessories For Contour Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
26 55 53 11-0100	EA Wireguard For Contour Series Lithonia Flood Light.....	173.71	34.43
26 55 53 11-0101	EA Vandal Guard For Contour Series Lithonia Flood Light.....	337.43	34.43
26 55 53 11-0102	EA Upper Visor For Contour Series Lithonia Flood Light.....	142.81	34.43
26 55 53 11-0103	EA Full Visor For Contour Series Lithonia Flood Light.....	192.84	34.43
26 55 53 11-0104	EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	428.95	103.29
26 55 53 11-0105	EA Radius Wall Bracket For Contour Series Lithonia Flood Light.....	340.42	103.29
26 55 53 11-0106	EA Steel Angle Bracket For Contour Series Lithonia Flood Light.....	340.42	103.29
26 55 53 11-0107	EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	375.73	103.29
26 55 53 11-0108	EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	166.10	34.43
26 55 53 11-0109	EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	132.18	34.43
26 55 53 11-0110	Flood Lights (Eaton) <small>(26 55 53 11)</small>		
26 55 53 11-0111	EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	1,123.10	137.71
	For NEMA Photocontrol Option (Eaton OA/RA1016), Add	59.82	
	For >50 To 100, Deduct	-34.96	
	For >100 To 250, Deduct	-63.04	
	For >250 To 500, Deduct	-112.31	
	For >500, Deduct	-161.58	
26 55 53 11-0112	EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,397.25	151.65
	For >50 To 100, Deduct	-42.51	
	For >100 To 250, Deduct	-77.45	
	For >250 To 500, Deduct	-139.73	
	For >500, Deduct	-202.00	
26 55 53 11-0113	Flood Lights (Ruud) <small>(26 55 53 11)</small>		
26 55 53 11-0114	NS (Micro) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>		
	Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115	High Pressure Sodium NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0116	EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	467.70	103.29
26 55 53 11-0117	EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	467.70	103.29
26 55 53 11-0118	EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	467.70	103.29
26 55 53 11-0119	EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	467.70	103.29
26 55 53 11-0120	EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	467.70	103.29
26 55 53 11-0121	Metal Halide NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0122	EA 50 Watt Metal Halide NS Series Ruud Flood Light.....	532.41	103.29
26 55 53 11-0123	EA 70 Watt Metal Halide NS Series Ruud Flood Light.....	532.41	103.29
26 55 53 11-0124	EA 100 Watt Metal Halide NS Series Ruud Flood Light.....	532.41	103.29
26 55 53 11-0125	Compact Fluorescent NS Series Ruud Flood Lights <small>(26 55 53 11-0114)</small>		
26 55 53 11-0126	EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	400.69	103.29
26 55 53 11-0127	EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light.....	416.86	103.29
26 55 53 11-0128	EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light.....	421.48	103.29
26 55 53 11-0129	EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	426.11	103.29
26 55 53 11-0130	NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>		
	Note: The NSF is suited for large open areas and facade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131	High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>		
26 55 53 11-0132	EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	721.20	154.93
26 55 53 11-0133	EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	762.80	154.93
26 55 53 11-0134	EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	785.91	154.93
26 55 53 11-0135	Metal Halide NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	711.96	154.93
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	716.58	154.93
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	730.44	154.93
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	695.78	154.93
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	843.68	154.93
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	848.30	154.93
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,441.97	172.14
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	843.68	154.93
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	848.30	154.93
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	862.17	154.93
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,289.45	172.14
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	661.35	137.71
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	709.88	137.71
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	709.88	137.71
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	709.88	137.71
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	709.88	137.71
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	726.06	137.71
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	726.06	137.71
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	726.06	137.71
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	700.64	137.71
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	719.12	137.71
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	767.65	137.71
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	767.65	137.71
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	767.65	137.71
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	767.65	137.71
26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	783.83	137.71
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	783.83	137.71
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	783.83	137.71
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	758.41	137.71
26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	952.29	154.93
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	975.40	154.93
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,499.74	172.14
26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	901.45	154.93
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	906.07	154.93
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	919.94	154.93
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	1,347.22	172.14
26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0186			High Pressure Sodium CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0187	EA		400 High Pressure Sodium CN Series Ruud Flood Light.....	1,231.68	172.14
26 55 53 11-0188	EA		1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,472.01	172.14
26 55 53 11-0189			Metal Halide CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0190	EA		400 Watt Metal Halide CN Series Ruud Flood Light.....	1,176.21	172.14
26 55 53 11-0191	EA		1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,319.49	172.14
26 55 53 11-0192			PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>		
<small>Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.</small>					
26 55 53 11-0193			High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0194	EA		250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	984.64	154.93
26 55 53 11-0195	EA		400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,007.75	154.93
26 55 53 11-0196			Metal Halide PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0197	EA		175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	933.80	154.93
26 55 53 11-0198	EA		250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	938.42	154.93
26 55 53 11-0199	EA		400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	952.29	154.93
26 55 53 11-0200	EA		1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,379.57	172.14
26 55 53 11-0201			Accessories For Ruud Flood Lighting <small>(26 55 53 11-0113)</small>		
26 55 53 11-0202	EA		Wireguard For Rudd Flood Light.....	103.52	34.43
26 55 53 11-0203	EA		Deep Baffle (Full Visor) For Rudd Flood Light.....	165.92	34.43
26 55 53 11-0204	EA		Glare Guard (Upper Visor) For Rudd Flood Light.....	119.70	34.43
26 55 53 11-0205	EA		Vandal Shield For Rudd Flood Light.....	142.81	34.43
26 55 53 11-0206	EA		Pipe Mounting Bracket For Ruud Flood Light.....	285.14	103.29
26 55 53 11-0207	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	89.66	34.43
26 55 53 11-0208			Flood Lights (Lumark) <small>(26 55 53 11)</small>		
26 55 53 11-0209			QZ Wedge Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>		
<small>Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.</small>					
26 55 53 11-0210	EA		500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	253.83	103.29
26 55 53 11-0211			LQL Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>		
<small>Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.</small>					
26 55 53 11-0212	EA		1,500 Watt LQL Series Quartz Lumark Flood Light.....	322.00	103.29
26 55 53 11-0213			Flood Lights (Kim Lighting) <small>(26 55 53 11)</small>		
26 55 53 11-0214			MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small>		
<small>Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.</small>					
26 55 53 11-0215			LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0214)</small>		
26 55 53 11-0216	EA		5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	540.92	42.96
			<i>For >50 To 100, Deduct</i>	-15.67	
			<i>For >100 To 250, Deduct</i>	-29.19	
			<i>For >250 To 500, Deduct</i>	-54.09	
			<i>For >500, Deduct</i>	-78.99	
26 55 53 11-0217	EA		15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	669.17	42.96
			<i>For >50 To 100, Deduct</i>	-18.88	
			<i>For >100 To 250, Deduct</i>	-35.61	
			<i>For >250 To 500, Deduct</i>	-66.92	
			<i>For >500, Deduct</i>	-98.23	
26 55 53 11-0218			Scarab® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small>		
<small>Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.</small>					
26 55 53 11-0219			LED Scarab® Series Kim Lighting Accent Flood Lights <small>(26 55 53 11-0218)</small>		
<small>Note: Spot or narrow style accent flood lights.</small>					
26 55 53 11-0220	EA		6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	826.75	42.96
			<i>For >50 To 100, Deduct</i>	-22.82	
			<i>For >100 To 250, Deduct</i>	-43.49	
			<i>For >250 To 500, Deduct</i>	-82.68	
			<i>For >500, Deduct</i>	-121.86	
26 55 53 11-0221			Flood Lights (CREE® BetaLED®) <small>(26 55 53 11)</small>		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) ^(26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,293.37	124.08
For >50 To 100, Deduct	-38.54	
For >100 To 250, Deduct	-70.87	
For >250 To 500, Deduct	-129.34	
For >500, Deduct	-187.80	
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,417.78	130.98
For >50 To 100, Deduct	-41.99	
For >100 To 250, Deduct	-77.44	
For >250 To 500, Deduct	-141.78	
For >500, Deduct	-206.12	
26 55 53 11-0225 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) ^(26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226 EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,121.28	117.19
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-33.89	
For >100 To 250, Deduct	-61.92	
For >250 To 500, Deduct	-112.13	
For >500, Deduct	-162.33	
26 55 53 11-0227 EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,415.44	124.08
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-41.59	
For >100 To 250, Deduct	-76.98	
For >250 To 500, Deduct	-141.54	
For >500, Deduct	-206.11	
26 55 53 11-0228 EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,709.60	130.98
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-49.29	
For >100 To 250, Deduct	-92.03	
For >250 To 500, Deduct	-170.96	
For >500, Deduct	-249.89	
26 55 53 11-0229 EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,116.30	137.86
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-59.80	
For >100 To 250, Deduct	-112.71	
For >250 To 500, Deduct	-211.63	
For >500, Deduct	-310.55	
26 55 53 11-0230 EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,410.47	144.76
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-67.50	
For >100 To 250, Deduct	-127.76	
For >250 To 500, Deduct	-241.05	
For >500, Deduct	-354.33	
26 55 53 11-0231 EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,704.63	151.65
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-75.20	
For >100 To 250, Deduct	-142.81	
For >250 To 500, Deduct	-270.46	
For >500, Deduct	-398.11	
26 55 53 11-0232 EA 140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,088.43	158.54
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-85.14	
For >100 To 250, Deduct	-162.35	
For >250 To 500, Deduct	-308.84	
For >500, Deduct	-455.34	
26 55 53 11-0233 EA 160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,382.59	165.44
For 347-480 Volt, Add	107.78	
For >50 To 100, Deduct	-92.84	
For >100 To 250, Deduct	-177.40	
For >250 To 500, Deduct	-338.26	
For >500, Deduct	-499.12	
26 55 53 11-0234 Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) ^(26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0235	EA	120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,592.10	151.65
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Bird Spikes, Add</i>	50.61	
			<i>For 5,000K Color Temperature, Add</i>	56.24	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For 1,000mA Driver, Add</i>	188.96	
			<i>For >50 To 100, Deduct</i>	-72.39	
			<i>For >100 To 250, Deduct</i>	-137.19	
			<i>For >250 To 500, Deduct</i>	-259.21	
			<i>For >500, Deduct</i>	-381.23	
26 55 53	11-0236	EA	240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	4,408.92	186.12
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For 5,000K Color Temperature, Add</i>	56.24	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	75.31	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For 1,000mA Driver, Add</i>	188.96	
			<i>For 480 Volt, Add</i>	202.45	
			<i>For >50 To 100, Deduct</i>	-119.53	
			<i>For >100 To 250, Deduct</i>	-229.75	
			<i>For >250 To 500, Deduct</i>	-440.89	
			<i>For >500, Deduct</i>	-652.03	
26 55 53	11-0237		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,507.94	151.65
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	38.78	
			<i>For Rotated Optics, Back Light Shield, Add</i>	38.78	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-45.28	
			<i>For >100 To 250, Deduct</i>	-82.98	
			<i>For >250 To 500, Deduct</i>	-150.79	
			<i>For >500, Deduct</i>	-218.61	
26 55 53	11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,614.23	151.65
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	38.78	
			<i>For Rotated Optics, Back Light Shield, Add</i>	38.78	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	281.17	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-47.94	
			<i>For >100 To 250, Deduct</i>	-88.29	
			<i>For >250 To 500, Deduct</i>	-161.42	
			<i>For >500, Deduct</i>	-234.55	
26 55 53	11-0240	EA	223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL).....	2,072.89	186.12
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	46.95	
			<i>For Rotated Optics, Back Light Shield, Add</i>	46.95	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-61.13	
			<i>For >100 To 250, Deduct</i>	-112.95	
			<i>For >250 To 500, Deduct</i>	-207.29	
			<i>For >500, Deduct</i>	-301.63	
26 55 53	11-0241		Flood Lights (PlanLED) <small>(26 55 53 11)</small>		
26 55 53	11-0242		Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) <small>(26 55 53 11-0241)</small>		
26 55 53	11-0243	EA	6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050).....	662.21	124.08
			<i>For >50 To 100, Deduct</i>	-22.76	
			<i>For >100 To 250, Deduct</i>	-39.31	
			<i>For >250 To 500, Deduct</i>	-66.22	
			<i>For >500, Deduct</i>	-93.13	



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0244	EA		9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075).....	792.77	130.98
			<i>For >50 To 100, Deduct</i>	-26.37	
			<i>For >100 To 250, Deduct</i>	-46.19	
			<i>For >250 To 500, Deduct</i>	-79.28	
			<i>For >500, Deduct</i>	-112.37	
26 55 53 11-0245	EA		12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100).....	915.38	141.31
			<i>For >50 To 100, Deduct</i>	-29.95	
			<i>For >100 To 250, Deduct</i>	-52.83	
			<i>For >250 To 500, Deduct</i>	-91.54	
			<i>For >500, Deduct</i>	-130.24	
26 55 53 11-0246			Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)		
26 55 53 11-0247	EA		21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200).....	1,857.30	275.73
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For >50 To 100, Deduct</i>	-60.22	
			<i>For >100 To 250, Deduct</i>	-106.65	
			<i>For >250 To 500, Deduct</i>	-185.73	
			<i>For >500, Deduct</i>	-264.81	
26 55 53 11-0248	EA		42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400).....	2,887.10	275.73
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For >50 To 100, Deduct</i>	-85.96	
			<i>For >100 To 250, Deduct</i>	-158.14	
			<i>For >250 To 500, Deduct</i>	-288.71	
			<i>For >500, Deduct</i>	-419.28	
26 55 53 11-0249	EA		84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800).....	5,103.84	275.73
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For >50 To 100, Deduct</i>	-141.38	
			<i>For >100 To 250, Deduct</i>	-268.98	
			<i>For >250 To 500, Deduct</i>	-510.38	
			<i>For >500, Deduct</i>	-751.79	
26 55 53 11-0250			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0251)		
26 55 53 11-0251	EA		26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	1,647.30	179.23
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For 347-480 Volt, Add</i>	138.02	
			<i>For >50 To 100, Deduct</i>	-50.14	
			<i>For >100 To 250, Deduct</i>	-91.33	
			<i>For >250 To 500, Deduct</i>	-164.73	
			<i>For >500, Deduct</i>	-238.13	
26 55 53 11-0252	EA		39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	2,111.23	186.12
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For 347-480 Volt, Add</i>	111.45	
			<i>For >50 To 100, Deduct</i>	-62.09	
			<i>For >100 To 250, Deduct</i>	-114.87	
			<i>For >250 To 500, Deduct</i>	-211.12	
			<i>For >500, Deduct</i>	-307.38	
26 55 53 11-0253	EA		52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	2,696.19	193.01
			<i>For 0 To 10 Volt Dimming, Add</i>	91.72	
			<i>For 347-480 Volt, Add</i>	90.35	
			<i>For >50 To 100, Deduct</i>	-77.06	
			<i>For >100 To 250, Deduct</i>	-144.46	
			<i>For >250 To 500, Deduct</i>	-269.62	
			<i>For >500, Deduct</i>	-394.78	
26 55 68			Athletic Field Lighting (26 55)		
26 55 68 00-0001			Sports Lighting System (26 55 68)		
			Note: Musco.		
26 55 68 00-0002			Round Steel Tapered Poles (26 55 68 00-0001)		
			Note: With Internal wiring harness.		
26 55 68 00-0003	EA		20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	4,095.32	661.02
26 55 68 00-0004	EA		25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	4,927.56	798.74
26 55 68 00-0005	EA		30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	5,557.43	867.59
26 55 68 00-0006	EA		35' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	6,082.50	902.02
26 55 68 00-0007	EA		40' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	7,652.94	936.45
26 55 68 00-0008	EA		45' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	8,775.06	1,143.02
26 55 68 00-0009	EA		50' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	9,431.90	1,211.88
26 55 68 00-0010	EA		55' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	10,714.13	1,377.13
26 55 68 00-0011	EA		60' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	12,165.88	1,549.27
26 55 68 00-0012	EA		65' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	13,431.82	1,697.74
26 55 68 00-0013	EA		70' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	14,644.58	1,897.48
26 55 68 00-0014	EA		75' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	15,958.54	2,130.49
26 55 68 00-0015	EA		80' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	17,879.58	2,563.25
26 55 68 00-0016			Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017	EA		Two Light Bracket.....	728.31	68.86

26 Electrical
26 50 Lighting
 26 55 Special Purpose Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 55 68 00-0018	EA	Three Light Bracket	914.45	96.40
	26 55 68 00-0019	EA	Four Light Bracket	1,325.12	117.05
	26 55 68 00-0020	EA	Five Light Bracket	1,506.92	137.71
	26 55 68 00-0021	EA	Six Light Bracket.....	1,830.32	158.37
	26 55 68 00-0022	EA	Seven Light Bracket.....	2,095.92	179.03
	26 55 68 00-0023	EA	Eight Light Bracket.....	2,397.77	206.57
	26 55 68 00-0024	EA	Nine Light Bracket	2,710.59	227.23
26 55 68 00-0025			Light Fixtures <small>(26 55 68 00-0001)</small>		
	26 55 68 00-0026	EA	120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug <i>For 1,500 Watt Metal Halide Lamp, Add</i>	1,416.66 15.16	
26 55 68 00-0027			Electrical Component Enclosure <small>(26 55 68 00-0001)</small>		
			Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
	26 55 68 00-0028	EA	Electrical Component Enclosure For 2 Lights, Pole Mounted	1,016.16	79.59
	26 55 68 00-0029	EA	Electrical Component Enclosure For 3 Lights, Pole Mounted	1,524.65	122.44
	26 55 68 00-0030	EA	Electrical Component Enclosure For 4 Lights, Pole Mounted	1,749.51	153.05
	26 55 68 00-0031	EA	Electrical Component Enclosure For 5 Lights, Pole Mounted	2,262.49	171.42
	26 55 68 00-0032	EA	Electrical Component Enclosure For 6 Lights, Pole Mounted	2,544.48	183.66
26 55 68 00-0033			Accessories <small>(26 55 68 00-0001)</small>		
	26 55 68 00-0034	EA	Time Delay Kit (Musco®).....	1,025.84	245.49
	26 55 68 00-0035	EA	Remote Switch Box Push Button (Musco®)	2,095.59	245.49
	26 55 68 00-0036	EA	Push Button Strobe Kit (Musco®).....	2,523.49	245.49
	26 55 68 00-0037	EA	Additional Control-Link Unit (Musco®).....	12,170.38	736.45
	26 55 68 00-0038	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	1,314.64	122.44
	26 55 68 00-0039	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	1,559.53	244.89
26 56 Exterior Lighting <small>(26 50)</small>					
26 56 13 Lighting Poles and Standards <small>(26 56)</small>					
26 56 13 00-0001			Poles And Standards <small>(26 56 13)</small>		
			See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002			Roadway Light Poles <small>(26 56 13 00-0001)</small>		
			Note: Excludes lighting fixtures.		
26 56 13 00-0003			Steel Roadway Light Poles <small>(26 56 13 00-0002)</small>		
			Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004			Round Tapered, Steel Roadway Light Poles <small>(26 56 13 00-0003)</small>		
26 56 13 00-0005			Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0006			Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0005)</small>		
	26 56 13 00-0007	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,169.32	413.14
			<i>For Galvanized Finish, Add</i>	70.29	
			<i>For >10 To 20, Deduct</i>	-79.23	
			<i>For >20 To 40, Deduct</i>	-158.47	
			<i>For >40, Deduct</i>	-258.36	
	26 56 13 00-0008	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,175.10	413.14
			<i>For Galvanized Finish, Add</i>	70.46	
			<i>For >10 To 20, Deduct</i>	-79.38	
			<i>For >20 To 40, Deduct</i>	-158.76	
			<i>For >40, Deduct</i>	-258.79	
	26 56 13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,484.85	550.86
			<i>For Galvanized Finish, Add</i>	71.49	
			<i>For >10 To 20, Deduct</i>	-87.12	
			<i>For >20 To 40, Deduct</i>	-174.24	
			<i>For >40, Deduct</i>	-288.91	
	26 56 13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,554.49	550.86
			<i>For Galvanized Finish, Add</i>	73.58	
			<i>For >10 To 20, Deduct</i>	-88.86	
			<i>For >20 To 40, Deduct</i>	-177.72	
			<i>For >40, Deduct</i>	-294.13	
	26 56 13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,624.12	550.86
			<i>For Galvanized Finish, Add</i>	75.67	
			<i>For >10 To 20, Deduct</i>	-90.60	
			<i>For >20 To 40, Deduct</i>	-181.21	
			<i>For >40, Deduct</i>	-299.35	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0012	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,776.51	619.71
			<i>For Galvanized Finish, Add</i>	76.11	
			<i>For >10 To 20, Deduct</i>	-94.41	
			<i>For >20 To 40, Deduct</i>	-188.83	
			<i>For >40, Deduct</i>	-314.22	
26 56 13 00-0013	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,809.53	619.71
			<i>For Galvanized Finish, Add</i>	77.10	
			<i>For >10 To 20, Deduct</i>	-95.24	
			<i>For >20 To 40, Deduct</i>	-190.48	
			<i>For >40, Deduct</i>	-316.70	
26 56 13 00-0014	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,815.81	619.71
			<i>For Galvanized Finish, Add</i>	77.29	
			<i>For >10 To 20, Deduct</i>	-95.40	
			<i>For >20 To 40, Deduct</i>	-190.79	
			<i>For >40, Deduct</i>	-317.17	
26 56 13 00-0015	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,001.88	654.14
			<i>For Galvanized Finish, Add</i>	80.81	
			<i>For >10 To 20, Deduct</i>	-100.05	
			<i>For >20 To 40, Deduct</i>	-200.09	
			<i>For >40, Deduct</i>	-332.85	
26 56 13 00-0016	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,026.82	654.14
			<i>For Galvanized Finish, Add</i>	81.56	
			<i>For >10 To 20, Deduct</i>	-100.67	
			<i>For >20 To 40, Deduct</i>	-201.34	
			<i>For >40, Deduct</i>	-334.72	
26 56 13 00-0017	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,054.05	654.14
			<i>For Galvanized Finish, Add</i>	82.37	
			<i>For >10 To 20, Deduct</i>	-101.35	
			<i>For >20 To 40, Deduct</i>	-202.70	
			<i>For >40, Deduct</i>	-336.76	
26 56 13 00-0018	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,610.75	688.57
			<i>For Galvanized Finish, Add</i>	97.01	
			<i>For >10 To 20, Deduct</i>	-115.27	
			<i>For >20 To 40, Deduct</i>	-230.54	
			<i>For >40, Deduct</i>	-380.23	
26 56 13 00-0019	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,619.63	688.57
			<i>For Galvanized Finish, Add</i>	97.28	
			<i>For >10 To 20, Deduct</i>	-115.49	
			<i>For >20 To 40, Deduct</i>	-230.98	
			<i>For >40, Deduct</i>	-380.90	
26 56 13 00-0020	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,628.41	688.57
			<i>For Galvanized Finish, Add</i>	97.54	
			<i>For >10 To 20, Deduct</i>	-115.71	
			<i>For >20 To 40, Deduct</i>	-231.42	
			<i>For >40, Deduct</i>	-381.56	
26 56 13 00-0021			Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0022	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,939.04	482.00
			<i>For Galvanized Finish, Add</i>	89.25	
			<i>For >10 To 20, Deduct</i>	-98.48	
			<i>For >20 To 40, Deduct</i>	-196.95	
			<i>For >40, Deduct</i>	-319.53	
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,010.68	499.21
			<i>For Galvanized Finish, Add</i>	90.37	
			<i>For >10 To 20, Deduct</i>	-100.27	
			<i>For >20 To 40, Deduct</i>	-200.53	
			<i>For >40, Deduct</i>	-325.76	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,073.14	516.43
			<i>For Galvanized Finish, Add</i>	91.21	
			<i>For >10 To 20, Deduct</i>	-101.83	
			<i>For >20 To 40, Deduct</i>	-203.66	
			<i>For >40, Deduct</i>	-331.31	
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,973.24	619.71
			<i>For Galvanized Finish, Add</i>	82.01	
			<i>For >10 To 20, Deduct</i>	-99.33	
			<i>For >20 To 40, Deduct</i>	-198.66	
			<i>For >40, Deduct</i>	-328.98	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,022.44	636.93
		<i>For Galvanized Finish, Add</i>	82.46	
		<i>For >10 To 20, Deduct</i>	-100.56	
		<i>For >20 To 40, Deduct</i>	-201.12	
		<i>For >40, Deduct</i>	-333.53	
26 56 13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,062.83	654.14
		<i>For Galvanized Finish, Add</i>	82.64	
		<i>For >10 To 20, Deduct</i>	-101.57	
		<i>For >20 To 40, Deduct</i>	-203.14	
		<i>For >40, Deduct</i>	-337.42	
26 56 13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,293.31	688.57
		<i>For Galvanized Finish, Add</i>	87.49	
		<i>For >10 To 20, Deduct</i>	-107.33	
		<i>For >20 To 40, Deduct</i>	-214.67	
		<i>For >40, Deduct</i>	-356.43	
26 56 13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,336.72	705.78
		<i>For Galvanized Finish, Add</i>	87.75	
		<i>For >10 To 20, Deduct</i>	-108.42	
		<i>For >20 To 40, Deduct</i>	-216.84	
		<i>For >40, Deduct</i>	-360.54	
26 56 13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,376.83	723.00
		<i>For Galvanized Finish, Add</i>	87.93	
		<i>For >10 To 20, Deduct</i>	-109.42	
		<i>For >20 To 40, Deduct</i>	-218.84	
		<i>For >40, Deduct</i>	-364.41	
26 56 13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,553.21	723.00
		<i>For Galvanized Finish, Add</i>	93.22	
		<i>For >10 To 20, Deduct</i>	-113.83	
		<i>For >20 To 40, Deduct</i>	-227.66	
		<i>For >40, Deduct</i>	-377.64	
26 56 13 00-0032	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,626.25	740.21
		<i>For Galvanized Finish, Add</i>	94.37	
		<i>For >10 To 20, Deduct</i>	-115.66	
		<i>For >20 To 40, Deduct</i>	-231.31	
		<i>For >40, Deduct</i>	-383.98	
26 56 13 00-0033	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,697.30	757.43
		<i>For Galvanized Finish, Add</i>	95.47	
		<i>For >10 To 20, Deduct</i>	-117.43	
		<i>For >20 To 40, Deduct</i>	-234.87	
		<i>For >40, Deduct</i>	-390.17	
26 56 13 00-0034	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,127.77	757.43
		<i>For Galvanized Finish, Add</i>	108.39	
		<i>For >10 To 20, Deduct</i>	-128.19	
		<i>For >20 To 40, Deduct</i>	-256.39	
		<i>For >40, Deduct</i>	-422.45	
26 56 13 00-0035	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,167.98	774.64
		<i>For Galvanized Finish, Add</i>	108.56	
		<i>For >10 To 20, Deduct</i>	-129.20	
		<i>For >20 To 40, Deduct</i>	-258.40	
		<i>For >40, Deduct</i>	-426.33	
26 56 13 00-0036	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,208.40	791.86
		<i>For Galvanized Finish, Add</i>	108.74	
		<i>For >10 To 20, Deduct</i>	-130.21	
		<i>For >20 To 40, Deduct</i>	-260.42	
		<i>For >40, Deduct</i>	-430.22	
26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0005)</small>				
26 56 13 00-0038	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,657.84	688.57
		<i>For Galvanized Finish, Add</i>	98.42	
		<i>For >10 To 20, Deduct</i>	-116.45	
		<i>For >20 To 40, Deduct</i>	-232.89	
		<i>For >40, Deduct</i>	-383.77	
26 56 13 00-0039	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,732.59	723.00
		<i>For Galvanized Finish, Add</i>	98.60	
		<i>For >10 To 20, Deduct</i>	-118.31	
		<i>For >20 To 40, Deduct</i>	-236.63	
		<i>For >40, Deduct</i>	-391.09	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,816.11	757.43
			<i>For Galvanized Finish, Add</i>	99.04	
			<i>For >10 To 20, Deduct</i>	-120.40	
			<i>For >20 To 40, Deduct</i>	-240.81	
			<i>For >40, Deduct</i>	-399.08	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,942.61	757.43
			<i>For Galvanized Finish, Add</i>	102.83	
			<i>For >10 To 20, Deduct</i>	-123.57	
			<i>For >20 To 40, Deduct</i>	-247.13	
			<i>For >40, Deduct</i>	-408.57	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,020.14	791.86
			<i>For Galvanized Finish, Add</i>	103.09	
			<i>For >10 To 20, Deduct</i>	-125.50	
			<i>For >20 To 40, Deduct</i>	-251.01	
			<i>For >40, Deduct</i>	-416.10	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,094.89	826.28
			<i>For Galvanized Finish, Add</i>	103.27	
			<i>For >10 To 20, Deduct</i>	-127.37	
			<i>For >20 To 40, Deduct</i>	-254.74	
			<i>For >40, Deduct</i>	-423.43	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,252.29	791.86
			<i>For Galvanized Finish, Add</i>	110.06	
			<i>For >10 To 20, Deduct</i>	-131.31	
			<i>For >20 To 40, Deduct</i>	-262.61	
			<i>For >40, Deduct</i>	-433.51	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,327.04	826.28
			<i>For Galvanized Finish, Add</i>	110.23	
			<i>For >10 To 20, Deduct</i>	-133.18	
			<i>For >20 To 40, Deduct</i>	-266.35	
			<i>For >40, Deduct</i>	-440.84	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,401.78	860.71
			<i>For Galvanized Finish, Add</i>	110.41	
			<i>For >10 To 20, Deduct</i>	-135.04	
			<i>For >20 To 40, Deduct</i>	-270.09	
			<i>For >40, Deduct</i>	-448.17	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,644.78	826.28
			<i>For Galvanized Finish, Add</i>	119.77	
			<i>For >10 To 20, Deduct</i>	-141.12	
			<i>For >20 To 40, Deduct</i>	-282.24	
			<i>For >40, Deduct</i>	-464.67	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,719.23	860.71
			<i>For Galvanized Finish, Add</i>	119.93	
			<i>For >10 To 20, Deduct</i>	-142.98	
			<i>For >20 To 40, Deduct</i>	-285.96	
			<i>For >40, Deduct</i>	-471.98	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,799.85	895.14
			<i>For Galvanized Finish, Add</i>	120.29	
			<i>For >10 To 20, Deduct</i>	-145.00	
			<i>For >20 To 40, Deduct</i>	-289.99	
			<i>For >40, Deduct</i>	-479.75	
26 56 13 00-0050			Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,177.76	757.43
			<i>For Galvanized Finish, Add</i>	109.89	
			<i>For >10 To 20, Deduct</i>	-129.44	
			<i>For >20 To 40, Deduct</i>	-258.89	
			<i>For >40, Deduct</i>	-426.20	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,289.81	809.07
			<i>For Galvanized Finish, Add</i>	110.15	
			<i>For >10 To 20, Deduct</i>	-132.25	
			<i>For >20 To 40, Deduct</i>	-264.49	
			<i>For >40, Deduct</i>	-437.19	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	5,398.89	860.71
			<i>For Galvanized Finish, Add</i>	110.32	
			<i>For >10 To 20, Deduct</i>	-134.97	
			<i>For >20 To 40, Deduct</i>	-269.94	
			<i>For >40, Deduct</i>	-447.95	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,498.53	826.28
			<i>For Galvanized Finish, Add</i>	115.38	
			<i>For >10 To 20, Deduct</i>	-137.46	
			<i>For >20 To 40, Deduct</i>	-274.93	
			<i>For >40, Deduct</i>	-453.70	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,608.01	877.93
			<i>For Galvanized Finish, Add</i>	115.56	
			<i>For >10 To 20, Deduct</i>	-140.20	
			<i>For >20 To 40, Deduct</i>	-280.40	
			<i>For >40, Deduct</i>	-464.50	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,683.55	929.57
			<i>For Galvanized Finish, Add</i>	114.73	
			<i>For >10 To 20, Deduct</i>	-142.09	
			<i>For >20 To 40, Deduct</i>	-284.18	
			<i>For >40, Deduct</i>	-472.74	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,901.50	860.71
			<i>For Galvanized Finish, Add</i>	125.40	
			<i>For >10 To 20, Deduct</i>	-147.54	
			<i>For >20 To 40, Deduct</i>	-295.08	
			<i>For >40, Deduct</i>	-485.65	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,050.67	912.36
			<i>For Galvanized Finish, Add</i>	126.78	
			<i>For >10 To 20, Deduct</i>	-151.27	
			<i>For >20 To 40, Deduct</i>	-302.53	
			<i>For >40, Deduct</i>	-499.42	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,122.93	964.00
			<i>For Galvanized Finish, Add</i>	125.85	
			<i>For >10 To 20, Deduct</i>	-153.07	
			<i>For >20 To 40, Deduct</i>	-306.15	
			<i>For >40, Deduct</i>	-507.42	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,161.49	895.14
			<i>For Galvanized Finish, Add</i>	131.14	
			<i>For >10 To 20, Deduct</i>	-154.04	
			<i>For >20 To 40, Deduct</i>	-308.07	
			<i>For >40, Deduct</i>	-506.87	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,270.57	946.78
			<i>For Galvanized Finish, Add</i>	131.31	
			<i>For >10 To 20, Deduct</i>	-156.76	
			<i>For >20 To 40, Deduct</i>	-313.53	
			<i>For >40, Deduct</i>	-517.63	
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,382.64	998.43
			<i>For Galvanized Finish, Add</i>	131.57	
			<i>For >10 To 20, Deduct</i>	-159.57	
			<i>For >20 To 40, Deduct</i>	-319.13	
			<i>For >40, Deduct</i>	-528.62	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,700.34	550.86
			<i>For Galvanized Finish, Add</i>	77.96	
			<i>For >10 To 20, Deduct</i>	-92.51	
			<i>For >20 To 40, Deduct</i>	-185.02	
			<i>For >40, Deduct</i>	-305.07	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,186.34	619.71
			<i>For Galvanized Finish, Add</i>	88.41	
			<i>For >10 To 20, Deduct</i>	-104.66	
			<i>For >20 To 40, Deduct</i>	-209.32	
			<i>For >40, Deduct</i>	-344.96	
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,303.66	654.14
			<i>For Galvanized Finish, Add</i>	89.86	
			<i>For >10 To 20, Deduct</i>	-107.59	
			<i>For >20 To 40, Deduct</i>	-215.18	
			<i>For >40, Deduct</i>	-355.48	
26 56 13 00-0068	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,116.35	688.57
			<i>For Galvanized Finish, Add</i>	112.18	
			<i>For >10 To 20, Deduct</i>	-127.91	
			<i>For >20 To 40, Deduct</i>	-255.82	
			<i>For >40, Deduct</i>	-418.15	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0069 Round Tapered, Steel Roadway Light Poles With Truss Style Arms ^(26 56 13 00-0004)		
26 56 13 00-0070 Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm ^(26 56 13 00-0009)		
26 56 13 00-0071 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,740.57	550.86
For Galvanized Finish, Add	109.17	
For >10 To 20, Deduct	-118.51	
For >20 To 40, Deduct	-237.03	
For >40, Deduct	-383.09	
26 56 13 00-0072 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,785.17	550.86
For Galvanized Finish, Add	110.50	
For >10 To 20, Deduct	-119.63	
For >20 To 40, Deduct	-239.26	
For >40, Deduct	-386.43	
26 56 13 00-0073 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,805.52	550.86
For Galvanized Finish, Add	111.11	
For >10 To 20, Deduct	-120.14	
For >20 To 40, Deduct	-240.28	
For >40, Deduct	-387.96	
26 56 13 00-0074 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,922.89	619.71
For Galvanized Finish, Add	110.50	
For >10 To 20, Deduct	-123.07	
For >20 To 40, Deduct	-246.14	
For >40, Deduct	-400.20	
26 56 13 00-0075 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,930.67	619.71
For Galvanized Finish, Add	110.74	
For >10 To 20, Deduct	-123.27	
For >20 To 40, Deduct	-246.53	
For >40, Deduct	-400.79	
26 56 13 00-0076 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,011.08	619.71
For Galvanized Finish, Add	113.15	
For >10 To 20, Deduct	-125.28	
For >20 To 40, Deduct	-250.55	
For >40, Deduct	-406.82	
26 56 13 00-0077 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,018.16	654.14
For Galvanized Finish, Add	111.30	
For >10 To 20, Deduct	-125.45	
For >20 To 40, Deduct	-250.91	
For >40, Deduct	-409.07	
26 56 13 00-0078 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,065.25	654.14
For Galvanized Finish, Add	112.71	
For >10 To 20, Deduct	-126.63	
For >20 To 40, Deduct	-253.26	
For >40, Deduct	-412.60	
26 56 13 00-0079 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,312.17	654.14
For Galvanized Finish, Add	120.12	
For >10 To 20, Deduct	-132.80	
For >20 To 40, Deduct	-265.61	
For >40, Deduct	-431.12	
26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms ^(26 56 13 00-0009)		
26 56 13 00-0081 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,202.38	688.57
For Galvanized Finish, Add	144.76	
For >10 To 20, Deduct	-155.06	
For >20 To 40, Deduct	-310.12	
For >40, Deduct	-499.61	
26 56 13 00-0082 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,313.94	723.00
For Galvanized Finish, Add	146.04	
For >10 To 20, Deduct	-157.85	
For >20 To 40, Deduct	-315.70	
For >40, Deduct	-509.70	
26 56 13 00-0083 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,550.40	757.43
For Galvanized Finish, Add	151.07	
For >10 To 20, Deduct	-163.76	
For >20 To 40, Deduct	-327.52	
For >40, Deduct	-529.15	
26 56 13 00-0084 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,315.36	757.43
For Galvanized Finish, Add	144.02	
For >10 To 20, Deduct	-157.88	
For >20 To 40, Deduct	-315.77	
For >40, Deduct	-511.52	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0085	EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,604.78	791.86
	<i>For Galvanized Finish, Add</i>	150.63	
	<i>For >10 To 20, Deduct</i>	-165.12	
	<i>For >20 To 40, Deduct</i>	-330.24	
	<i>For >40, Deduct</i>	-534.95	
26 56 13 00-0086	EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,782.18	826.28
	<i>For Galvanized Finish, Add</i>	153.89	
	<i>For >10 To 20, Deduct</i>	-169.55	
	<i>For >20 To 40, Deduct</i>	-339.11	
	<i>For >40, Deduct</i>	-549.98	
26 56 13 00-0087	EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,507.41	791.86
	<i>For Galvanized Finish, Add</i>	147.71	
	<i>For >10 To 20, Deduct</i>	-162.69	
	<i>For >20 To 40, Deduct</i>	-325.37	
	<i>For >40, Deduct</i>	-527.65	
26 56 13 00-0088	EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,890.93	826.28
	<i>For Galvanized Finish, Add</i>	157.15	
	<i>For >10 To 20, Deduct</i>	-172.27	
	<i>For >20 To 40, Deduct</i>	-344.55	
	<i>For >40, Deduct</i>	-558.13	
26 56 13 00-0089	EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	7,121.40	860.71
	<i>For Galvanized Finish, Add</i>	162.00	
	<i>For >10 To 20, Deduct</i>	-178.04	
	<i>For >20 To 40, Deduct</i>	-356.07	
	<i>For >40, Deduct</i>	-577.14	
26 56 13 00-0090	Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091	Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56 13 00-0092	Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0093	Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		
26 56 13 00-0094	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,865.36	413.14
	<i>For >10 To 20, Deduct</i>	-71.63	
	<i>For >20 To 40, Deduct</i>	-143.27	
	<i>For >40, Deduct</i>	-235.56	
26 56 13 00-0095	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,890.04	413.14
	<i>For >10 To 20, Deduct</i>	-72.25	
	<i>For >20 To 40, Deduct</i>	-144.50	
	<i>For >40, Deduct</i>	-237.41	
26 56 13 00-0096	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,513.38	550.86
	<i>For >10 To 20, Deduct</i>	-87.83	
	<i>For >20 To 40, Deduct</i>	-175.67	
	<i>For >40, Deduct</i>	-291.05	
26 56 13 00-0097	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,560.01	550.86
	<i>For >10 To 20, Deduct</i>	-89.00	
	<i>For >20 To 40, Deduct</i>	-178.00	
	<i>For >40, Deduct</i>	-294.54	
26 56 13 00-0098	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,602.91	550.86
	<i>For >10 To 20, Deduct</i>	-90.07	
	<i>For >20 To 40, Deduct</i>	-180.15	
	<i>For >40, Deduct</i>	-297.76	
26 56 13 00-0099	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,032.69	619.71
	<i>For >10 To 20, Deduct</i>	-100.82	
	<i>For >20 To 40, Deduct</i>	-201.63	
	<i>For >40, Deduct</i>	-333.44	
26 56 13 00-0100	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,072.04	619.71
	<i>For >10 To 20, Deduct</i>	-101.80	
	<i>For >20 To 40, Deduct</i>	-203.60	
	<i>For >40, Deduct</i>	-336.39	
26 56 13 00-0101	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,116.05	619.71
	<i>For >10 To 20, Deduct</i>	-102.90	
	<i>For >20 To 40, Deduct</i>	-205.80	
	<i>For >40, Deduct</i>	-339.69	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,724.10	654.14
			<i>For >10 To 20, Deduct</i>	-118.10	
			<i>For >20 To 40, Deduct</i>	-236.21	
			<i>For >40, Deduct</i>	-387.01	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,763.35	654.14
			<i>For >10 To 20, Deduct</i>	-119.08	
			<i>For >20 To 40, Deduct</i>	-238.17	
			<i>For >40, Deduct</i>	-389.96	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,796.23	654.14
			<i>For >10 To 20, Deduct</i>	-119.91	
			<i>For >20 To 40, Deduct</i>	-239.81	
			<i>For >40, Deduct</i>	-392.42	
26 56 13 00-0105			Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,283.30	482.00
			<i>For >10 To 20, Deduct</i>	-82.08	
			<i>For >20 To 40, Deduct</i>	-164.17	
			<i>For >40, Deduct</i>	-270.35	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,525.19	482.00
			<i>For >10 To 20, Deduct</i>	-88.13	
			<i>For >20 To 40, Deduct</i>	-176.26	
			<i>For >40, Deduct</i>	-288.49	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,641.19	516.43
			<i>For >10 To 20, Deduct</i>	-91.03	
			<i>For >20 To 40, Deduct</i>	-182.06	
			<i>For >40, Deduct</i>	-298.91	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,918.07	619.71
			<i>For >10 To 20, Deduct</i>	-97.95	
			<i>For >20 To 40, Deduct</i>	-195.90	
			<i>For >40, Deduct</i>	-324.84	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,106.47	636.93
			<i>For >10 To 20, Deduct</i>	-102.66	
			<i>For >20 To 40, Deduct</i>	-205.32	
			<i>For >40, Deduct</i>	-339.83	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,378.12	654.14
			<i>For >10 To 20, Deduct</i>	-109.45	
			<i>For >20 To 40, Deduct</i>	-218.91	
			<i>For >40, Deduct</i>	-361.07	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,522.14	688.57
			<i>For >10 To 20, Deduct</i>	-113.05	
			<i>For >20 To 40, Deduct</i>	-226.11	
			<i>For >40, Deduct</i>	-373.59	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,699.42	705.78
			<i>For >10 To 20, Deduct</i>	-117.49	
			<i>For >20 To 40, Deduct</i>	-234.97	
			<i>For >40, Deduct</i>	-387.75	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,915.74	723.00
			<i>For >10 To 20, Deduct</i>	-122.89	
			<i>For >20 To 40, Deduct</i>	-245.79	
			<i>For >40, Deduct</i>	-404.83	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,129.70	723.00
			<i>For >10 To 20, Deduct</i>	-128.24	
			<i>For >20 To 40, Deduct</i>	-256.49	
			<i>For >40, Deduct</i>	-420.88	
26 56 13 00-0116	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,609.46	740.21
			<i>For >10 To 20, Deduct</i>	-140.24	
			<i>For >20 To 40, Deduct</i>	-280.47	
			<i>For >40, Deduct</i>	-457.72	
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	6,167.42	757.43
			<i>For >10 To 20, Deduct</i>	-154.19	
			<i>For >20 To 40, Deduct</i>	-308.37	
			<i>For >40, Deduct</i>	-500.43	
26 56 13 00-0118			Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0092)</small>		



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0119	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,810.40	550.86
	<i>For >10 To 20, Deduct</i>	-95.26	
	<i>For >20 To 40, Deduct</i>	-190.52	
	<i>For >40, Deduct</i>	-313.32	
26 56 13 00-0120	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,074.91	585.29
	<i>For >10 To 20, Deduct</i>	-101.87	
	<i>For >20 To 40, Deduct</i>	-203.75	
	<i>For >40, Deduct</i>	-334.88	
26 56 13 00-0121	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,633.52	688.57
	<i>For >10 To 20, Deduct</i>	-115.84	
	<i>For >20 To 40, Deduct</i>	-231.68	
	<i>For >40, Deduct</i>	-381.94	
26 56 13 00-0122	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,831.77	723.00
	<i>For >10 To 20, Deduct</i>	-120.79	
	<i>For >20 To 40, Deduct</i>	-241.59	
	<i>For >40, Deduct</i>	-398.53	
26 56 13 00-0123	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,060.17	757.43
	<i>For >10 To 20, Deduct</i>	-126.50	
	<i>For >20 To 40, Deduct</i>	-253.01	
	<i>For >40, Deduct</i>	-417.38	
26 56 13 00-0124	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,240.40	791.86
	<i>For >10 To 20, Deduct</i>	-131.01	
	<i>For >20 To 40, Deduct</i>	-262.02	
	<i>For >40, Deduct</i>	-432.62	
26 56 13 00-0125	EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,472.07	791.86
	<i>For >10 To 20, Deduct</i>	-136.80	
	<i>For >20 To 40, Deduct</i>	-273.60	
	<i>For >40, Deduct</i>	-450.00	
26 56 13 00-0126	EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,952.06	826.28
	<i>For >10 To 20, Deduct</i>	-148.80	
	<i>For >20 To 40, Deduct</i>	-297.60	
	<i>For >40, Deduct</i>	-487.72	
26 56 13 00-0127	EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	11,425.00	860.71
	<i>For >10 To 20, Deduct</i>	-285.63	
	<i>For >20 To 40, Deduct</i>	-571.25	
	<i>For >40, Deduct</i>	-899.91	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms			
<small>(26 56 13 00-0092)</small>			
26 56 13 00-0129	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	3,947.51	619.71
	<i>For >10 To 20, Deduct</i>	-98.69	
	<i>For >20 To 40, Deduct</i>	-197.38	
	<i>For >40, Deduct</i>	-327.05	
26 56 13 00-0130	EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,095.62	619.71
	<i>For >10 To 20, Deduct</i>	-102.39	
	<i>For >20 To 40, Deduct</i>	-204.78	
	<i>For >40, Deduct</i>	-338.16	
26 56 13 00-0131	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,069.38	757.43
	<i>For >10 To 20, Deduct</i>	-126.73	
	<i>For >20 To 40, Deduct</i>	-253.47	
	<i>For >40, Deduct</i>	-418.07	
26 56 13 00-0132	EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,488.39	809.07
	<i>For >10 To 20, Deduct</i>	-137.21	
	<i>For >20 To 40, Deduct</i>	-274.42	
	<i>For >40, Deduct</i>	-452.08	
26 56 13 00-0133	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,724.54	826.28
	<i>For >10 To 20, Deduct</i>	-143.11	
	<i>For >20 To 40, Deduct</i>	-286.23	
	<i>For >40, Deduct</i>	-470.65	
26 56 13 00-0134	EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,110.79	877.93
	<i>For >10 To 20, Deduct</i>	-152.77	
	<i>For >20 To 40, Deduct</i>	-305.54	
	<i>For >40, Deduct</i>	-502.21	
26 56 13 00-0135	EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,028.21	860.71
	<i>For >10 To 20, Deduct</i>	-150.71	
	<i>For >20 To 40, Deduct</i>	-301.41	
	<i>For >40, Deduct</i>	-495.15	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,856.54	912.36
			<i>For >10 To 20, Deduct</i>	-171.41	
			<i>For >20 To 40, Deduct</i>	-342.83	
			<i>For >40, Deduct</i>	-559.86	
26 56	13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,588.87	964.00
			<i>For >10 To 20, Deduct</i>	-189.72	
			<i>For >20 To 40, Deduct</i>	-379.44	
			<i>For >40, Deduct</i>	-617.37	
26 56	13 00-0138		Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0091)</small>		
26 56	13 00-0139		Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0138)</small>		
26 56	13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,198.67	550.86
			<i>For >10 To 20, Deduct</i>	-104.97	
			<i>For >20 To 40, Deduct</i>	-209.93	
			<i>For >40, Deduct</i>	-342.44	
26 56	13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,231.65	550.86
			<i>For >10 To 20, Deduct</i>	-105.79	
			<i>For >20 To 40, Deduct</i>	-211.58	
			<i>For >40, Deduct</i>	-344.92	
26 56	13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,315.92	550.86
			<i>For >10 To 20, Deduct</i>	-107.90	
			<i>For >20 To 40, Deduct</i>	-215.80	
			<i>For >40, Deduct</i>	-351.24	
26 56	13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,442.37	550.86
			<i>For >10 To 20, Deduct</i>	-111.06	
			<i>For >20 To 40, Deduct</i>	-222.12	
			<i>For >40, Deduct</i>	-360.72	
26 56	13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,727.39	619.71
			<i>For >10 To 20, Deduct</i>	-118.18	
			<i>For >20 To 40, Deduct</i>	-236.37	
			<i>For >40, Deduct</i>	-385.54	
26 56	13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,801.75	619.71
			<i>For >10 To 20, Deduct</i>	-120.04	
			<i>For >20 To 40, Deduct</i>	-240.09	
			<i>For >40, Deduct</i>	-391.12	
26 56	13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,881.06	619.71
			<i>For >10 To 20, Deduct</i>	-122.03	
			<i>For >20 To 40, Deduct</i>	-244.05	
			<i>For >40, Deduct</i>	-397.07	
26 56	13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,359.47	619.71
			<i>For >10 To 20, Deduct</i>	-133.99	
			<i>For >20 To 40, Deduct</i>	-267.97	
			<i>For >40, Deduct</i>	-432.95	
26 56	13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	5,136.45	654.14
			<i>For >10 To 20, Deduct</i>	-128.41	
			<i>For >20 To 40, Deduct</i>	-256.82	
			<i>For >40, Deduct</i>	-417.94	
26 56	13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,750.32	654.14
			<i>For >10 To 20, Deduct</i>	-143.76	
			<i>For >20 To 40, Deduct</i>	-287.52	
			<i>For >40, Deduct</i>	-463.98	
26 56	13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,810.10	654.14
			<i>For >10 To 20, Deduct</i>	-145.25	
			<i>For >20 To 40, Deduct</i>	-290.51	
			<i>For >40, Deduct</i>	-468.46	
26 56	13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,189.67	654.14
			<i>For >10 To 20, Deduct</i>	-154.74	
			<i>For >20 To 40, Deduct</i>	-309.48	
			<i>For >40, Deduct</i>	-496.93	
26 56	13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,535.86	654.14
			<i>For >10 To 20, Deduct</i>	-163.40	
			<i>For >20 To 40, Deduct</i>	-326.79	
			<i>For >40, Deduct</i>	-522.90	
26 56	13 00-0153		Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0138)</small>		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,449.11	688.57
		<i>For >10 To 20, Deduct</i>	-136.23	
		<i>For >20 To 40, Deduct</i>	-272.46	
		<i>For >40, Deduct</i>	-443.11	
26 56 13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,602.24	723.00
		<i>For >10 To 20, Deduct</i>	-140.06	
		<i>For >20 To 40, Deduct</i>	-280.11	
		<i>For >40, Deduct</i>	-456.32	
26 56 13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,725.33	757.43
		<i>For >10 To 20, Deduct</i>	-143.13	
		<i>For >20 To 40, Deduct</i>	-286.27	
		<i>For >40, Deduct</i>	-467.27	
26 56 13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,869.79	757.43
		<i>For >10 To 20, Deduct</i>	-146.74	
		<i>For >20 To 40, Deduct</i>	-293.49	
		<i>For >40, Deduct</i>	-478.11	
26 56 13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,377.90	791.86
		<i>For >10 To 20, Deduct</i>	-159.45	
		<i>For >20 To 40, Deduct</i>	-318.90	
		<i>For >40, Deduct</i>	-517.94	
26 56 13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,313.44	826.28
		<i>For >10 To 20, Deduct</i>	-182.84	
		<i>For >20 To 40, Deduct</i>	-365.67	
		<i>For >40, Deduct</i>	-589.82	
26 56 13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,073.00	791.86
		<i>For >10 To 20, Deduct</i>	-176.83	
		<i>For >20 To 40, Deduct</i>	-353.65	
		<i>For >40, Deduct</i>	-570.07	
26 56 13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,212.48	826.28
		<i>For >10 To 20, Deduct</i>	-180.31	
		<i>For >20 To 40, Deduct</i>	-360.62	
		<i>For >40, Deduct</i>	-582.25	
26 56 13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	8,763.40	860.71
		<i>For >10 To 20, Deduct</i>	-219.09	
		<i>For >20 To 40, Deduct</i>	-438.17	
		<i>For >40, Deduct</i>	-700.29	
26 56 13 00-0163		Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0091)</small>		
26 56 13 00-0164		Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0163)</small>		
26 56 13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,441.79	413.14
		<i>For >10 To 20, Deduct</i>	-86.04	
		<i>For >20 To 40, Deduct</i>	-172.09	
		<i>For >40, Deduct</i>	-278.79	
26 56 13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,534.97	413.14
		<i>For >10 To 20, Deduct</i>	-88.37	
		<i>For >20 To 40, Deduct</i>	-176.75	
		<i>For >40, Deduct</i>	-285.78	
26 56 13 00-0167	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,628.34	413.14
		<i>For >10 To 20, Deduct</i>	-90.71	
		<i>For >20 To 40, Deduct</i>	-181.42	
		<i>For >40, Deduct</i>	-292.78	
26 56 13 00-0168	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,098.21	550.86
		<i>For >10 To 20, Deduct</i>	-102.46	
		<i>For >20 To 40, Deduct</i>	-204.91	
		<i>For >40, Deduct</i>	-334.91	
26 56 13 00-0169	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,169.23	550.86
		<i>For >10 To 20, Deduct</i>	-104.23	
		<i>For >20 To 40, Deduct</i>	-208.46	
		<i>For >40, Deduct</i>	-340.24	
26 56 13 00-0170	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,246.82	550.86
		<i>For >10 To 20, Deduct</i>	-106.17	
		<i>For >20 To 40, Deduct</i>	-212.34	
		<i>For >40, Deduct</i>	-346.05	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0171	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	4,625.21	619.71
			<i>For >10 To 20, Deduct</i>	-115.63	
			<i>For >20 To 40, Deduct</i>	-231.26	
			<i>For >40, Deduct</i>	-377.88	
26 56	13 00-0172	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,721.62	619.71
			<i>For >10 To 20, Deduct</i>	-118.04	
			<i>For >20 To 40, Deduct</i>	-236.08	
			<i>For >40, Deduct</i>	-385.11	
26 56	13 00-0173	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,736.09	619.71
			<i>For >10 To 20, Deduct</i>	-118.40	
			<i>For >20 To 40, Deduct</i>	-236.80	
			<i>For >40, Deduct</i>	-386.19	
26 56	13 00-0174	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	5,037.10	654.14
			<i>For >10 To 20, Deduct</i>	-125.93	
			<i>For >20 To 40, Deduct</i>	-251.86	
			<i>For >40, Deduct</i>	-410.49	
26 56	13 00-0175	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	5,079.39	654.14
			<i>For >10 To 20, Deduct</i>	-126.98	
			<i>For >20 To 40, Deduct</i>	-253.97	
			<i>For >40, Deduct</i>	-413.66	
26 56	13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	5,178.53	654.14
			<i>For >10 To 20, Deduct</i>	-129.46	
			<i>For >20 To 40, Deduct</i>	-258.93	
			<i>For >40, Deduct</i>	-421.10	
26 56	13 00-0177		Area Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56	13 00-0178		Steel Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56	13 00-0179		Round Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0180		Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56	13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,580.34	241.00
			<i>For Galvanized Finish, Add</i>	32.95	
			<i>For >10 To 20, Deduct</i>	-55.98	
			<i>For >20 To 40, Deduct</i>	-100.98	
			<i>For >40, Deduct</i>	-212.95	
26 56	13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,710.05	275.43
			<i>For Galvanized Finish, Add</i>	34.78	
			<i>For >10 To 20, Deduct</i>	-60.14	
			<i>For >20 To 40, Deduct</i>	-108.69	
			<i>For >40, Deduct</i>	-228.96	
26 56	13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,909.73	309.86
			<i>For Galvanized Finish, Add</i>	38.70	
			<i>For >10 To 20, Deduct</i>	-67.09	
			<i>For >20 To 40, Deduct</i>	-121.29	
			<i>For >40, Deduct</i>	-255.47	
26 56	13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,115.50	344.29
			<i>For Galvanized Finish, Add</i>	42.81	
			<i>For >10 To 20, Deduct</i>	-74.29	
			<i>For >20 To 40, Deduct</i>	-134.31	
			<i>For >40, Deduct</i>	-282.90	
26 56	13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,245.21	378.71
			<i>For Galvanized Finish, Add</i>	44.63	
			<i>For >10 To 20, Deduct</i>	-78.45	
			<i>For >20 To 40, Deduct</i>	-142.02	
			<i>For >40, Deduct</i>	-298.91	
26 56	13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,359.70	413.14
			<i>For Galvanized Finish, Add</i>	46.00	
			<i>For >10 To 20, Deduct</i>	-81.99	
			<i>For >20 To 40, Deduct</i>	-148.65	
			<i>For >40, Deduct</i>	-312.64	
26 56	13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,659.44	241.00
			<i>For Galvanized Finish, Add</i>	35.32	
			<i>For >10 To 20, Deduct</i>	-59.15	
			<i>For >20 To 40, Deduct</i>	-106.52	
			<i>For >40, Deduct</i>	-224.82	
26 56	13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,792.20	275.43
			<i>For Galvanized Finish, Add</i>	37.24	
			<i>For >10 To 20, Deduct</i>	-63.43	
			<i>For >20 To 40, Deduct</i>	-114.44	
			<i>For >40, Deduct</i>	-241.29	
26 56	13 00-0189	EA	14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,074.02	309.86
			<i>For Galvanized Finish, Add</i>	43.63	
			<i>For >10 To 20, Deduct</i>	-73.67	
			<i>For >20 To 40, Deduct</i>	-132.79	
			<i>For >40, Deduct</i>	-280.12	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0190	EA		16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,221.99	344.29
			<i>For Galvanized Finish, Add</i>	46.00	
			<i>For >10 To 20, Deduct</i>	-78.55	
			<i>For >20 To 40, Deduct</i>	-141.77	
			<i>For >40, Deduct</i>	-298.87	
26 56 13 00-0191	EA		18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,360.82	378.71
			<i>For Galvanized Finish, Add</i>	48.10	
			<i>For >10 To 20, Deduct</i>	-83.07	
			<i>For >20 To 40, Deduct</i>	-150.11	
			<i>For >40, Deduct</i>	-316.25	
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,469.22	413.14
			<i>For Galvanized Finish, Add</i>	49.29	
			<i>For >10 To 20, Deduct</i>	-86.37	
			<i>For >20 To 40, Deduct</i>	-156.32	
			<i>For >40, Deduct</i>	-329.07	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,857.23	550.86
			<i>For Galvanized Finish, Add</i>	52.67	
			<i>For >10 To 20, Deduct</i>	-97.76	
			<i>For >20 To 40, Deduct</i>	-177.97	
			<i>For >40, Deduct</i>	-373.50	
26 56 13 00-0194	EA		10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,659.44	241.00
			<i>For Galvanized Finish, Add</i>	35.32	
			<i>For >10 To 20, Deduct</i>	-59.15	
			<i>For >20 To 40, Deduct</i>	-106.52	
			<i>For >40, Deduct</i>	-224.82	
26 56 13 00-0195	EA		12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,801.32	275.43
			<i>For Galvanized Finish, Add</i>	37.51	
			<i>For >10 To 20, Deduct</i>	-63.79	
			<i>For >20 To 40, Deduct</i>	-115.08	
			<i>For >40, Deduct</i>	-242.66	
26 56 13 00-0196	EA		14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,122.70	309.86
			<i>For Galvanized Finish, Add</i>	45.09	
			<i>For >10 To 20, Deduct</i>	-75.61	
			<i>For >20 To 40, Deduct</i>	-136.19	
			<i>For >40, Deduct</i>	-287.42	
26 56 13 00-0197	EA		16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,231.11	344.29
			<i>For Galvanized Finish, Add</i>	46.28	
			<i>For >10 To 20, Deduct</i>	-78.92	
			<i>For >20 To 40, Deduct</i>	-142.41	
			<i>For >40, Deduct</i>	-300.24	
26 56 13 00-0198	EA		18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,360.82	378.71
			<i>For Galvanized Finish, Add</i>	48.10	
			<i>For >10 To 20, Deduct</i>	-83.07	
			<i>For >20 To 40, Deduct</i>	-150.11	
			<i>For >40, Deduct</i>	-316.25	
26 56 13 00-0199	EA		20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,469.22	413.14
			<i>For Galvanized Finish, Add</i>	49.29	
			<i>For >10 To 20, Deduct</i>	-86.37	
			<i>For >20 To 40, Deduct</i>	-156.32	
			<i>For >40, Deduct</i>	-329.07	
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,942.42	550.86
			<i>For Galvanized Finish, Add</i>	55.22	
			<i>For >10 To 20, Deduct</i>	-101.17	
			<i>For >20 To 40, Deduct</i>	-183.94	
			<i>For >40, Deduct</i>	-386.28	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	3,238.34	619.71
			<i>For Galvanized Finish, Add</i>	59.97	
			<i>For >10 To 20, Deduct</i>	-110.94	
			<i>For >20 To 40, Deduct</i>	-201.90	
			<i>For >40, Deduct</i>	-423.78	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,663.94	413.14
			<i>For Galvanized Finish, Add</i>	55.13	
			<i>For >10 To 20, Deduct</i>	-94.16	
			<i>For >20 To 40, Deduct</i>	-169.95	
			<i>For >40, Deduct</i>	-358.28	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,981.97	550.86
			<i>For Galvanized Finish, Add</i>	56.41	
			<i>For >10 To 20, Deduct</i>	-102.75	
			<i>For >20 To 40, Deduct</i>	-186.70	
			<i>For >40, Deduct</i>	-392.21	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	3,314.41	619.71
			<i>For Galvanized Finish, Add</i>	62.25	
			<i>For >10 To 20, Deduct</i>	-113.98	
			<i>For >20 To 40, Deduct</i>	-207.22	
			<i>For >40, Deduct</i>	-435.19	
26 56 13 00-0205			Round Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0205)</small>		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,351.55	413.14
			<i>For Galvanized Finish, Add</i>	75.76	
			<i>For >10 To 20, Deduct</i>	-121.67	
			<i>For >20 To 40, Deduct</i>	-218.08	
			<i>For >40, Deduct</i>	-461.42	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0208 EA 20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,445.86	413.14
For Galvanized Finish, Add	78.59	
For >10 To 20, Deduct	-125.44	
For >20 To 40, Deduct	-224.68	
For >40, Deduct	-475.57	
26 56 13 00-0209 EA 25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,928.18	550.86
For Galvanized Finish, Add	84.79	
For >10 To 20, Deduct	-140.60	
For >20 To 40, Deduct	-252.94	
For >40, Deduct	-534.14	
26 56 13 00-0210 EA 25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,122.90	550.86
For Galvanized Finish, Add	90.64	
For >10 To 20, Deduct	-148.39	
For >20 To 40, Deduct	-266.57	
For >40, Deduct	-563.35	
26 56 13 00-0211 EA 30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,370.15	619.71
For Galvanized Finish, Add	93.92	
For >10 To 20, Deduct	-156.21	
For >20 To 40, Deduct	-281.12	
For >40, Deduct	-593.55	
26 56 13 00-0212 EA 30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,695.70	619.71
For Galvanized Finish, Add	103.69	
For >10 To 20, Deduct	-169.24	
For >20 To 40, Deduct	-303.91	
For >40, Deduct	-642.38	
26 56 13 00-0213 EA 35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,831.47	654.14
For Galvanized Finish, Add	105.70	
For >10 To 20, Deduct	-173.63	
For >20 To 40, Deduct	-312.04	
For >40, Deduct	-659.31	
26 56 13 00-0214 EA 35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,032.28	654.14
For Galvanized Finish, Add	111.72	
For >10 To 20, Deduct	-181.67	
For >20 To 40, Deduct	-326.09	
For >40, Deduct	-689.43	
26 56 13 00-0215 EA 35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,512.99	654.14
For Galvanized Finish, Add	126.14	
For >10 To 20, Deduct	-200.90	
For >20 To 40, Deduct	-359.74	
For >40, Deduct	-761.54	
26 56 13 00-0216 EA 39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,545.34	688.57
For Galvanized Finish, Add	125.05	
For >10 To 20, Deduct	-201.16	
For >20 To 40, Deduct	-360.63	
For >40, Deduct	-762.94	
26 56 13 00-0217 EA 39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,630.53	688.57
For Galvanized Finish, Add	127.60	
For >10 To 20, Deduct	-204.56	
For >20 To 40, Deduct	-366.59	
For >40, Deduct	-775.72	
26 56 13 00-0218 EA 45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	7,683.57	895.14
For Galvanized Finish, Add	176.80	
For >10 To 20, Deduct	-280.49	
For >20 To 40, Deduct	-502.04	
For >40, Deduct	-1,063.02	
26 56 13 00-0219 EA 50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	7,940.75	1,032.86
For Galvanized Finish, Add	176.25	
For >10 To 20, Deduct	-286.64	
For >20 To 40, Deduct	-514.54	
For >40, Deduct	-1,087.83	
26 56 13 00-0220 EA 25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,443.34	550.86
For Galvanized Finish, Add	130.25	
For >10 To 20, Deduct	-201.21	
For >20 To 40, Deduct	-359.00	
For >40, Deduct	-761.42	
26 56 13 00-0221 EA 30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	6,183.48	619.71
For Galvanized Finish, Add	148.32	
For >10 To 20, Deduct	-228.75	
For >20 To 40, Deduct	-408.06	
For >40, Deduct	-865.55	
26 56 13 00-0222 EA 39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	7,185.24	688.57
For Galvanized Finish, Add	174.24	
For >10 To 20, Deduct	-266.75	
For >20 To 40, Deduct	-475.42	
For >40, Deduct	-1,008.93	
26 56 13 00-0223 EA 45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	8,632.83	895.14
For Galvanized Finish, Add	205.28	
For >10 To 20, Deduct	-318.46	
For >20 To 40, Deduct	-568.49	
For >40, Deduct	-1,205.41	
26 56 13 00-0224 EA 50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	10,082.66	1,032.86
For Galvanized Finish, Add	240.51	
For >10 To 20, Deduct	-372.32	
For >20 To 40, Deduct	-664.47	
For >40, Deduct	-1,409.11	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	11,320.95	1,032.86
			<i>For Galvanized Finish, Add</i>	277.66	
			<i>For >10 To 20, Deduct</i>	-421.85	
			<i>For >20 To 40, Deduct</i>	-751.15	
			<i>For >40, Deduct</i>	-1,594.86	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	15,458.74	1,032.86
			<i>For Galvanized Finish, Add</i>	401.79	
			<i>For >10 To 20, Deduct</i>	-587.36	
			<i>For >20 To 40, Deduct</i>	-1,040.80	
			<i>For >40, Deduct</i>	-2,215.53	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	17,466.78	1,032.86
			<i>For Galvanized Finish, Add</i>	462.03	
			<i>For >10 To 20, Deduct</i>	-667.69	
			<i>For >20 To 40, Deduct</i>	-1,181.36	
			<i>For >40, Deduct</i>	-2,516.73	
26 56 13 00-0228			Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,556.00	241.00
			<i>For Galvanized Finish, Add</i>	32.22	
			<i>For >10 To 20, Deduct</i>	-55.01	
			<i>For >20 To 40, Deduct</i>	-99.28	
			<i>For >40, Deduct</i>	-209.30	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,624.86	275.43
			<i>For Galvanized Finish, Add</i>	32.22	
			<i>For >10 To 20, Deduct</i>	-56.73	
			<i>For >20 To 40, Deduct</i>	-102.72	
			<i>For >40, Deduct</i>	-216.19	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,745.43	309.86
			<i>For Galvanized Finish, Add</i>	33.77	
			<i>For >10 To 20, Deduct</i>	-60.52	
			<i>For >20 To 40, Deduct</i>	-109.79	
			<i>For >40, Deduct</i>	-230.83	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,852.88	327.07
			<i>For Galvanized Finish, Add</i>	35.96	
			<i>For >10 To 20, Deduct</i>	-64.30	
			<i>For >20 To 40, Deduct</i>	-116.62	
			<i>For >40, Deduct</i>	-245.23	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,887.31	344.29
			<i>For Galvanized Finish, Add</i>	35.96	
			<i>For >10 To 20, Deduct</i>	-65.16	
			<i>For >20 To 40, Deduct</i>	-118.34	
			<i>For >40, Deduct</i>	-248.67	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,989.64	378.71
			<i>For Galvanized Finish, Add</i>	36.97	
			<i>For >10 To 20, Deduct</i>	-68.22	
			<i>For >20 To 40, Deduct</i>	-124.13	
			<i>For >40, Deduct</i>	-260.57	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,085.87	413.14
			<i>For Galvanized Finish, Add</i>	37.79	
			<i>For >10 To 20, Deduct</i>	-71.04	
			<i>For >20 To 40, Deduct</i>	-129.49	
			<i>For >40, Deduct</i>	-271.57	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,543.85	550.86
			<i>For Galvanized Finish, Add</i>	43.26	
			<i>For >10 To 20, Deduct</i>	-85.23	
			<i>For >20 To 40, Deduct</i>	-156.04	
			<i>For >40, Deduct</i>	-326.49	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,496.61	413.14
			<i>For Galvanized Finish, Add</i>	50.11	
			<i>For >10 To 20, Deduct</i>	-87.47	
			<i>For >20 To 40, Deduct</i>	-158.24	
			<i>For >40, Deduct</i>	-333.18	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,109.75	550.86
			<i>For Galvanized Finish, Add</i>	60.24	
			<i>For >10 To 20, Deduct</i>	-107.86	
			<i>For >20 To 40, Deduct</i>	-195.65	
			<i>For >40, Deduct</i>	-411.38	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,579.10	619.71
			<i>For Galvanized Finish, Add</i>	70.19	
			<i>For >10 To 20, Deduct</i>	-124.57	
			<i>For >20 To 40, Deduct</i>	-225.75	
			<i>For >40, Deduct</i>	-474.89	
26 56 13 00-0241	EA		20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,384.03	413.14
			<i>For Galvanized Finish, Add</i>	46.73	
			<i>For >10 To 20, Deduct</i>	-82.97	
			<i>For >20 To 40, Deduct</i>	-150.36	
			<i>For >40, Deduct</i>	-316.29	
26 56 13 00-0242	EA		25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,890.69	550.86
			<i>For Galvanized Finish, Add</i>	53.67	
			<i>For >10 To 20, Deduct</i>	-99.10	
			<i>For >20 To 40, Deduct</i>	-180.31	
			<i>For >40, Deduct</i>	-378.52	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0243	EA		30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,390.47	619.71
			<i>For Galvanized Finish, Add</i>	64.53	
			<i>For >10 To 20, Deduct</i>	-117.03	
			<i>For >20 To 40, Deduct</i>	-212.54	
			<i>For >40, Deduct</i>	-446.60	
26 56 13 00-0244	EA		20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,770.43	413.14
			<i>For Galvanized Finish, Add</i>	58.32	
			<i>For >10 To 20, Deduct</i>	-98.42	
			<i>For >20 To 40, Deduct</i>	-177.40	
			<i>For >40, Deduct</i>	-374.25	
26 56 13 00-0245	EA		25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,383.58	550.86
			<i>For Galvanized Finish, Add</i>	68.46	
			<i>For >10 To 20, Deduct</i>	-118.82	
			<i>For >20 To 40, Deduct</i>	-214.82	
			<i>For >40, Deduct</i>	-452.45	
26 56 13 00-0246	EA		30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,837.72	619.71
			<i>For Galvanized Finish, Add</i>	77.95	
			<i>For >10 To 20, Deduct</i>	-134.92	
			<i>For >20 To 40, Deduct</i>	-243.85	
			<i>For >40, Deduct</i>	-513.69	
26 56 13 00-0247	EA		35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,283.83	654.14
			<i>For Galvanized Finish, Add</i>	89.27	
			<i>For >10 To 20, Deduct</i>	-151.73	
			<i>For >20 To 40, Deduct</i>	-273.70	
			<i>For >40, Deduct</i>	-577.16	
26 56 13 00-0248	EA		30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,437.09	619.71
			<i>For Galvanized Finish, Add</i>	95.93	
			<i>For >10 To 20, Deduct</i>	-158.89	
			<i>For >20 To 40, Deduct</i>	-285.81	
			<i>For >40, Deduct</i>	-603.59	
26 56 13 00-0249	EA		35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,886.24	654.14
			<i>For Galvanized Finish, Add</i>	107.34	
			<i>For >10 To 20, Deduct</i>	-175.83	
			<i>For >20 To 40, Deduct</i>	-315.87	
			<i>For >40, Deduct</i>	-667.52	
26 56 13 00-0250	EA		40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	5,171.11	688.57
			<i>For Galvanized Finish, Add</i>	113.82	
			<i>For >10 To 20, Deduct</i>	-186.19	
			<i>For >20 To 40, Deduct</i>	-334.44	
			<i>For >40, Deduct</i>	-706.81	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253	EA		20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,871.36	413.14
			<i>For Galvanized Finish, Add</i>	151.35	
			<i>For >10 To 20, Deduct</i>	-222.46	
			<i>For >20 To 40, Deduct</i>	-394.47	
			<i>For >40, Deduct</i>	-839.39	
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,489.82	550.86
			<i>For Galvanized Finish, Add</i>	161.64	
			<i>For >10 To 20, Deduct</i>	-243.07	
			<i>For >20 To 40, Deduct</i>	-432.25	
			<i>For >40, Deduct</i>	-918.39	
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,190.54	619.71
			<i>For Galvanized Finish, Add</i>	238.53	
			<i>For >10 To 20, Deduct</i>	-349.03	
			<i>For >20 To 40, Deduct</i>	-618.55	
			<i>For >40, Deduct</i>	-1,316.61	
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,994.34	413.14
			<i>For Galvanized Finish, Add</i>	155.04	
			<i>For >10 To 20, Deduct</i>	-227.38	
			<i>For >20 To 40, Deduct</i>	-403.08	
			<i>For >40, Deduct</i>	-857.84	
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,205.00	550.86
			<i>For Galvanized Finish, Add</i>	183.10	
			<i>For >10 To 20, Deduct</i>	-271.67	
			<i>For >20 To 40, Deduct</i>	-482.32	
			<i>For >40, Deduct</i>	-1,025.66	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	10,255.21	619.71
			<i>For Galvanized Finish, Add</i>	270.47	
			<i>For >10 To 20, Deduct</i>	-391.62	
			<i>For >20 To 40, Deduct</i>	-693.08	
			<i>For >40, Deduct</i>	-1,476.31	
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	11,809.42	654.14
			<i>For Galvanized Finish, Add</i>	315.03	
			<i>For >10 To 20, Deduct</i>	-452.75	
			<i>For >20 To 40, Deduct</i>	-800.49	
			<i>For >40, Deduct</i>	-1,706.00	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	13,939.68	688.57
			<i>For Galvanized Finish, Add</i>	376.88	
			<i>For >10 To 20, Deduct</i>	-536.93	
			<i>For >20 To 40, Deduct</i>	-948.24	
			<i>For >40, Deduct</i>	-2,022.10	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,677.20	413.14
			<i>For Galvanized Finish, Add</i>	145.53	
			<i>For >10 To 20, Deduct</i>	-214.69	
			<i>For >20 To 40, Deduct</i>	-380.88	
			<i>For >40, Deduct</i>	-810.27	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,179.16	550.86
			<i>For Galvanized Finish, Add</i>	152.32	
			<i>For >10 To 20, Deduct</i>	-230.64	
			<i>For >20 To 40, Deduct</i>	-410.51	
			<i>For >40, Deduct</i>	-871.79	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,643.63	619.71
			<i>For Galvanized Finish, Add</i>	222.13	
			<i>For >10 To 20, Deduct</i>	-327.15	
			<i>For >20 To 40, Deduct</i>	-580.27	
			<i>For >40, Deduct</i>	-1,234.57	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,900.49	413.14
			<i>For Galvanized Finish, Add</i>	152.23	
			<i>For >10 To 20, Deduct</i>	-223.63	
			<i>For >20 To 40, Deduct</i>	-396.51	
			<i>For >40, Deduct</i>	-843.76	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,913.75	550.86
			<i>For Galvanized Finish, Add</i>	174.36	
			<i>For >10 To 20, Deduct</i>	-260.02	
			<i>For >20 To 40, Deduct</i>	-461.93	
			<i>For >40, Deduct</i>	-981.98	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	9,850.70	619.71
			<i>For Galvanized Finish, Add</i>	258.34	
			<i>For >10 To 20, Deduct</i>	-375.44	
			<i>For >20 To 40, Deduct</i>	-664.76	
			<i>For >40, Deduct</i>	-1,415.63	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,243.52	413.14
			<i>For Galvanized Finish, Add</i>	162.52	
			<i>For >10 To 20, Deduct</i>	-237.35	
			<i>For >20 To 40, Deduct</i>	-420.52	
			<i>For >40, Deduct</i>	-895.21	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,531.85	550.86
			<i>For Galvanized Finish, Add</i>	192.90	
			<i>For >10 To 20, Deduct</i>	-284.75	
			<i>For >20 To 40, Deduct</i>	-505.20	
			<i>For >40, Deduct</i>	-1,074.69	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	10,578.82	619.71
			<i>For Galvanized Finish, Add</i>	280.18	
			<i>For >10 To 20, Deduct</i>	-404.56	
			<i>For >20 To 40, Deduct</i>	-715.73	
			<i>For >40, Deduct</i>	-1,524.85	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	12,204.23	654.14
			<i>For Galvanized Finish, Add</i>	326.88	
			<i>For >10 To 20, Deduct</i>	-468.55	
			<i>For >20 To 40, Deduct</i>	-828.13	
			<i>For >40, Deduct</i>	-1,765.22	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	14,150.03	688.57
			<i>For Galvanized Finish, Add</i>	383.19	
			<i>For >10 To 20, Deduct</i>	-545.34	
			<i>For >20 To 40, Deduct</i>	-962.96	
			<i>For >40, Deduct</i>	-2,053.65	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,376.87	413.14
			<i>For Galvanized Finish, Add</i>	106.52	
			<i>For >10 To 20, Deduct</i>	-162.68	
			<i>For >20 To 40, Deduct</i>	-289.86	
			<i>For >40, Deduct</i>	-615.22	
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,279.05	550.86
			<i>For Galvanized Finish, Add</i>	125.32	
			<i>For >10 To 20, Deduct</i>	-194.64	
			<i>For >20 To 40, Deduct</i>	-347.50	
			<i>For >40, Deduct</i>	-736.77	
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,870.10	619.71
			<i>For Galvanized Finish, Add</i>	138.92	
			<i>For >10 To 20, Deduct</i>	-216.21	
			<i>For >20 To 40, Deduct</i>	-386.12	
			<i>For >40, Deduct</i>	-818.54	
26 56 13 00-0277	EA		35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,538.31	654.14
			<i>For Galvanized Finish, Add</i>	156.90	
			<i>For >10 To 20, Deduct</i>	-241.91	
			<i>For >20 To 40, Deduct</i>	-431.52	
			<i>For >40, Deduct</i>	-915.33	
26 56 13 00-0278	EA		39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,893.16	688.57
			<i>For Galvanized Finish, Add</i>	165.48	
			<i>For >10 To 20, Deduct</i>	-255.07	
			<i>For >20 To 40, Deduct</i>	-454.98	
			<i>For >40, Deduct</i>	-965.12	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
26 56 13 00-0279	EA		20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,742.94 147.50 -217.32 -385.48 -820.13	413.14	
26 56 13 00-0280	EA		25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,350.01 157.45 -237.47 -422.47 -897.42	550.86	
26 56 13 00-0281	EA		30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,746.34 165.21 -251.26 -447.46 -949.98	619.71	
26 56 13 00-0282	EA		30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,549.55 189.30 -283.39 -503.68 -1,070.46	619.71	
26 56 13 00-0283	EA		35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	8,196.47 206.65 -308.23 -547.59 -1,164.06	654.14	
26 56 13 00-0284	EA		35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,191.36 236.49 -348.03 -617.23 -1,313.29	654.14	
26 56 13 00-0285	EA		39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	8,310.96 208.01 -311.78 -554.22 -1,177.79	688.57	
26 56 13 00-0286	EA		39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	10,760.17 281.49 -409.75 -725.67 -1,545.17	688.57	
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,755.51 238.96 -363.37 -647.08 -1,373.81	895.14	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	11,425.84 289.07 -430.18 -764.00 -1,624.36	895.14	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	11,786.46 291.62 -440.47 -783.74 -1,664.68	1,032.86	
26 56 13 00-0290	Factory Accessories For Steel Area Light Poles <small>(26 56 13 00-0178)</small>					
26 56 13 00-0291	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles	107.87		
26 56 13 00-0292	EA		Extra Handhole For Steel Area Light Poles	160.42		
26 56 13 00-0293	EA		Vibration Dampener For Steel Area Light Poles	163.19		
26 56 13 00-0294	Aluminum Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.					
26 56 13 00-0295	Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>					
26 56 13 00-0296	Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>					
26 56 13 00-0297	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	865.22 45.21 90.42 -28.41 -52.30 -109.13	206.57	
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	957.26 47.53 95.05 -31.06 -57.37 -119.49	241.00	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0299	EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,055.10 50.42 100.85 -33.94 -62.84 -130.72	275.43
26 56 13 00-0300	EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,154.09 53.44 106.88 -36.87 -68.39 -142.13	309.86
26 56 13 00-0301	EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,208.23 55.41 110.82 -38.52 -71.49 -148.53	327.07
26 56 13 00-0302	EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,261.20 57.26 114.53 -40.12 -74.51 -154.75	344.29
26 56 13 00-0303	EA 16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,330.76 64.22 128.44 -42.90 -79.38 -165.19	344.29
26 56 13 00-0304	EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,443.66 68.62 137.25 -46.38 -85.91 -178.68	378.71
26 56 13 00-0305	EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,549.61 72.33 144.67 -49.59 -91.95 -191.13	413.14
26 56 13 00-0306	EA 15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,464.41 81.03 162.05 -48.76 -89.43 -186.95	327.07
26 56 13 00-0307	EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,805.79 97.95 195.90 -59.84 -109.88 -229.55	413.14
26 56 13 00-0308	EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,935.62 110.93 221.87 -65.03 -118.97 -249.03	413.14
26 56 13 00-0309	EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,332.76 123.11 246.21 -76.78 -141.26 -294.83	550.86
26 56 13 00-0310	EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,701.16 146.17 292.35 -89.45 -164.29 -343.20	619.71
26 56 13 00-0311	EA 20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,629.59 80.33 160.66 -52.79 -97.55 -203.12	413.14
26 56 13 00-0312	EA 20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,925.18 109.89 219.78 -64.61 -118.24 -247.46	413.14



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0313 EA 25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,314.21	550.86
For Bronze Or Satin Anodized Finish, Add	121.25	
For Black Anodized Finish, Add	242.50	
For >10 To 20, Deduct	-76.04	
For >20 To 40, Deduct	-139.96	
For >40, Deduct	-292.05	
26 56 13 00-0314 EA 25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,482.29	550.86
For Bronze Or Satin Anodized Finish, Add	138.06	
For Black Anodized Finish, Add	276.12	
For >10 To 20, Deduct	-82.77	
For >20 To 40, Deduct	-151.73	
For >40, Deduct	-317.26	
26 56 13 00-0315 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,891.26	619.71
For Bronze Or Satin Anodized Finish, Add	165.18	
For Black Anodized Finish, Add	330.37	
For >10 To 20, Deduct	-97.06	
For >20 To 40, Deduct	-177.60	
For >40, Deduct	-371.72	
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0317 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	983.46	206.57
For Bronze, Satin Or Black Anodized Finish, Add	85.55	
For >10 To 20, Deduct	-33.14	
For >20 To 40, Deduct	-60.58	
For >40, Deduct	-126.86	
26 56 13 00-0318 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,098.68	241.00
For Bronze, Satin Or Black Anodized Finish, Add	92.50	
For >10 To 20, Deduct	-36.72	
For >20 To 40, Deduct	-67.27	
For >40, Deduct	-140.70	
26 56 13 00-0319 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,209.27	275.43
For Bronze, Satin Or Black Anodized Finish, Add	98.76	
For >10 To 20, Deduct	-40.11	
For >20 To 40, Deduct	-73.63	
For >40, Deduct	-153.85	
26 56 13 00-0320 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,297.83	309.86
For Bronze, Satin Or Black Anodized Finish, Add	101.72	
For >10 To 20, Deduct	-42.62	
For >20 To 40, Deduct	-78.45	
For >40, Deduct	-163.69	
26 56 13 00-0321 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,400.31	344.29
For Bronze, Satin Or Black Anodized Finish, Add	106.76	
For >10 To 20, Deduct	-45.68	
For >20 To 40, Deduct	-84.25	
For >40, Deduct	-175.62	
26 56 13 00-0322 EA 10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,123.03	241.00
For Bronze, Satin Or Black Anodized Finish, Add	96.15	
For >10 To 20, Deduct	-37.69	
For >20 To 40, Deduct	-68.97	
For >40, Deduct	-144.35	
26 56 13 00-0323 EA 12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,231.30	275.43
For Bronze, Satin Or Black Anodized Finish, Add	102.07	
For >10 To 20, Deduct	-40.99	
For >20 To 40, Deduct	-75.17	
For >40, Deduct	-157.15	
26 56 13 00-0324 EA 14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,343.04	309.86
For Bronze, Satin Or Black Anodized Finish, Add	108.50	
For >10 To 20, Deduct	-44.43	
For >20 To 40, Deduct	-81.62	
For >40, Deduct	-170.47	
26 56 13 00-0325 EA 16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,453.63	344.29
For Bronze, Satin Or Black Anodized Finish, Add	114.76	
For >10 To 20, Deduct	-47.82	
For >20 To 40, Deduct	-87.98	
For >40, Deduct	-183.62	
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,570.02	378.71
For Bronze, Satin Or Black Anodized Finish, Add	121.89	
For >10 To 20, Deduct	-51.44	
For >20 To 40, Deduct	-94.75	
For >40, Deduct	-197.63	
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,679.44	413.14
For Bronze, Satin Or Black Anodized Finish, Add	127.97	
For >10 To 20, Deduct	-54.78	
For >20 To 40, Deduct	-101.04	
For >40, Deduct	-210.60	
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,276.51	275.43
For Bronze, Satin Or Black Anodized Finish, Add	108.85	
For >10 To 20, Deduct	-42.80	
For >20 To 40, Deduct	-78.34	
For >40, Deduct	-163.93	
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,396.36	309.86
For Bronze, Satin Or Black Anodized Finish, Add	116.50	
For >10 To 20, Deduct	-46.56	
For >20 To 40, Deduct	-85.35	
For >40, Deduct	-178.47	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0330	EA	16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,515.07 123.98 -50.27 -92.28 -192.83	344.29
26 56	13 00-0331	EA	18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,636.09 131.80 -54.08 -99.38 -207.54	378.71
26 56	13 00-0332	EA	16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,579.98 133.71 -52.87 -96.83 -202.57	344.29
26 56	13 00-0333	EA	20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,831.29 150.75 -60.86 -111.66 -233.38	413.14
26 56	13 00-0334	EA	12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,319.40 115.28 -44.51 -81.34 -170.37	275.43
26 56	13 00-0335	EA	14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,452.00 124.84 -48.78 -89.25 -186.81	309.86
26 56	13 00-0336	EA	16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,573.02 132.67 -52.59 -96.34 -201.52	344.29
26 56	13 00-0337	EA	18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,701.00 141.54 -56.68 -103.92 -217.28	378.71
26 56	13 00-0338	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,825.49 149.88 -60.63 -111.26 -232.51	413.14
26 56	13 00-0339	EA	16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,657.64 145.36 -55.98 -102.26 -214.22	344.29
26 56	13 00-0340	EA	18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,796.06 155.79 -60.48 -110.58 -231.54	378.71
26 56	13 00-0341	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,861.43 155.27 -62.06 -113.77 -237.90	413.14
26 56	13 00-0342		Round Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0295)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56	13 00-0343	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	770.87 42.66 85.32 -25.67 -47.08 -98.42	172.14
26 56	13 00-0344	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	827.31 44.86 89.72 -27.41 -50.34 -105.16	189.36
26 56	13 00-0345	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	913.91 50.08 100.15 -30.36 -55.71 -116.43	206.57



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0346 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	940.57	206.57
For Bronze Or Satin Anodized Finish, Add	52.74	
For Black Anodized Finish, Add	105.49	
For >10 To 20, Deduct	-31.43	
For >20 To 40, Deduct	-57.58	
For >40, Deduct	-120.43	
26 56 13 00-0347 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	974.18	206.57
For Bronze Or Satin Anodized Finish, Add	56.10	
For Black Anodized Finish, Add	112.21	
For >10 To 20, Deduct	-32.77	
For >20 To 40, Deduct	-59.93	
For >40, Deduct	-125.47	
26 56 13 00-0348 EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,110.62	223.79
For Bronze Or Satin Anodized Finish, Add	66.31	
For Black Anodized Finish, Add	132.61	
For >10 To 20, Deduct	-37.71	
For >20 To 40, Deduct	-68.79	
For >40, Deduct	-144.21	
26 56 13 00-0349 EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,187.94	241.00
For Bronze Or Satin Anodized Finish, Add	70.59	
For Black Anodized Finish, Add	141.19	
For >10 To 20, Deduct	-40.29	
For >20 To 40, Deduct	-73.52	
For >40, Deduct	-154.09	
26 56 13 00-0350 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,367.61	241.00
For Bronze Or Satin Anodized Finish, Add	88.56	
For Black Anodized Finish, Add	177.12	
For >10 To 20, Deduct	-47.47	
For >20 To 40, Deduct	-86.09	
For >40, Deduct	-181.04	
26 56 13 00-0351 EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,667.15	275.43
For Bronze Or Satin Anodized Finish, Add	111.63	
For Black Anodized Finish, Add	223.26	
For >10 To 20, Deduct	-58.42	
For >20 To 40, Deduct	-105.68	
For >40, Deduct	-222.53	
26 56 13 00-0352 EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,891.33	309.86
For Bronze Or Satin Anodized Finish, Add	127.16	
For Black Anodized Finish, Add	254.32	
For >10 To 20, Deduct	-66.36	
For >20 To 40, Deduct	-120.00	
For >40, Deduct	-252.71	
26 56 13 00-0353 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	2,103.46	309.86
For Bronze Or Satin Anodized Finish, Add	148.38	
For Black Anodized Finish, Add	296.75	
For >10 To 20, Deduct	-74.84	
For >20 To 40, Deduct	-134.85	
For >40, Deduct	-284.53	
26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0356 EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	741.19	206.57
For Bronze Or Satin Anodized Finish, Add	32.81	
For Black Anodized Finish, Add	65.61	
For >10 To 20, Deduct	-23.45	
For >20 To 40, Deduct	-43.62	
For >40, Deduct	-90.52	
26 56 13 00-0357 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	836.71	241.00
For Bronze Or Satin Anodized Finish, Add	35.47	
For Black Anodized Finish, Add	70.94	
For >10 To 20, Deduct	-26.24	
For >20 To 40, Deduct	-48.93	
For >40, Deduct	-101.41	
26 56 13 00-0358 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	932.23	275.43
For Bronze Or Satin Anodized Finish, Add	38.14	
For Black Anodized Finish, Add	76.27	
For >10 To 20, Deduct	-29.03	
For >20 To 40, Deduct	-54.24	
For >40, Deduct	-112.29	
26 56 13 00-0359 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,038.17	309.86
For Bronze Or Satin Anodized Finish, Add	41.85	
For Black Anodized Finish, Add	83.69	
For >10 To 20, Deduct	-32.23	
For >20 To 40, Deduct	-60.28	
For >40, Deduct	-124.74	
26 56 13 00-0360 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,142.97	344.29
For Bronze Or Satin Anodized Finish, Add	45.44	
For Black Anodized Finish, Add	90.88	
For >10 To 20, Deduct	-35.39	
For >20 To 40, Deduct	-66.24	
For >40, Deduct	-137.02	

26 Electrical

26 50 Lighting

26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0361	EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	866.85 38.49 76.97 -27.44 -51.04 -105.93	241.00
26 56 13 00-0362	EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	979.76 42.89 85.78 -30.93 -57.57 -119.42	275.43
26 56 13 00-0363	EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,089.18 46.95 93.89 -34.27 -63.85 -132.39	309.86
26 56 13 00-0364	EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,299.93 54.25 108.50 -40.64 -75.85 -157.12	378.71
26 56 13 00-0365	EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,397.76 57.15 114.30 -43.52 -81.32 -168.35	413.14
26 56 13 00-0366	EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,022.65 47.18 94.36 -32.64 -60.57 -125.85	275.43
26 56 13 00-0367	EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,139.02 51.93 103.86 -36.27 -67.34 -139.87	309.86
26 56 13 00-0368	EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,263.52 57.50 114.99 -40.21 -74.68 -155.10	344.29
26 56 13 00-0369	EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,367.16 60.97 121.95 -43.32 -80.55 -167.20	378.71
26 56 13 00-0370	EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,487.01 66.07 132.15 -47.09 -87.57 -181.74	413.14
26 56 13 00-0371	EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,377.12 68.86 137.71 -44.76 -82.63 -172.14	344.29
26 56 13 00-0372	EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,512.06 75.46 150.93 -49.12 -90.70 -188.94	378.71
26 56 13 00-0373	EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,599.45 77.32 154.63 -51.58 -95.44 -198.60	413.14
26 56 13 00-0374	EA 23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,840.34 87.63 175.27 -59.15 -109.54 -227.85	482.00



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0375 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,088.17 98.65 197.29 -67.00 -124.14 -258.14	550.86
26 56 13 00-0376 EA 18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,625.66 86.82 173.65 -53.66 -98.65 -205.98	378.71
26 56 13 00-0377 EA 20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,737.40 91.11 182.22 -57.10 -105.09 -219.30	413.14
26 56 13 00-0378 EA 23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,949.30 98.53 197.06 -63.51 -117.17 -244.20	482.00
26 56 13 00-0379 EA 25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,171.63 106.99 213.98 -70.34 -129.98 -270.66	550.86
26 56 13 00-0380 EA 28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,334.39 116.38 232.76 -75.82 -140.00 -291.63	585.29
26 56 13 00-0381 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,499.46 126.00 252.01 -81.39 -150.17 -312.95	619.71
26 56 13 00-0382 EA 23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,057.11 109.31 218.62 -67.82 -124.72 -260.37	482.00
26 56 13 00-0383 EA 25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,243.50 114.18 228.36 -73.21 -135.01 -281.44	550.86
26 56 13 00-0384 EA 28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,412.05 124.15 248.30 -78.92 -145.43 -303.28	585.29
26 56 13 00-0385 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,620.01 138.06 276.12 -86.21 -158.61 -331.03	619.71
26 56 13 00-0386 EA 33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,706.61 143.28 286.55 -89.16 -163.99 -342.30	636.93
26 56 13 00-0387 EA 35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,881.28 157.30 314.60 -95.63 -175.52 -366.78	654.14
26 56 13 00-0388 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,070.17 51.93 103.86 -34.54 -63.89 -132.98	275.43

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,194.66 57.50 114.99 -38.49 -71.23 -148.21	309.86
26 56	13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,323.80 63.52 127.05 -42.62 -78.89 -164.14	344.29
26 56	13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,440.19 68.28 136.55 -46.25 -85.66 -178.16	378.71
26 56	13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,555.40 72.91 145.82 -49.82 -92.35 -192.00	413.14
26 56	13 00-0393	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,450.15 76.16 152.32 -47.68 -87.74 -183.09	344.29
26 56	13 00-0394	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,588.56 83.11 166.23 -52.18 -96.05 -200.41	378.71
26 56	13 00-0395	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,691.03 86.48 172.95 -55.25 -101.85 -212.34	413.14
26 56	13 00-0396	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,926.12 96.21 192.42 -62.58 -115.55 -240.72	482.00
26 56	13 00-0397	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,168.16 106.65 213.29 -70.20 -129.74 -270.14	550.86
26 56	13 00-0398	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,188.09 122.41 244.82 -73.06 -133.89 -280.01	482.00
26 56	13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,417.38 131.57 263.13 -80.17 -147.18 -307.52	550.86
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,599.84 142.93 285.85 -86.44 -158.58 -331.45	585.29
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,762.59 152.32 304.63 -91.91 -168.59 -352.42	619.71
26 56	13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,909.46 163.56 327.12 -97.27 -178.19 -372.73	636.93



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0403 EA 35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,037.77	654.14
For Bronze Or Satin Anodized Finish, Add	172.95	
For Black Anodized Finish, Add	345.90	
For >10 To 20, Deduct	-101.89	
For >20 To 40, Deduct	-186.48	
For >40, Deduct	-390.25	
26 56 13 00-0404 EA 37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,147.54	671.36
For Bronze Or Satin Anodized Finish, Add	180.48	
For Black Anodized Finish, Add	360.97	
For >10 To 20, Deduct	-105.76	
For >20 To 40, Deduct	-193.47	
For >40, Deduct	-405.00	
26 56 13 00-0405 EA 39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,344.26	688.57
For Bronze Or Satin Anodized Finish, Add	196.71	
For Black Anodized Finish, Add	393.43	
For >10 To 20, Deduct	-113.11	
For >20 To 40, Deduct	-206.56	
For >40, Deduct	-432.78	
26 56 13 00-0406 EA 28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,100.60	585.29
For Bronze Or Satin Anodized Finish, Add	193.00	
For Black Anodized Finish, Add	386.01	
For >10 To 20, Deduct	-106.47	
For >20 To 40, Deduct	-193.63	
For >40, Deduct	-406.56	
26 56 13 00-0407 EA 30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,342.18	619.71
For Bronze Or Satin Anodized Finish, Add	210.28	
For Black Anodized Finish, Add	420.55	
For >10 To 20, Deduct	-115.10	
For >20 To 40, Deduct	-209.16	
For >40, Deduct	-439.36	
26 56 13 00-0408 EA 33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,512.24	636.93
For Bronze Or Satin Anodized Finish, Add	223.84	
For Black Anodized Finish, Add	447.68	
For >10 To 20, Deduct	-121.38	
For >20 To 40, Deduct	-220.38	
For >40, Deduct	-463.14	
26 56 13 00-0409 EA 35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,641.70	654.14
For Bronze Or Satin Anodized Finish, Add	233.34	
For Black Anodized Finish, Add	466.69	
For >10 To 20, Deduct	-126.04	
For >20 To 40, Deduct	-228.75	
For >40, Deduct	-480.84	
26 56 13 00-0410 EA 37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,714.38	671.36
For Bronze Or Satin Anodized Finish, Add	237.17	
For Black Anodized Finish, Add	474.34	
For >10 To 20, Deduct	-128.43	
For >20 To 40, Deduct	-233.15	
For >40, Deduct	-490.02	
26 56 13 00-0411 EA 39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,930.80	688.57
For Bronze Or Satin Anodized Finish, Add	255.37	
For Black Anodized Finish, Add	510.73	
For >10 To 20, Deduct	-136.58	
For >20 To 40, Deduct	-247.61	
For >40, Deduct	-520.76	
26 56 13 00-0412 EA 28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,941.80	585.29
For Bronze Or Satin Anodized Finish, Add	177.12	
For Black Anodized Finish, Add	354.25	
For >10 To 20, Deduct	-100.11	
For >20 To 40, Deduct	-182.51	
For >40, Deduct	-382.74	
26 56 13 00-0413 EA 30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,162.51	619.71
For Bronze Or Satin Anodized Finish, Add	192.31	
For Black Anodized Finish, Add	384.62	
For >10 To 20, Deduct	-107.91	
For >20 To 40, Deduct	-196.59	
For >40, Deduct	-412.41	
26 56 13 00-0414 EA 33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,249.10	636.93
For Bronze Or Satin Anodized Finish, Add	197.52	
For Black Anodized Finish, Add	395.05	
For >10 To 20, Deduct	-110.86	
For >20 To 40, Deduct	-201.96	
For >40, Deduct	-423.67	
26 56 13 00-0415 EA 35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,468.98	654.14
For Bronze Or Satin Anodized Finish, Add	216.07	
For Black Anodized Finish, Add	432.14	
For >10 To 20, Deduct	-119.14	
For >20 To 40, Deduct	-216.66	
For >40, Deduct	-454.93	
26 56 13 00-0416 EA 37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,577.60	671.36
For Bronze Or Satin Anodized Finish, Add	223.49	
For Black Anodized Finish, Add	446.98	
For >10 To 20, Deduct	-122.96	
For >20 To 40, Deduct	-223.58	
For >40, Deduct	-469.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,795.18	688.57
			<i>For Bronze Or Satin Anodized Finish, Add</i>	241.81	
			<i>For Black Anodized Finish, Add</i>	483.61	
			<i>For >10 To 20, Deduct</i>	-131.15	
			<i>For >20 To 40, Deduct</i>	-238.12	
			<i>For >40, Deduct</i>	-500.42	
26 56	13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,667.44	585.29
			<i>For Bronze Or Satin Anodized Finish, Add</i>	249.69	
			<i>For Black Anodized Finish, Add</i>	499.37	
			<i>For >10 To 20, Deduct</i>	-129.14	
			<i>For >20 To 40, Deduct</i>	-233.31	
			<i>For >40, Deduct</i>	-491.59	
26 56	13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,877.72	619.71
			<i>For Bronze Or Satin Anodized Finish, Add</i>	263.83	
			<i>For Black Anodized Finish, Add</i>	527.66	
			<i>For >10 To 20, Deduct</i>	-136.52	
			<i>For >20 To 40, Deduct</i>	-246.65	
			<i>For >40, Deduct</i>	-519.69	
26 56	13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,050.10	636.93
			<i>For Bronze Or Satin Anodized Finish, Add</i>	277.62	
			<i>For Black Anodized Finish, Add</i>	555.25	
			<i>For >10 To 20, Deduct</i>	-142.90	
			<i>For >20 To 40, Deduct</i>	-258.03	
			<i>For >40, Deduct</i>	-543.82	
26 56	13 00-0421	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,316.34	654.14
			<i>For Bronze Or Satin Anodized Finish, Add</i>	300.81	
			<i>For Black Anodized Finish, Add</i>	601.61	
			<i>For >10 To 20, Deduct</i>	-153.03	
			<i>For >20 To 40, Deduct</i>	-275.98	
			<i>For >40, Deduct</i>	-582.04	
26 56	13 00-0422	EA	37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,376.27	671.36
			<i>For Bronze Or Satin Anodized Finish, Add</i>	303.36	
			<i>For Black Anodized Finish, Add</i>	606.71	
			<i>For >10 To 20, Deduct</i>	-154.91	
			<i>For >20 To 40, Deduct</i>	-279.48	
			<i>For >40, Deduct</i>	-589.31	
26 56	13 00-0423	EA	39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,641.38	688.57
			<i>For Bronze Or Satin Anodized Finish, Add</i>	326.43	
			<i>For Black Anodized Finish, Add</i>	652.85	
			<i>For >10 To 20, Deduct</i>	-165.00	
			<i>For >20 To 40, Deduct</i>	-297.35	
			<i>For >40, Deduct</i>	-627.35	
26 56	13 00-0424	EA	48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,866.65	1,032.86
			<i>For Bronze Or Satin Anodized Finish, Add</i>	380.10	
			<i>For Black Anodized Finish, Add</i>	760.19	
			<i>For >10 To 20, Deduct</i>	-203.68	
			<i>For >20 To 40, Deduct</i>	-369.35	
			<i>For >40, Deduct</i>	-776.71	
26 56	13 00-0425	EA	50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	6,010.39	1,032.86
			<i>For Bronze Or Satin Anodized Finish, Add</i>	394.47	
			<i>For Black Anodized Finish, Add</i>	788.94	
			<i>For >10 To 20, Deduct</i>	-209.43	
			<i>For >20 To 40, Deduct</i>	-379.41	
			<i>For >40, Deduct</i>	-798.27	
26 56	13 00-0426		Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0354)</small>		
26 56	13 00-0427	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	990.41	206.57
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	86.59	
			<i>For >10 To 20, Deduct</i>	-33.42	
			<i>For >20 To 40, Deduct</i>	-61.07	
			<i>For >40, Deduct</i>	-127.90	
26 56	13 00-0428	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,083.61	241.00
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	90.24	
			<i>For >10 To 20, Deduct</i>	-36.11	
			<i>For >20 To 40, Deduct</i>	-66.21	
			<i>For >40, Deduct</i>	-138.44	
26 56	13 00-0429	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,177.98	275.43
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	94.07	
			<i>For >10 To 20, Deduct</i>	-38.86	
			<i>For >20 To 40, Deduct</i>	-71.44	
			<i>For >40, Deduct</i>	-149.15	
26 56	13 00-0430	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,274.65	309.86
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	98.24	
			<i>For >10 To 20, Deduct</i>	-41.69	
			<i>For >20 To 40, Deduct</i>	-76.83	
			<i>For >40, Deduct</i>	-160.21	
26 56	13 00-0431	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,370.17	344.29
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	102.24	
			<i>For >10 To 20, Deduct</i>	-44.48	
			<i>For >20 To 40, Deduct</i>	-82.14	
			<i>For >40, Deduct</i>	-171.10	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0432	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,097.52 92.33 -36.67 -67.19 -140.53	241.00
26 56	13 00-0433	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,194.20 96.50 -39.51 -72.58 -151.59	275.43
26 56	13 00-0434	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,293.19 101.02 -42.43 -78.13 -162.99	309.86
26 56	13 00-0435	EA	16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,391.03 105.37 -45.31 -83.60 -174.23	344.29
26 56	13 00-0436	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,503.94 111.98 -48.80 -90.13 -187.72	378.71
26 56	13 00-0437	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,606.41 117.02 -51.86 -95.92 -199.65	413.14
26 56	13 00-0438	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,239.41 103.28 -41.31 -75.74 -158.37	275.43
26 56	13 00-0439	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,344.20 108.67 -44.47 -81.70 -170.64	309.86
26 56	13 00-0440	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,462.90 116.15 -48.19 -88.63 -185.01	344.29
26 56	13 00-0441	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,570.02 121.89 -51.44 -94.75 -197.63	378.71
26 56	13 00-0442	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,692.19 129.89 -55.29 -101.93 -212.51	413.14
26 56	13 00-0443	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,528.98 126.06 -50.83 -93.26 -194.92	344.29
26 56	13 00-0444	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,659.27 135.28 -55.01 -101.00 -211.02	378.71
26 56	13 00-0445	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,764.06 140.67 -58.17 -106.96 -223.30	413.14
26 56	13 00-0446	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,275.35 108.67 -42.75 -78.26 -163.76	275.43
26 56	13 00-0447	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,398.68 116.85 -46.65 -85.51 -178.82	309.86
26 56	13 00-0448	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,528.98 126.06 -50.83 -93.26 -194.92	344.29

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,645.36 133.19 -54.45 -100.03 -208.93	378.71
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,769.85 141.54 -58.40 -107.36 -224.16	413.14
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,604.32 137.36 -53.84 -98.53 -206.22	344.29
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,743.89 147.97 -58.39 -106.92 -223.71	378.71
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,854.47 154.23 -61.78 -113.29 -236.86	413.14
26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small>					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	687.41 34.31 68.62 -22.33 -41.23 -85.90	172.14
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	719.86 37.56 75.11 -23.63 -43.50 -90.76	172.14
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	780.95 40.22 80.45 -25.56 -47.09 -98.21	189.36
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	833.92 42.08 84.16 -27.16 -50.11 -104.43	206.57
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	875.65 46.25 92.50 -28.83 -53.03 -110.69	206.57
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	812.24 43.35 86.71 -26.81 -49.28 -102.90	189.36
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	879.13 46.60 93.20 -28.97 -53.28 -111.21	206.57
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	902.31 48.92 97.83 -29.90 -54.90 -114.69	206.57
26 56 13 00-0463	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	973.84 52.63 105.25 -32.24 -59.22 -123.70	223.79



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,040.72	241.00
For Bronze Or Satin Anodized Finish, Add	55.87	
For Black Anodized Finish, Add	111.74	
For >10 To 20, Deduct	-34.40	
For >20 To 40, Deduct	-63.21	
For >40, Deduct	-132.01	
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	969.55	206.57
For Bronze Or Satin Anodized Finish, Add	55.64	
For Black Anodized Finish, Add	111.28	
For >10 To 20, Deduct	-32.58	
For >20 To 40, Deduct	-59.61	
For >40, Deduct	-124.78	
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,048.03	223.79
For Bronze Or Satin Anodized Finish, Add	60.05	
For Black Anodized Finish, Add	120.09	
For >10 To 20, Deduct	-35.21	
For >20 To 40, Deduct	-64.41	
For >40, Deduct	-134.83	
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,120.71	241.00
For Bronze Or Satin Anodized Finish, Add	63.87	
For Black Anodized Finish, Add	127.74	
For >10 To 20, Deduct	-37.60	
For >20 To 40, Deduct	-68.81	
For >40, Deduct	-144.01	
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,143.08	223.79
For Bronze Or Satin Anodized Finish, Add	69.55	
For Black Anodized Finish, Add	139.10	
For >10 To 20, Deduct	-39.01	
For >20 To 40, Deduct	-71.06	
For >40, Deduct	-149.08	
26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,463.13	275.43
For Bronze Or Satin Anodized Finish, Add	91.23	
For Black Anodized Finish, Add	182.45	
For >10 To 20, Deduct	-50.26	
For >20 To 40, Deduct	-91.40	
For >40, Deduct	-191.93	
26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,594.12	275.43
For Bronze Or Satin Anodized Finish, Add	104.33	
For Black Anodized Finish, Add	208.65	
For >10 To 20, Deduct	-55.50	
For >20 To 40, Deduct	-100.57	
For >40, Deduct	-211.58	
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,775.41	309.86
For Bronze Or Satin Anodized Finish, Add	115.57	
For Black Anodized Finish, Add	231.14	
For >10 To 20, Deduct	-61.72	
For >20 To 40, Deduct	-111.88	
For >40, Deduct	-235.33	
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,917.99	309.86
For Bronze Or Satin Anodized Finish, Add	129.83	
For Black Anodized Finish, Add	259.66	
For >10 To 20, Deduct	-67.42	
For >20 To 40, Deduct	-121.87	
For >40, Deduct	-256.71	
26 56 13 00-0473 Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	891.88	206.57
For Bronze Or Satin Anodized Finish, Add	47.87	
For Black Anodized Finish, Add	95.75	
For >10 To 20, Deduct	-29.48	
For >20 To 40, Deduct	-54.17	
For >40, Deduct	-113.13	
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	985.08	241.00
For Bronze Or Satin Anodized Finish, Add	50.31	
For Black Anodized Finish, Add	100.62	
For >10 To 20, Deduct	-32.17	
For >20 To 40, Deduct	-59.32	
For >40, Deduct	-123.66	
26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,087.56	275.43
For Bronze Or Satin Anodized Finish, Add	53.67	
For Black Anodized Finish, Add	107.34	
For >10 To 20, Deduct	-35.24	
For >20 To 40, Deduct	-65.11	
For >40, Deduct	-135.59	
26 56 13 00-0478 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,188.87	309.86
For Bronze Or Satin Anodized Finish, Add	56.92	
For Black Anodized Finish, Add	113.83	
For >10 To 20, Deduct	-38.26	
For >20 To 40, Deduct	-70.83	
For >40, Deduct	-147.35	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,244.16 59.00 118.00 -39.95 -74.01 -153.92	327.07
26 56	13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,299.46 61.09 122.18 -41.65 -77.19 -160.49	344.29
26 56	13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,407.73 65.03 130.06 -44.95 -83.39 -173.29	378.71
26 56	13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,526.42 70.01 140.03 -48.66 -90.32 -187.65	413.14
26 56	13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,379.44 69.09 138.17 -44.85 -82.79 -172.49	344.29
26 56	13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,490.03 73.26 146.52 -48.24 -89.15 -185.63	378.71
26 56	13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,615.68 78.94 157.88 -52.23 -96.57 -201.04	413.14
26 56	13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,591.92 93.78 187.56 -53.86 -98.35 -206.08	327.07
26 56	13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,948.37 112.21 224.42 -65.54 -119.86 -250.94	413.14
26 56	13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,368.69 126.70 253.40 -78.22 -143.77 -300.22	550.86
26 56	13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,687.55 86.13 172.25 -55.11 -101.60 -211.82	413.14
26 56	13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,088.63 126.24 252.47 -71.15 -129.68 -271.98	413.14
26 56	13 00-0491	EA	25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,496.20 139.45 278.90 -83.32 -152.70 -319.34	550.86
26 56	13 00-0492	EA	20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,308.87 148.26 296.52 -79.96 -145.10 -305.02	413.14



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0493 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,783.68 168.20 336.39 -94.82 -172.82 -362.47	550.86
26 56 13 00-0494 EA 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,220.47 198.10 396.21 -110.23 -200.64 -421.10	619.71
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	801.01 45.67 91.34 -26.88 -49.18 -102.94	172.14
26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	894.55 51.58 103.17 -30.10 -55.04 -115.25	189.36
26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	953.32 54.02 108.04 -31.94 -58.47 -122.34	206.57
26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	982.30 56.92 113.83 -33.09 -60.50 -126.69	206.57
26 56 13 00-0500 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,018.23 60.51 121.02 -34.53 -63.01 -132.08	206.57
26 56 13 00-0501 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,175.53 72.80 145.59 -40.31 -73.34 -153.95	223.79
26 56 13 00-0502 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,259.81 77.78 155.56 -43.16 -78.55 -164.87	241.00
26 56 13 00-0503 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,441.80 95.98 191.96 -50.44 -91.29 -192.17	241.00
26 56 13 00-0504 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,656.72 110.59 221.17 -58.01 -104.95 -220.97	275.43
26 56 13 00-0505 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,063.59 151.27 302.55 -74.28 -133.43 -282.00	275.43
26 56 13 00-0506 Factory Accessories For Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0507 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	107.87	
26 56 13 00-0508 EA Extra Handhole For Aluminum Area Light Poles	43.21	
26 56 13 00-0509 EA Vibration Dampener For Aluminum Area Light Poles	163.19	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0510	Fiberglass Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511	Round Tapered, Fiberglass Area Light Poles <small>(26 56 13 00-0510)</small>		
26 56 13 00-0512	Round Tapered, Fiberglass Area Light Poles, Anchor Base <small>(26 56 13 00-0511)</small>		
26 56 13 00-0513	EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,471.80	241.00
	For >10 To 20, Deduct	-51.64	
	For >20 To 40, Deduct	-93.39	
	For >40, Deduct	-196.67	
26 56 13 00-0514	EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,599.57	275.43
	For >10 To 20, Deduct	-65.72	
	For >20 To 40, Deduct	-100.95	
	For >40, Deduct	-212.39	
26 56 13 00-0515	EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,729.02	309.86
	For >10 To 20, Deduct	-59.87	
	For >20 To 40, Deduct	-108.64	
	For >40, Deduct	-228.37	
26 56 13 00-0516	EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,856.80	344.29
	For >10 To 20, Deduct	-63.94	
	For >20 To 40, Deduct	-116.20	
	For >40, Deduct	-244.09	
26 56 13 00-0517	EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,014.88	378.71
	For >10 To 20, Deduct	-69.23	
	For >20 To 40, Deduct	-125.89	
	For >40, Deduct	-264.36	
26 56 13 00-0518	EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,146.01	413.14
	For >10 To 20, Deduct	-73.45	
	For >20 To 40, Deduct	-133.70	
	For >40, Deduct	-280.59	
26 56 13 00-0519	EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,344.33	482.00
	For >10 To 20, Deduct	-79.31	
	For >20 To 40, Deduct	-144.82	
	For >40, Deduct	-303.45	
26 56 13 00-0520	EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,540.96	550.86
	For >10 To 20, Deduct	-85.11	
	For >20 To 40, Deduct	-155.83	
	For >40, Deduct	-326.06	
26 56 13 00-0521	EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,677.31	550.86
	For >10 To 20, Deduct	-90.57	
	For >20 To 40, Deduct	-165.38	
	For >40, Deduct	-346.51	
26 56 13 00-0522	EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,865.68	585.29
	For >10 To 20, Deduct	-97.07	
	For >20 To 40, Deduct	-177.19	
	For >40, Deduct	-371.32	
26 56 13 00-0523	EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,054.06	619.71
	For >10 To 20, Deduct	-103.57	
	For >20 To 40, Deduct	-189.00	
	For >40, Deduct	-396.14	
26 56 13 00-0524	EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,626.66	241.00
	For >10 To 20, Deduct	-57.84	
	For >20 To 40, Deduct	-104.23	
	For >40, Deduct	-219.90	
26 56 13 00-0525	EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,724.14	275.43
	For >10 To 20, Deduct	-60.70	
	For >20 To 40, Deduct	-109.67	
	For >40, Deduct	-231.08	
26 56 13 00-0526	EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,823.29	309.86
	For >10 To 20, Deduct	-63.64	
	For >20 To 40, Deduct	-115.24	
	For >40, Deduct	-242.51	
26 56 13 00-0527	EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,925.82	344.29
	For >10 To 20, Deduct	-66.70	
	For >20 To 40, Deduct	-121.04	
	For >40, Deduct	-254.44	
26 56 13 00-0528	EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,036.76	378.71
	For >10 To 20, Deduct	-70.11	
	For >20 To 40, Deduct	-127.42	
	For >40, Deduct	-267.64	
26 56 13 00-0529	EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,146.01	413.14
	For >10 To 20, Deduct	-73.45	
	For >20 To 40, Deduct	-133.70	
	For >40, Deduct	-280.59	
26 56 13 00-0530	EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,324.13	482.00
	For >10 To 20, Deduct	-78.51	
	For >20 To 40, Deduct	-143.41	
	For >40, Deduct	-300.42	
26 56 13 00-0531	EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,540.96	550.86
	For >10 To 20, Deduct	-85.11	
	For >20 To 40, Deduct	-155.83	
	For >40, Deduct	-326.06	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,598.19 -87.40 -159.84 -334.64	550.86
26 56	13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,725.97 -91.48 -167.41 -350.37	585.29
26 56	13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,853.74 -95.56 -174.97 -366.09	619.71
26 56	13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,853.91 -66.93 -120.13 -253.99	241.00
26 56	13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,974.96 -70.74 -127.23 -268.70	275.43
26 56	13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,095.99 -74.54 -134.33 -283.41	309.86
26 56	13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,218.72 -78.42 -141.54 -298.38	344.29
26 56	13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,348.18 -82.57 -149.22 -314.36	378.71
26 56	13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,487.73 -87.12 -157.62 -331.85	413.14
26 56	13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,711.30 -93.99 -170.51 -358.50	482.00
26 56	13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,936.54 -100.94 -183.52 -385.40	550.86
26 56	13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,024.07 -104.44 -189.65 -398.53	550.86
26 56	13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,230.97 -111.68 -202.76 -426.12	585.29
26 56	13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,399.14 -117.37 -213.15 -447.90	619.71
26 56	13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,532.89 -122.21 -221.83 -466.24	636.93
26 56	13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,666.62 -127.04 -230.50 -484.58	654.14
26 56	13 00-0548		Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small>		
26 56	13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	909.89 -31.23 -56.81 -119.27	172.14
26 56	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	976.29 -33.37 -60.77 -127.51	189.36
26 56	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,041.02 -35.44 -64.61 -135.50	206.57
26 56	13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,069.64 -36.59 -66.61 -139.79	206.57

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,151.20	223.79
			<i>For >10 To 20, Deduct</i>	-39.33	
			<i>For >20 To 40, Deduct</i>	-71.63	
			<i>For >40, Deduct</i>	-150.30	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,219.30	241.00
			<i>For >10 To 20, Deduct</i>	-41.54	
			<i>For >20 To 40, Deduct</i>	-75.71	
			<i>For >40, Deduct</i>	-158.80	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,292.45	258.21
			<i>For >10 To 20, Deduct</i>	-43.95	
			<i>For >20 To 40, Deduct</i>	-80.14	
			<i>For >40, Deduct</i>	-168.05	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,374.01	275.43
			<i>For >10 To 20, Deduct</i>	-46.70	
			<i>For >20 To 40, Deduct</i>	-85.16	
			<i>For >40, Deduct</i>	-178.56	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,535.61	275.43
			<i>For >10 To 20, Deduct</i>	-53.16	
			<i>For >20 To 40, Deduct</i>	-96.48	
			<i>For >40, Deduct</i>	-202.80	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,731.64	292.64
			<i>For >10 To 20, Deduct</i>	-60.49	
			<i>For >20 To 40, Deduct</i>	-109.51	
			<i>For >40, Deduct</i>	-230.48	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,927.66	309.86
			<i>For >10 To 20, Deduct</i>	-67.81	
			<i>For >20 To 40, Deduct</i>	-122.54	
			<i>For >40, Deduct</i>	-258.16	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,064.76	172.14
			<i>For >10 To 20, Deduct</i>	-37.43	
			<i>For >20 To 40, Deduct</i>	-67.65	
			<i>For >40, Deduct</i>	-142.50	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,139.58	189.36
			<i>For >10 To 20, Deduct</i>	-39.90	
			<i>For >20 To 40, Deduct</i>	-72.20	
			<i>For >40, Deduct</i>	-152.00	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,214.41	206.57
			<i>For >10 To 20, Deduct</i>	-42.38	
			<i>For >20 To 40, Deduct</i>	-76.75	
			<i>For >40, Deduct</i>	-161.50	
26 56	13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,256.49	206.57
			<i>For >10 To 20, Deduct</i>	-44.06	
			<i>For >20 To 40, Deduct</i>	-79.69	
			<i>For >40, Deduct</i>	-167.82	
26 56	13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,331.32	223.79
			<i>For >10 To 20, Deduct</i>	-46.54	
			<i>For >20 To 40, Deduct</i>	-84.24	
			<i>For >40, Deduct</i>	-177.32	
26 56	13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,406.15	241.00
			<i>For >10 To 20, Deduct</i>	-49.02	
			<i>For >20 To 40, Deduct</i>	-88.79	
			<i>For >40, Deduct</i>	-186.82	
26 56	13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,480.98	258.21
			<i>For >10 To 20, Deduct</i>	-51.49	
			<i>For >20 To 40, Deduct</i>	-93.34	
			<i>For >40, Deduct</i>	-196.33	
26 56	13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,594.52	275.43
			<i>For >10 To 20, Deduct</i>	-55.52	
			<i>For >20 To 40, Deduct</i>	-100.60	
			<i>For >40, Deduct</i>	-211.64	
26 56	13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,751.07	275.43
			<i>For >10 To 20, Deduct</i>	-61.78	
			<i>For >20 To 40, Deduct</i>	-111.56	
			<i>For >40, Deduct</i>	-235.12	
26 56	13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,943.74	292.64
			<i>For >10 To 20, Deduct</i>	-68.97	
			<i>For >20 To 40, Deduct</i>	-124.36	
			<i>For >40, Deduct</i>	-262.30	
26 56	13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,134.71	309.86
			<i>For >10 To 20, Deduct</i>	-76.09	
			<i>For >20 To 40, Deduct</i>	-137.04	
			<i>For >40, Deduct</i>	-289.22	
26 56	13 00-0571	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,201.11	172.14
			<i>For >10 To 20, Deduct</i>	-42.88	
			<i>For >20 To 40, Deduct</i>	-77.19	
			<i>For >40, Deduct</i>	-162.95	
26 56	13 00-0572	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,265.82	189.36
			<i>For >10 To 20, Deduct</i>	-44.95	
			<i>For >20 To 40, Deduct</i>	-81.03	
			<i>For >40, Deduct</i>	-170.94	
26 56	13 00-0573	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,328.87	206.57
			<i>For >10 To 20, Deduct</i>	-46.96	
			<i>For >20 To 40, Deduct</i>	-84.76	
			<i>For >40, Deduct</i>	-178.67	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0574 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.49 -48.10 -86.76 -182.97	206.57
26 56 13 00-0575 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,420.53 -50.11 -90.49 -190.70	223.79
26 56 13 00-0576 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,485.26 -52.18 -94.33 -198.69	241.00
26 56 13 00-0577 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,607.23 -56.54 -102.18 -215.26	258.21
26 56 13 00-0578 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,749.39 -61.71 -111.44 -234.87	275.43
26 56 13 00-0579 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,847.02 -65.62 -118.27 -249.51	275.43
26 56 13 00-0580 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,980.77 -70.45 -126.95 -267.85	292.64
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,114.51 -75.28 -135.62 -286.19	309.86
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles	59.68	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles	59.68	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles	113.24	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles	149.97	
26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,252.01	585.29
26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,374.95	619.71
26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,462.20	636.93
26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,029.53	654.14
26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,356.57	688.57
26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,164.45	895.14
26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,995.80	1,101.71
26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,731.07	585.29
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,447.30	619.71
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'	698.85	206.57
26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design	2,832.55	413.01
26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles	270.66	84.28
26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze	555.49	168.56
26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
Note: Round or square.		
26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	2,337.28	275.43
26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	2,648.73	344.29
26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	2,932.44	413.14
26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,096.19	619.71
26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,709.49	654.14
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	5,372.02	688.57
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	6,249.91	895.14
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22)	18,631.57	1,549.27
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24)	22,196.71	1,897.48
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26)	26,333.26	2,563.25
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)		
See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0616			Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615) Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617	EA		10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,567.07	172.14
26 56 13 00-0618	EA		12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,651.88	198.31
26 56 13 00-0619	EA		14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,791.66	206.57
26 56 13 00-0620	EA		16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,201.90	241.00
26 56 13 00-0621	EA		18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,572.60	261.66
26 56 13 00-0622	EA		20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,961.28	282.31
26 56 13 00-0623			Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0624			Aluminum Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0625			Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626			Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627	EA		7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	516.30	206.57
26 56 13 00-0628	EA		12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	877.33	275.43
26 56 13 00-0629			Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630	EA		7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	467.75	206.57
26 56 13 00-0631	EA		12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	828.78	275.43
26 56 13 00-0632			Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0633			Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)		
26 56 13 00-0634			Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)		
26 56 13 00-0635	EA		6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	597.30	206.57
26 56 13 00-0636			Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)		
26 56 13 00-0637	EA		6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	556.05	206.57
26 56 13 00-0638			Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0639			Light Pole Brackets (26 56 13 00-0638)		
26 56 13 00-0640			Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0641			Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0642			Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.		
26 56 13 00-0643	EA		Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	821.16	41.32
			<i>For Galvanized Finish, Add</i>	73.85	
26 56 13 00-0644	EA		Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,043.98	41.32
			<i>For Galvanized Finish, Add</i>	96.14	
26 56 13 00-0645	EA		Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,112.00	41.32
			<i>For Galvanized Finish, Add</i>	102.94	
26 56 13 00-0646	EA		Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,531.85	41.32
			<i>For Galvanized Finish, Add</i>	144.92	
26 56 13 00-0647	EA		Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,597.23	41.32
			<i>For Galvanized Finish, Add</i>	151.46	
26 56 13 00-0648			Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.		
26 56 13 00-0649	EA		Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	271.58	41.32
			<i>For Bronze Or Satin Anodized Finish, Add</i>	18.90	
			<i>For Black Anodized Finish, Add</i>	37.79	
26 56 13 00-0650	EA		Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	331.85	41.32
			<i>For Bronze Or Satin Anodized Finish, Add</i>	24.92	
			<i>For Black Anodized Finish, Add</i>	49.84	
26 56 13 00-0651	EA		Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	348.08	41.32
			<i>For Bronze Or Satin Anodized Finish, Add</i>	26.55	
			<i>For Black Anodized Finish, Add</i>	53.09	
26 56 13 00-0652	EA		Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	404.88	41.32
			<i>For Bronze Or Satin Anodized Finish, Add</i>	32.23	
			<i>For Black Anodized Finish, Add</i>	64.45	
26 56 13 00-0653	EA		Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	416.47	41.32
			<i>For Bronze Or Satin Anodized Finish, Add</i>	33.38	
			<i>For Black Anodized Finish, Add</i>	66.77	
26 56 13 00-0654			Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0654)</small> Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	884.79	41.32
For Galvanized Finish, Add	80.22	
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	1,098.22	41.32
For Galvanized Finish, Add	101.56	
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	1,348.90	41.32
For Galvanized Finish, Add	126.63	
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	1,600.74	41.32
For Galvanized Finish, Add	151.81	
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0639)</small>		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0660)</small> Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	820.83	68.86
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,257.68	68.86
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,774.56	68.86
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,944.61	68.86
26 56 13 00-0666 Light Pole Arms <small>(26 56 13 00-0638)</small>		
26 56 13 00-0667 Wood Pole Streetlight Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	464.62	61.97
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	489.83	68.86
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	564.42	86.07
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	699.16	68.86
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	773.17	86.07
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	939.24	103.29
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	267.51	68.86
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	334.08	68.86
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	447.60	86.07
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	588.71	103.29
26 56 13 00-0680 Area Light Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0681 Steel Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	916.59	68.86
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,456.71	75.75
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,619.56	82.63
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,928.46	89.52
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	1,090.97	86.07
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,576.33	92.96
26 56 13 00-0688 Aluminum Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	326.66	68.86
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	402.82	86.07
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	481.30	103.29
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	324.34	68.86
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	463.30	75.75
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	398.18	86.07
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	564.96	92.96
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	483.61	103.29
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	686.33	110.18
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole <small>(26 56 13 00-0001)</small>		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,272.51	
26 56 13 00-0700 High Mast Lighting <small>(26 56 13 00-0001)</small>		
26 56 13 00-0701 High Mast Lighting Assemblies <small>(26 56 13 00-0700)</small> Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly.....	57,122.23	2,106.26
26 56 13 00-0703 EA 70' High Mast Lighting Assembly.....	60,340.00	2,206.00
26 56 13 00-0704 EA 80' High Mast Lighting Assembly.....	63,591.21	2,350.07
26 56 13 00-0705 EA 90' High Mast Lighting Assembly.....	66,873.87	2,538.48
26 56 13 00-0706 EA 100' High Mast Lighting Assembly.....	70,173.32	2,771.15
26 56 13 00-0707 EA 110' High Mast Lighting Assembly.....	74,419.10	3,048.47
26 56 13 00-0708 EA 120' High Mast Lighting Assembly.....	77,846.64	3,325.57

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0709	EA		130' High Mast Lighting Assembly.....	81,010.86	3,602.67
26 56 13 00-0710	EA		140' High Mast Lighting Assembly.....	84,438.40	3,879.90
26 56 13 00-0711	EA		150' High Mast Lighting Assembly.....	88,610.98	4,157.00
26 56 13 00-0712			High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713	EA		60' High Mast Light Poles.....	21,667.28	1,264.98
26 56 13 00-0714	EA		70' High Mast Light Poles.....	24,855.10	1,324.91
26 56 13 00-0715	EA		80' High Mast Light Poles.....	28,063.03	1,411.46
26 56 13 00-0716	EA		90' High Mast Light Poles.....	31,289.11	1,524.63
26 56 13 00-0717	EA		100' High Mast Light Poles.....	34,535.30	1,664.45
26 56 13 00-0718	EA		110' High Mast Light Poles.....	37,801.59	1,830.90
26 56 13 00-0719	EA		120' High Mast Light Poles.....	40,268.22	1,997.34
26 56 13 00-0720	EA		130' High Mast Light Poles.....	40,305.80	3,701.74
26 56 13 00-0721	EA		140' High Mast Light Poles.....	44,936.22	2,330.23
26 56 13 00-0722	EA		150' High Mast Light Poles.....	47,668.10	2,496.67
26 56 13 00-0723			High Mast Lighting Accessories (26 56 13 00-0700)		
			See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724	EA		Bottom Latching System For High Mast Lighting.....	1,003.18	
26 56 13 00-0725	EA		Top Latching System For High Mast Lighting.....	2,844.16	
26 56 13 00-0726	EA		Centering Springs For High Mast Lighting.....	2,154.08	
26 56 13 00-0727	EA		Electric Power Cord For High Mast Lighting.....	904.24	
26 56 13 00-0728	EA		Aircraft Warning Lights For High Mast Lighting.....	1,682.65	
26 56 13 00-0729	EA		Internal Motorized Hoist For High Mast Lighting.....	18,449.71	
26 56 13 00-0730	EA		Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....	18,553.41	
26 56 13 00-0731			Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732			Concrete Bases, Cast In Place (26 56 13 00-0731)		
			Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA		Cast In Place Concrete Base For Poles Minimum Charge.....	376.91	
			Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734	VLF		1-1/2' Diameter Concrete Base For Poles.....	65.66	
26 56 13 00-0735	VLF		2' Diameter Concrete Base For Poles.....	91.48	
26 56 13 00-0736	VLF		2-1/2' Diameter Concrete Base For Poles.....	122.84	
26 56 13 00-0737	VLF		3' Diameter Concrete Base For Poles.....	160.85	
26 56 13 00-0738	VLF		3-1/2' Diameter Concrete Base For Poles.....	214.81	
26 56 13 00-0739	VLF		4' Diameter Concrete Base For Poles.....	269.77	
26 56 13 00-0740	VLF		5' Diameter Concrete Base For Poles.....	390.76	
26 56 13 00-0741	VLF		6' Diameter Concrete Base For Poles.....	536.61	
26 56 18			Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001			Exterior Globe (26 56 18)		
26 56 18 00-0002			Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003	EA		100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	59.57	22.37
26 56 18 00-0004	EA		150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	90.17	22.37
26 56 18 00-0005	EA		100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	69.32	22.37
26 56 18 00-0006	EA		150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	93.93	22.37
26 56 18 00-0007			Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18)		
			Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008	EA		7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	265.83	89.51
26 56 18 00-0009	EA		9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	277.07	95.10
26 56 18 00-0010	EA		13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	305.27	100.70
26 56 18 00-0011	EA		75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	295.71	111.88
26 56 18 00-0012	EA		100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	332.76	128.67
26 56 19			LED Exterior Lighting (26 56)		
26 56 19 00-0001			LED, Roadway Lighting (26 56 19)		
26 56 19 00-0002			LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)		
26 56 19 00-0003			Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0004 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,450.86	165.78
<i>For >50 To 100, Deduct</i>	-72.54	
<i>For >100 To 250, Deduct</i>	-108.81	
<i>For >250 To 500, Deduct</i>	-173.07	
<i>For >500 To 1000, Deduct</i>	-237.32	
<i>For >1000, Deduct</i>	-301.58	
26 56 19 00-0005 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,250.31	170.26
<i>For >50 To 100, Deduct</i>	-112.52	
<i>For >100 To 250, Deduct</i>	-168.77	
<i>For >250 To 500, Deduct</i>	-272.78	
<i>For >500 To 1000, Deduct</i>	-376.78	
<i>For >1000, Deduct</i>	-480.78	
26 56 19 00-0006 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) <small>(26 56 19 00-0002)</small>		
<small>Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.</small>		
26 56 19 00-0007 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,169.55	165.78
<i>For >50 To 100, Deduct</i>	-58.48	
<i>For >100 To 250, Deduct</i>	-87.72	
<i>For >250 To 500, Deduct</i>	-137.90	
<i>For >500 To 1000, Deduct</i>	-188.09	
<i>For >1000, Deduct</i>	-238.28	
26 56 19 00-0008 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,253.35	165.78
<i>For >50 To 100, Deduct</i>	-62.67	
<i>For >100 To 250, Deduct</i>	-94.00	
<i>For >250 To 500, Deduct</i>	-148.38	
<i>For >500 To 1000, Deduct</i>	-202.76	
<i>For >1000, Deduct</i>	-257.14	
26 56 19 00-0009 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,337.15	165.78
<i>For >50 To 100, Deduct</i>	-66.86	
<i>For >100 To 250, Deduct</i>	-100.29	
<i>For >250 To 500, Deduct</i>	-158.85	
<i>For >500 To 1000, Deduct</i>	-217.42	
<i>For >1000, Deduct</i>	-275.99	
26 56 19 00-0010 LED Roadway Lighting (Lithonia) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0011 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) <small>(26 56 19 00-0010)</small>		
<small>Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0012 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,354.79	156.82
<i>For >50 To 100, Deduct</i>	-117.74	
<i>For >100 To 250, Deduct</i>	-176.61	
<i>For >250 To 500, Deduct</i>	-286.51	
<i>For >500 To 1000, Deduct</i>	-396.41	
<i>For >1000, Deduct</i>	-506.30	
26 56 19 00-0013 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,903.54	161.30
<i>For >50 To 100, Deduct</i>	-195.18	
<i>For >100 To 250, Deduct</i>	-292.77	
<i>For >250 To 500, Deduct</i>	-479.88	
<i>For >500 To 1000, Deduct</i>	-666.99	
<i>For >1000, Deduct</i>	-854.10	
26 56 19 00-0014 LED Roadway Lighting (CREE® BetaLED®) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0015 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) <small>(26 56 19 00-0014)</small>		
<small>Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.</small>		
26 56 19 00-0016 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	956.99	152.34
<i>For >50 To 100, Deduct</i>	-47.85	
<i>For >100 To 250, Deduct</i>	-71.77	
<i>For >250 To 500, Deduct</i>	-112.01	
<i>For >500 To 1000, Deduct</i>	-152.24	
<i>For >1000, Deduct</i>	-192.47	
26 56 19 00-0017 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,076.57	156.82
<i>For >50 To 100, Deduct</i>	-53.83	
<i>For >100 To 250, Deduct</i>	-80.74	
<i>For >250 To 500, Deduct</i>	-126.73	
<i>For >500 To 1000, Deduct</i>	-172.72	
<i>For >1000, Deduct</i>	-218.71	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0018	EA		40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,220.96	161.30
			<i>For >50 To 100, Deduct</i>	-61.05	
			<i>For >100 To 250, Deduct</i>	-91.57	
			<i>For >250 To 500, Deduct</i>	-144.55	
			<i>For >500 To 1000, Deduct</i>	-197.54	
			<i>For >1000, Deduct</i>	-250.52	
26 56 19 00-0019	EA		50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,342.45	165.78
			<i>For >50 To 100, Deduct</i>	-67.12	
			<i>For >100 To 250, Deduct</i>	-100.68	
			<i>For >250 To 500, Deduct</i>	-159.52	
			<i>For >500 To 1000, Deduct</i>	-218.35	
			<i>For >1000, Deduct</i>	-277.18	
26 56 19 00-0020	EA		60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,463.94	170.26
			<i>For >50 To 100, Deduct</i>	-73.20	
			<i>For >100 To 250, Deduct</i>	-109.80	
			<i>For >250 To 500, Deduct</i>	-174.48	
			<i>For >500 To 1000, Deduct</i>	-239.16	
			<i>For >1000, Deduct</i>	-303.85	
26 56 19 00-0021	EA		70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,753.28	174.75
			<i>For >50 To 100, Deduct</i>	-87.66	
			<i>For >100 To 250, Deduct</i>	-131.50	
			<i>For >250 To 500, Deduct</i>	-210.42	
			<i>For >500 To 1000, Deduct</i>	-289.35	
			<i>For >1000, Deduct</i>	-368.28	
26 56 19 00-0022	EA		80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,874.77	179.23
			<i>For >50 To 100, Deduct</i>	-93.74	
			<i>For >100 To 250, Deduct</i>	-140.61	
			<i>For >250 To 500, Deduct</i>	-225.39	
			<i>For >500 To 1000, Deduct</i>	-310.16	
			<i>For >1000, Deduct</i>	-394.94	
26 56 19 00-0023	EA		90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,994.36	183.71
			<i>For >50 To 100, Deduct</i>	-99.72	
			<i>For >100 To 250, Deduct</i>	-149.58	
			<i>For >250 To 500, Deduct</i>	-240.11	
			<i>For >500 To 1000, Deduct</i>	-330.64	
			<i>For >1000, Deduct</i>	-421.18	
26 56 19 00-0024	EA		100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,228.38	188.19
			<i>For >50 To 100, Deduct</i>	-111.42	
			<i>For >100 To 250, Deduct</i>	-167.13	
			<i>For >250 To 500, Deduct</i>	-269.14	
			<i>For >500 To 1000, Deduct</i>	-371.15	
			<i>For >1000, Deduct</i>	-473.16	
26 56 19 00-0025	EA		110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,349.87	192.67
			<i>For >50 To 100, Deduct</i>	-117.49	
			<i>For >100 To 250, Deduct</i>	-176.24	
			<i>For >250 To 500, Deduct</i>	-284.10	
			<i>For >500 To 1000, Deduct</i>	-391.96	
			<i>For >1000, Deduct</i>	-499.82	
26 56 19 00-0026	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,471.37	197.15
			<i>For >50 To 100, Deduct</i>	-123.57	
			<i>For >100 To 250, Deduct</i>	-185.35	
			<i>For >250 To 500, Deduct</i>	-299.06	
			<i>For >500 To 1000, Deduct</i>	-412.78	
			<i>For >1000, Deduct</i>	-526.49	
26 56 19 00-0027			Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 19 00-0014)</small> Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028	EA		40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,917.13	161.30
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-95.86	
			<i>For >100 To 250, Deduct</i>	-143.78	
			<i>For >250 To 500, Deduct</i>	-231.58	
			<i>For >500 To 1000, Deduct</i>	-319.37	
			<i>For >1000, Deduct</i>	-407.16	
26 56 19 00-0029	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,215.43	170.26
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-110.77	
			<i>For >100 To 250, Deduct</i>	-166.16	
			<i>For >250 To 500, Deduct</i>	-268.42	
			<i>For >500 To 1000, Deduct</i>	-370.67	
			<i>For >1000, Deduct</i>	-472.93	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0030	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,513.73	179.23
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-125.69	
			<i>For >100 To 250, Deduct</i>	-188.53	
			<i>For >250 To 500, Deduct</i>	-305.26	
			<i>For >500 To 1000, Deduct</i>	-421.98	
			<i>For >1000, Deduct</i>	-538.71	
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,812.02	188.19
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-140.60	
			<i>For >100 To 250, Deduct</i>	-210.90	
			<i>For >250 To 500, Deduct</i>	-342.09	
			<i>For >500 To 1000, Deduct</i>	-473.29	
			<i>For >1000, Deduct</i>	-604.48	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,705.41	197.15
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-185.27	
			<i>For >100 To 250, Deduct</i>	-277.91	
			<i>For >250 To 500, Deduct</i>	-453.32	
			<i>For >500 To 1000, Deduct</i>	-628.73	
			<i>For >1000, Deduct</i>	-804.15	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	4,003.71	206.11
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-200.19	
			<i>For >100 To 250, Deduct</i>	-300.28	
			<i>For >250 To 500, Deduct</i>	-490.16	
			<i>For >500 To 1000, Deduct</i>	-680.04	
			<i>For >1000, Deduct</i>	-869.92	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	4,302.01	215.07
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-215.10	
			<i>For >100 To 250, Deduct</i>	-322.65	
			<i>For >250 To 500, Deduct</i>	-527.00	
			<i>For >500 To 1000, Deduct</i>	-731.34	
			<i>For >1000, Deduct</i>	-935.69	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0014)</small>		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	792.65	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Backlight Control Shield, Add</i>	37.40	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Bird Spikes, Add</i>	58.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Fuse, Add</i>	67.48	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-39.63	
			<i>For >100 To 250, Deduct</i>	-59.45	
			<i>For >250 To 500, Deduct</i>	-91.02	
			<i>For >500 To 1000, Deduct</i>	-122.58	
			<i>For >1000, Deduct</i>	-154.15	
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	792.65	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Backlight Control Shield, Add</i>	37.40	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Bird Spikes, Add</i>	58.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Fuse, Add</i>	67.48	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-39.63	
			<i>For >100 To 250, Deduct</i>	-59.45	
			<i>For >250 To 500, Deduct</i>	-91.02	
			<i>For >500 To 1000, Deduct</i>	-122.58	
			<i>For >1000, Deduct</i>	-154.15	
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	877.68	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Backlight Control Shield, Add</i>	37.40	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Bird Spikes, Add</i>	58.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For >50 To 100, Deduct</i>	-43.88	
			<i>For >100 To 250, Deduct</i>	-65.83	
			<i>For >250 To 500, Deduct</i>	-101.64	
			<i>For >500 To 1000, Deduct</i>	-137.46	
			<i>For >1000, Deduct</i>	-173.28	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	877.68	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Backlight Control Shield, Add</i>	37.40	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Bird Spikes, Add</i>	58.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For >50 To 100, Deduct</i>	-43.88	
			<i>For >100 To 250, Deduct</i>	-65.83	
			<i>For >250 To 500, Deduct</i>	-101.64	
			<i>For >500 To 1000, Deduct</i>	-137.46	
			<i>For >1000, Deduct</i>	-173.28	
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	1,028.84	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	53.91	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Fuse, Add</i>	67.48	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	96.45	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-51.44	
			<i>For >100 To 250, Deduct</i>	-77.16	
			<i>For >250 To 500, Deduct</i>	-120.54	
			<i>For >500 To 1000, Deduct</i>	-163.92	
			<i>For >1000, Deduct</i>	-207.29	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	1,028.84	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	53.91	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Fuse, Add</i>	67.48	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	96.45	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-51.44	
			<i>For >100 To 250, Deduct</i>	-77.16	
			<i>For >250 To 500, Deduct</i>	-120.54	
			<i>For >500 To 1000, Deduct</i>	-163.92	
			<i>For >1000, Deduct</i>	-207.29	
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,170.57	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	53.91	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	96.45	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For >50 To 100, Deduct</i>	-58.53	
			<i>For >100 To 250, Deduct</i>	-87.79	
			<i>For >250 To 500, Deduct</i>	-138.26	
			<i>For >500 To 1000, Deduct</i>	-188.72	
			<i>For >1000, Deduct</i>	-239.18	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,170.57	161.30
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	53.91	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	96.45	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For >50 To 100, Deduct</i>	-58.53	
			<i>For >100 To 250, Deduct</i>	-87.79	
			<i>For >250 To 500, Deduct</i>	-138.26	
			<i>For >500 To 1000, Deduct</i>	-188.72	
			<i>For >1000, Deduct</i>	-239.18	
26 56 19 00-0044	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	641.48	161.30
			<i>For Utility Label, Add</i>	11.24	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	33.75	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For >50 To 100, Deduct</i>	-32.07	
			<i>For >100 To 250, Deduct</i>	-48.11	
			<i>For >250 To 500, Deduct</i>	-72.12	
			<i>For >500 To 1000, Deduct</i>	-96.13	
			<i>For >1000, Deduct</i>	-120.14	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0045 EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	641.48	161.30
For Utility Label, Add	11.24	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	33.75	
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-32.07	
For >100 To 250, Deduct	-48.11	
For >250 To 500, Deduct	-72.12	
For >500 To 1000, Deduct	-96.13	
For >1000, Deduct	-120.14	
26 56 19 00-0046 EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	676.91	161.30
For Utility Label, Add	11.24	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	33.75	
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-33.85	
For >100 To 250, Deduct	-50.77	
For >250 To 500, Deduct	-76.55	
For >500 To 1000, Deduct	-102.33	
For >1000, Deduct	-128.11	
26 56 19 00-0047 EA 4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	676.91	161.30
For Utility Label, Add	11.24	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	33.75	
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-33.85	
For >100 To 250, Deduct	-50.77	
For >250 To 500, Deduct	-76.55	
For >500 To 1000, Deduct	-102.33	
For >1000, Deduct	-128.11	
26 56 19 00-0048 EA 4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	688.72	161.30
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Field Adjustable Output, Add	33.75	
For Field Adjustable Output And Utility Label, Add	44.99	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-34.44	
For >100 To 250, Deduct	-51.65	
For >250 To 500, Deduct	-78.02	
For >500 To 1000, Deduct	-104.40	
For >1000, Deduct	-130.77	
26 56 19 00-0049 EA 4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	688.72	161.30
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Field Adjustable Output, Add	33.75	
For Field Adjustable Output And Utility Label, Add	44.99	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-34.44	
For >100 To 250, Deduct	-51.65	
For >250 To 500, Deduct	-78.02	
For >500 To 1000, Deduct	-104.40	
For >1000, Deduct	-130.77	
26 56 19 00-0050 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
<small>(26 56 19 00-0014)</small>		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051 EA 3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	665.11	161.30
For Field Adjustable Output, Add	33.75	
For Backlight Control Shield, Add	72.37	
For Bird Spikes, Add	97.11	
For >50 To 100, Deduct	-33.26	
For >100 To 250, Deduct	-49.88	
For >250 To 500, Deduct	-75.07	
For >500 To 1000, Deduct	-100.26	
For >1000, Deduct	-125.45	
26 56 19 00-0052 EA 3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	665.11	161.30
For Field Adjustable Output, Add	33.75	
For Backlight Control Shield, Add	72.37	
For Bird Spikes, Add	97.11	
For >50 To 100, Deduct	-33.26	
For >100 To 250, Deduct	-49.88	
For >250 To 500, Deduct	-75.07	
For >500 To 1000, Deduct	-100.26	
For >1000, Deduct	-125.45	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 19 00-0053	EA	5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	688.72	161.30
		<i>For Field Adjustable Output, Add</i>	33.75	
		<i>For Backlight Control Shield, Add</i>	72.37	
		<i>For Bird Spikes, Add</i>	97.11	
		<i>For >50 To 100, Deduct</i>	-34.44	
		<i>For >100 To 250, Deduct</i>	-51.65	
		<i>For >250 To 500, Deduct</i>	-78.02	
		<i>For >500 To 1000, Deduct</i>	-104.40	
		<i>For >1000, Deduct</i>	-130.77	
26 56 19 00-0054	EA	5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	688.72	161.30
		<i>For Field Adjustable Output, Add</i>	33.75	
		<i>For Backlight Control Shield, Add</i>	72.37	
		<i>For Bird Spikes, Add</i>	97.11	
		<i>For >50 To 100, Deduct</i>	-34.44	
		<i>For >100 To 250, Deduct</i>	-51.65	
		<i>For >250 To 500, Deduct</i>	-78.02	
		<i>For >500 To 1000, Deduct</i>	-104.40	
		<i>For >1000, Deduct</i>	-130.77	
26 56 19 00-0055		LED Roadway Lighting (Cooper Lighting) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0056		Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 19 00-0055)</small>		
		Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA	1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,024.52	161.30
		<i>For >50 To 100, Deduct</i>	-51.23	
		<i>For >100 To 250, Deduct</i>	-76.84	
		<i>For >250 To 500, Deduct</i>	-120.00	
		<i>For >500 To 1000, Deduct</i>	-163.16	
		<i>For >1000, Deduct</i>	-206.32	
26 56 19 00-0058	EA	2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,392.69	179.23
		<i>For >50 To 100, Deduct</i>	-69.63	
		<i>For >100 To 250, Deduct</i>	-104.45	
		<i>For >250 To 500, Deduct</i>	-165.13	
		<i>For >500 To 1000, Deduct</i>	-225.80	
		<i>For >1000, Deduct</i>	-286.47	
26 56 19 00-0059	EA	3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,492.44	206.11
		<i>For >50 To 100, Deduct</i>	-74.62	
		<i>For >100 To 250, Deduct</i>	-111.93	
		<i>For >250 To 500, Deduct</i>	-176.25	
		<i>For >500 To 1000, Deduct</i>	-240.57	
		<i>For >1000, Deduct</i>	-304.88	
26 56 19 00-0060	EA	4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,229.11	224.03
		<i>For >50 To 100, Deduct</i>	-111.46	
		<i>For >100 To 250, Deduct</i>	-167.18	
		<i>For >250 To 500, Deduct</i>	-267.44	
		<i>For >500 To 1000, Deduct</i>	-367.69	
		<i>For >1000, Deduct</i>	-467.95	
26 56 19 00-0061	EA	6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,927.60	255.05
		<i>For >50 To 100, Deduct</i>	-146.38	
		<i>For >100 To 250, Deduct</i>	-219.57	
		<i>For >250 To 500, Deduct</i>	-353.20	
		<i>For >500 To 1000, Deduct</i>	-486.83	
		<i>For >1000, Deduct</i>	-620.45	
26 56 19 00-0062		LED Roadway Lighting (PlanLED) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0063		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) <small>(26 56 19 00-0062)</small>		
		Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0064	EA	8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W)	1,235.16	156.82
		<i>For >50 To 100, Deduct</i>	-61.76	
		<i>For >100 To 250, Deduct</i>	-92.64	
		<i>For >250 To 500, Deduct</i>	-146.55	
		<i>For >500 To 1000, Deduct</i>	-200.47	
		<i>For >1000, Deduct</i>	-254.39	
26 56 19 00-0065	EA	11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W)	1,344.77	158.54
		<i>For >50 To 100, Deduct</i>	-67.24	
		<i>For >100 To 250, Deduct</i>	-100.86	
		<i>For >250 To 500, Deduct</i>	-160.17	
		<i>For >500 To 1000, Deduct</i>	-219.48	
		<i>For >1000, Deduct</i>	-278.79	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0066 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W)	1,430.98	161.30
For >50 To 100, Deduct	-71.55	
For >100 To 250, Deduct	-107.32	
For >250 To 500, Deduct	-170.81	
For >500 To 1000, Deduct	-234.29	
For >1000, Deduct	-297.77	
26 56 19 00-0067 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) <small>(26 56 19 00-0062)</small>		
Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	809.28	153.03
For >50 To 100, Deduct	-40.46	
For >100 To 250, Deduct	-60.70	
For >250 To 500, Deduct	-93.51	
For >500 To 1000, Deduct	-126.32	
For >1000, Deduct	-159.13	
26 56 19 00-0069 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	867.88	155.79
For >50 To 100, Deduct	-43.39	
For >100 To 250, Deduct	-65.09	
For >250 To 500, Deduct	-100.70	
For >500 To 1000, Deduct	-136.30	
For >1000, Deduct	-171.91	
26 56 19 00-0070 EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	960.45	158.54
For >50 To 100, Deduct	-48.02	
For >100 To 250, Deduct	-72.03	
For >250 To 500, Deduct	-112.13	
For >500 To 1000, Deduct	-152.22	
For >1000, Deduct	-192.32	
26 56 19 00-0071 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) <small>(26 56 19 00-0062)</small>		
Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072 EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	1,022.03	158.54
For 0 To 10 Volt Dimming, Add	91.72	
For 347-480 Volt, Add	91.72	
For >50 To 100, Deduct	-51.10	
For >100 To 250, Deduct	-76.65	
For >250 To 500, Deduct	-119.83	
For >500 To 1000, Deduct	-163.00	
For >1000, Deduct	-206.18	
26 56 19 00-0073 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	1,135.20	159.92
For 0 To 10 Volt Dimming, Add	91.72	
For 347-480 Volt, Add	27.67	
For >50 To 100, Deduct	-56.76	
For >100 To 250, Deduct	-85.14	
For >250 To 500, Deduct	-133.90	
For >500 To 1000, Deduct	-182.67	
For >1000, Deduct	-231.43	
26 56 19 00-0074 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	1,222.89	161.30
For 0 To 10 Volt Dimming, Add	91.72	
For 347-480 Volt, Add	114.64	
For >50 To 100, Deduct	-61.14	
For >100 To 250, Deduct	-91.72	
For >250 To 500, Deduct	-144.80	
For >500 To 1000, Deduct	-197.88	
For >1000, Deduct	-250.95	
26 56 19 00-0075 LED Roadway Lighting (General Electric) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0076 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) <small>(26 56 19 00-0075)</small>		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	614.79	152.34
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-30.74	
For >100 To 250, Deduct	-46.11	
For >250 To 500, Deduct	-69.23	
For >500 To 1000, Deduct	-92.35	
For >1000, Deduct	-115.48	
26 56 19 00-0078 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	618.93	154.41
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-30.95	
For >100 To 250, Deduct	-46.42	
For >250 To 500, Deduct	-69.65	
For >500 To 1000, Deduct	-92.87	
For >1000, Deduct	-116.10	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0079	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY).....	645.21	156.82
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-32.26	
			<i>For >100 To 250, Deduct</i>	-48.39	
			<i>For >250 To 500, Deduct</i>	-72.81	
			<i>For >500 To 1000, Deduct</i>	-97.23	
			<i>For >1000, Deduct</i>	-121.65	
26 56 19 00-0080	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....	672.06	158.54
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-33.60	
			<i>For >100 To 250, Deduct</i>	-50.40	
			<i>For >250 To 500, Deduct</i>	-76.08	
			<i>For >500 To 1000, Deduct</i>	-101.76	
			<i>For >1000, Deduct</i>	-127.43	
26 56 19 00-0081	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....	743.32	161.99
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-37.17	
			<i>For >100 To 250, Deduct</i>	-55.75	
			<i>For >250 To 500, Deduct</i>	-84.82	
			<i>For >500 To 1000, Deduct</i>	-113.88	
			<i>For >1000, Deduct</i>	-142.95	
26 56 19 00-0082	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	781.18	163.37
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-39.06	
			<i>For >100 To 250, Deduct</i>	-58.59	
			<i>For >250 To 500, Deduct</i>	-89.48	
			<i>For >500 To 1000, Deduct</i>	-120.37	
			<i>For >1000, Deduct</i>	-151.26	
26 56 19 00-0083	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	852.33	165.78
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-42.62	
			<i>For >100 To 250, Deduct</i>	-63.92	
			<i>For >250 To 500, Deduct</i>	-98.25	
			<i>For >500 To 1000, Deduct</i>	-132.58	
			<i>For >1000, Deduct</i>	-166.91	
26 56 19 00-0084	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,003.67	170.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-50.18	
			<i>For >100 To 250, Deduct</i>	-75.28	
			<i>For >250 To 500, Deduct</i>	-116.95	
			<i>For >500 To 1000, Deduct</i>	-158.62	
			<i>For >1000, Deduct</i>	-200.29	
26 56 19 00-0085	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,177.62	179.23
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For >50 To 100, Deduct</i>	-58.88	
			<i>For >100 To 250, Deduct</i>	-88.32	
			<i>For >250 To 500, Deduct</i>	-138.24	
			<i>For >500 To 1000, Deduct</i>	-188.16	
			<i>For >1000, Deduct</i>	-238.08	

26 56 19 00-0086 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)

26 56 19 00-0087 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)

Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.

26 56 19 00-0088	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,196.94	156.82
			<i>For >50 To 100, Deduct</i>	-59.85	
			<i>For >100 To 250, Deduct</i>	-89.77	
			<i>For >250 To 500, Deduct</i>	-141.78	
			<i>For >500 To 1000, Deduct</i>	-193.78	
			<i>For >1000, Deduct</i>	-245.79	
26 56 19 00-0089	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,489.16	161.30
			<i>For >50 To 100, Deduct</i>	-74.46	
			<i>For >100 To 250, Deduct</i>	-111.69	
			<i>For >250 To 500, Deduct</i>	-178.08	
			<i>For >500 To 1000, Deduct</i>	-244.47	
			<i>For >1000, Deduct</i>	-310.87	
26 56 19 00-0090	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	2,081.54	165.78
			<i>For >50 To 100, Deduct</i>	-104.08	
			<i>For >100 To 250, Deduct</i>	-156.12	
			<i>For >250 To 500, Deduct</i>	-251.90	
			<i>For >500 To 1000, Deduct</i>	-347.69	
			<i>For >1000, Deduct</i>	-443.48	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0091	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,677.89	172.33
			<i>For >50 To 100, Deduct</i>	-133.89	
			<i>For >100 To 250, Deduct</i>	-200.84	
			<i>For >250 To 500, Deduct</i>	-326.12	
			<i>For >500 To 1000, Deduct</i>	-451.40	
			<i>For >1000, Deduct</i>	-576.68	
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,260.86	177.16
			<i>For >50 To 100, Deduct</i>	-163.04	
			<i>For >100 To 250, Deduct</i>	-244.56	
			<i>For >250 To 500, Deduct</i>	-398.75	
			<i>For >500 To 1000, Deduct</i>	-552.93	
			<i>For >1000, Deduct</i>	-707.12	
26 56 19 00-0093			LED Roadway Lighting (Leotek) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) <small>(26 56 19 00-0093)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	629.02	156.82
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-31.45	
			<i>For >100 To 250, Deduct</i>	-47.18	
			<i>For >250 To 500, Deduct</i>	-70.79	
			<i>For >500 To 1000, Deduct</i>	-94.40	
			<i>For >1000, Deduct</i>	-118.01	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	642.71	158.54
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-32.14	
			<i>For >100 To 250, Deduct</i>	-48.20	
			<i>For >250 To 500, Deduct</i>	-72.41	
			<i>For >500 To 1000, Deduct</i>	-96.62	
			<i>For >1000, Deduct</i>	-120.83	
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	685.74	159.58
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-34.29	
			<i>For >100 To 250, Deduct</i>	-51.43	
			<i>For >250 To 500, Deduct</i>	-77.74	
			<i>For >500 To 1000, Deduct</i>	-104.05	
			<i>For >1000, Deduct</i>	-130.35	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	796.45	165.78
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-39.82	
			<i>For >100 To 250, Deduct</i>	-59.73	
			<i>For >250 To 500, Deduct</i>	-91.27	
			<i>For >500 To 1000, Deduct</i>	-122.80	
			<i>For >1000, Deduct</i>	-154.33	
26 56 19 00-0099	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	932.38	170.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-46.62	
			<i>For >100 To 250, Deduct</i>	-69.93	
			<i>For >250 To 500, Deduct</i>	-108.03	
			<i>For >500 To 1000, Deduct</i>	-146.14	
			<i>For >1000, Deduct</i>	-184.25	
26 56 19 00-0100	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	937.89	173.02
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.75	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.26	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	52.35	
			<i>For >50 To 100, Deduct</i>	-46.89	
			<i>For >100 To 250, Deduct</i>	-70.34	
			<i>For >250 To 500, Deduct</i>	-108.59	
			<i>For >500 To 1000, Deduct</i>	-146.83	
			<i>For >1000, Deduct</i>	-185.07	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 19 00-0101	EA Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL)	1,150.25	175.78
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-57.51	
	For >100 To 250, Deduct	-86.27	
	For >250 To 500, Deduct	-134.99	
	For >500 To 1000, Deduct	-183.72	
	For >1000, Deduct	-232.44	
26 56 19 00-0102	EA Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL)	1,206.29	179.23
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-60.31	
	For >100 To 250, Deduct	-90.47	
	For >250 To 500, Deduct	-141.83	
	For >500 To 1000, Deduct	-193.18	
	For >1000, Deduct	-244.53	
26 56 19 00-0103	EA Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	1,346.96	181.99
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-67.35	
	For >100 To 250, Deduct	-101.02	
	For >250 To 500, Deduct	-159.27	
	For >500 To 1000, Deduct	-217.52	
	For >1000, Deduct	-275.77	
26 56 19 00-0104	EA Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	1,444.64	184.74
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-72.23	
	For >100 To 250, Deduct	-108.35	
	For >250 To 500, Deduct	-171.34	
	For >500 To 1000, Deduct	-234.34	
	For >1000, Deduct	-297.33	
26 56 19 00-0105	EA Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	728.72	158.54
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-36.44	
	For >100 To 250, Deduct	-54.65	
	For >250 To 500, Deduct	-83.16	
	For >500 To 1000, Deduct	-111.67	
	For >1000, Deduct	-140.18	
26 56 19 00-0106	EA Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	800.48	162.69
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-40.02	
	For >100 To 250, Deduct	-60.04	
	For >250 To 500, Deduct	-91.93	
	For >500 To 1000, Deduct	-123.82	
	For >1000, Deduct	-155.71	
26 56 19 00-0107	EA Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	864.03	165.78
	For LightGrid™ Wireless Outdoor Controller, Add	20.00	
	For Twist Lock Shorting Cap, Add	9.75	
	For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
	For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
	For >50 To 100, Deduct	-43.20	
	For >100 To 250, Deduct	-64.80	
	For >250 To 500, Deduct	-99.71	
	For >500 To 1000, Deduct	-134.63	
	For >1000, Deduct	-169.54	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0108 EA Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL)	918.71	169.57
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-45.94	
For >100 To 250, Deduct	-68.90	
For >250 To 500, Deduct	-106.36	
For >500 To 1000, Deduct	-143.82	
For >1000, Deduct	-181.27	
26 56 19 00-0109 EA Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL)	974.72	170.95
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-48.74	
For >100 To 250, Deduct	-73.10	
For >250 To 500, Deduct	-113.29	
For >500 To 1000, Deduct	-153.48	
For >1000, Deduct	-193.67	
26 56 19 00-0110 EA Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL)	1,161.20	177.16
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-58.06	
For >100 To 250, Deduct	-87.09	
For >250 To 500, Deduct	-136.29	
For >500 To 1000, Deduct	-185.49	
For >1000, Deduct	-234.70	
26 56 19 00-0111 EA Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL)	1,313.49	180.61
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-65.67	
For >100 To 250, Deduct	-98.51	
For >250 To 500, Deduct	-155.16	
For >500 To 1000, Deduct	-211.80	
For >1000, Deduct	-268.44	
26 56 19 00-0112 EA Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL)	1,396.78	181.29
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-69.84	
For >100 To 250, Deduct	-104.76	
For >250 To 500, Deduct	-165.53	
For >500 To 1000, Deduct	-226.31	
For >1000, Deduct	-287.08	
26 56 19 00-0113 EA Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL)	1,476.70	183.36
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-73.84	
For >100 To 250, Deduct	-110.75	
For >250 To 500, Deduct	-175.42	
For >500 To 1000, Deduct	-240.09	
For >1000, Deduct	-304.75	
26 56 19 00-0114 EA Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP)	782.25	173.02
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.75	
For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
For >50 To 100, Deduct	-39.11	
For >100 To 250, Deduct	-58.67	
For >250 To 500, Deduct	-89.13	
For >500 To 1000, Deduct	-119.59	
For >1000, Deduct	-150.05	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56	19 00-0115	EA Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	847.13	174.75
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-42.36	
		For >100 To 250, Deduct	-63.53	
		For >250 To 500, Deduct	-97.15	
		For >500 To 1000, Deduct	-130.77	
		For >1000, Deduct	-164.39	
26 56	19 00-0116	EA Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	601.06	158.21
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-30.05	
		For >100 To 250, Deduct	-45.08	
		For >250 To 500, Deduct	-67.22	
		For >500 To 1000, Deduct	-89.37	
		For >1000, Deduct	-111.51	
26 56	19 00-0117	EA Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	612.01	159.58
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-30.60	
		For >100 To 250, Deduct	-45.90	
		For >250 To 500, Deduct	-68.52	
		For >500 To 1000, Deduct	-91.14	
		For >1000, Deduct	-113.77	
26 56	19 00-0118	EA Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL)	665.31	162.69
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-33.27	
		For >100 To 250, Deduct	-49.90	
		For >250 To 500, Deduct	-75.03	
		For >500 To 1000, Deduct	-100.16	
		For >1000, Deduct	-125.29	
26 56	19 00-0119	EA Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL)	1,025.33	175.78
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-51.27	
		For >100 To 250, Deduct	-76.90	
		For >250 To 500, Deduct	-119.38	
		For >500 To 1000, Deduct	-161.85	
		For >1000, Deduct	-204.33	
26 56	19 00-0120	EA Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL)	1,339.44	181.29
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-66.97	
		For >100 To 250, Deduct	-100.46	
		For >250 To 500, Deduct	-158.37	
		For >500 To 1000, Deduct	-216.27	
		For >1000, Deduct	-274.18	
26 56	19 00-0121	EA Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL)	1,193.37	181.99
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-59.67	
		For >100 To 250, Deduct	-89.50	
		For >250 To 500, Deduct	-140.07	
		For >500 To 1000, Deduct	-190.64	
		For >1000, Deduct	-241.21	
26 56	19 00-0122	EA Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY)	577.18	158.54
		For Twist Lock Shorting Cap, Add	9.75	
		For ANSI 7-wire Photocontrol Receptacle, Add	29.26	
		For Ripley Long-Life Twist Lock Photocontrol, Add	52.35	
		For >50 To 100, Deduct	-28.86	
		For >100 To 250, Deduct	-43.29	
		For >250 To 500, Deduct	-64.22	
		For >500 To 1000, Deduct	-85.15	
		For >1000, Deduct	-106.08	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0123 LED, Wall Packs <small>(26 56 19)</small>		
26 56 19 00-0124 Full Cutoff, LED Wall Packs <small>(26 56 19 00-0123)</small>		
26 56 19 00-0125 Full Cutoff, LED Wall Packs (Lithonia) <small>(26 56 19 00-0124)</small>		
26 56 19 00-0126 EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	968.83	120.64
For >50 To 100, Deduct	-48.44	
For >100 To 250, Deduct	-72.66	
For >250 To 500, Deduct	-115.07	
For >500 To 1000, Deduct	-157.48	
For >1000, Deduct	-199.89	
26 56 19 00-0127 EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,047.81	120.64
For >50 To 100, Deduct	-52.39	
For >100 To 250, Deduct	-78.59	
For >250 To 500, Deduct	-124.94	
For >500 To 1000, Deduct	-171.30	
For >1000, Deduct	-217.66	
26 56 19 00-0128 Full Cutoff, LED Wall Packs (CREE® BetaLED®) <small>(26 56 19 00-0124)</small>		
26 56 19 00-0129 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <small>(26 56 19 00-0128)</small>		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0130 EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,049.26	117.19
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Bird Spikes, Add	54.23	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-52.46	
For >100 To 250, Deduct	-78.69	
For >250 To 500, Deduct	-125.30	
For >500 To 1000, Deduct	-171.90	
For >1000, Deduct	-218.51	
26 56 19 00-0131 EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,358.30	124.08
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Bird Spikes, Add	54.92	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-67.92	
For >100 To 250, Deduct	-101.87	
For >250 To 500, Deduct	-163.58	
For >500 To 1000, Deduct	-225.29	
For >1000, Deduct	-287.01	
26 56 19 00-0132 EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,524.59	130.98
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Bird Spikes, Add	55.61	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-76.23	
For >100 To 250, Deduct	-114.34	
For >250 To 500, Deduct	-184.03	
For >500 To 1000, Deduct	-253.71	
For >1000, Deduct	-323.39	
26 56 19 00-0133 EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,976.38	137.86
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Bird Spikes, Add	56.30	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-98.82	
For >100 To 250, Deduct	-148.23	
For >250 To 500, Deduct	-240.15	
For >500 To 1000, Deduct	-332.08	
For >1000, Deduct	-424.01	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0134	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	2,285.42	144.76
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Bird Spikes, Add</i>	56.99	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-114.27	
			<i>For >100 To 250, Deduct</i>	-171.41	
			<i>For >250 To 500, Deduct</i>	-278.44	
			<i>For >500 To 1000, Deduct</i>	-385.47	
			<i>For >1000, Deduct</i>	-492.51	
26 56 19 00-0135	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	2,594.47	151.65
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Bird Spikes, Add</i>	57.68	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For >50 To 100, Deduct</i>	-129.72	
			<i>For >100 To 250, Deduct</i>	-194.59	
			<i>For >250 To 500, Deduct</i>	-316.73	
			<i>For >500 To 1000, Deduct</i>	-438.87	
			<i>For >1000, Deduct</i>	-561.01	
26 56 19 00-0136			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) ^(26 56 19 00-0128) <small>Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0137	EA		25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	610.82	117.19
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	67.48	
			<i>For >50 To 100, Deduct</i>	-30.54	
			<i>For >100 To 250, Deduct</i>	-45.81	
			<i>For >250 To 500, Deduct</i>	-70.49	
			<i>For >500 To 1000, Deduct</i>	-95.18	
			<i>For >1000, Deduct</i>	-119.86	
26 56 19 00-0138	EA		42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	712.44	124.08
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	67.48	
			<i>For >50 To 100, Deduct</i>	-35.62	
			<i>For >100 To 250, Deduct</i>	-53.43	
			<i>For >250 To 500, Deduct</i>	-82.85	
			<i>For >500 To 1000, Deduct</i>	-112.27	
			<i>For >1000, Deduct</i>	-141.69	
26 56 19 00-0139			Full Cutoff, LED Wall Packs (McGraw-Edison) ^(26 56 19 00-0124)		
26 56 19 00-0140	EA		One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,296.10	117.19
26 56 19 00-0141	EA		Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,611.34	124.08
26 56 19 00-0142	EA		One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,311.61	117.19
26 56 19 00-0143	EA		Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,753.20	124.08
26 56 19 00-0144			Open Face LED Wall Pack ^(26 56 19 00-0123) <small>Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass</small>		
26 56 19 00-0145	EA		3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	751.09	122.44
			<i>For >50 To 100, Deduct</i>	-37.55	
			<i>For >100 To 250, Deduct</i>	-56.33	
			<i>For >250 To 500, Deduct</i>	-84.70	
			<i>For >500 To 1000, Deduct</i>	-113.07	
			<i>For >1000, Deduct</i>	-141.44	
26 56 19 00-0146	EA		5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	807.86	122.44
			<i>For >50 To 100, Deduct</i>	-40.39	
			<i>For >100 To 250, Deduct</i>	-60.59	
			<i>For >250 To 500, Deduct</i>	-91.80	
			<i>For >500 To 1000, Deduct</i>	-123.01	
			<i>For >1000, Deduct</i>	-154.22	
26 56 19 00-0147	EA		7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	837.59	122.44
			<i>For >50 To 100, Deduct</i>	-41.88	
			<i>For >100 To 250, Deduct</i>	-62.82	
			<i>For >250 To 500, Deduct</i>	-95.52	
			<i>For >500 To 1000, Deduct</i>	-128.21	
			<i>For >1000, Deduct</i>	-160.91	
26 56 19 00-0148	EA		11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	861.71	122.44
			<i>For >50 To 100, Deduct</i>	-43.09	
			<i>For >100 To 250, Deduct</i>	-64.63	
			<i>For >250 To 500, Deduct</i>	-98.53	
			<i>For >500 To 1000, Deduct</i>	-132.43	
			<i>For >1000, Deduct</i>	-166.33	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0149 EA 16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	1,042.58	122.44
<i>For >50 To 100, Deduct</i>	-52.13	
<i>For >100 To 250, Deduct</i>	-78.19	
<i>For >250 To 500, Deduct</i>	-121.14	
<i>For >500 To 1000, Deduct</i>	-164.08	
<i>For >1000, Deduct</i>	-207.03	
26 56 19 00-0150 Wall Pack Accessories <small>(26 56 19 00-0123)</small>		
26 56 19 00-0151 EA Photocell For Wall Pack.....	139.34	30.61
26 56 19 00-0152 EA Wire Guard For Mini And Small Wall Pack	155.67	30.61
26 56 19 00-0153 EA Wire Guard For Medium And Large Wall Pack.....	223.96	30.61
26 56 19 00-0154 EA Clear Polycarbonate Vandal Guard For Wall Packs	322.51	30.61
26 56 19 00-0155 EA Full Cutoff Visor For Wall Pack.....	151.22	30.61
26 56 19 00-0156 LED, Pole Mounted <small>(26 56 19)</small>		
26 56 19 00-0157 LED, Pole Mounted (Dialight) <small>(26 56 19 00-0156)</small>		
26 56 19 00-0158 EA 131 Watt, Enclosed And Gasketed, Exterior LED Roadway Fixture (Dialight SL2C4ELGH).....	2,000.05	197.15
<i>For >50 To 100, Deduct</i>	-100.00	
<i>For >100 To 250, Deduct</i>	-150.00	
<i>For >250 To 500, Deduct</i>	-240.15	
<i>For >500 To 1000, Deduct</i>	-330.29	
<i>For >1000, Deduct</i>	-420.44	
26 56 19 00-0159 LED, Pole Mounted (LED-Era) <small>(26 56 19 00-0156)</small>		
26 56 19 00-0160 EA 88 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5).....	2,489.08	179.23
<i>For >50 To 100, Deduct</i>	-124.45	
<i>For >100 To 250, Deduct</i>	-186.68	
<i>For >250 To 500, Deduct</i>	-302.17	
<i>For >500 To 1000, Deduct</i>	-417.67	
<i>For >1000, Deduct</i>	-533.16	
26 56 19 00-0161 EA 124 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7).....	2,963.96	197.15
<i>For >50 To 100, Deduct</i>	-148.20	
<i>For >100 To 250, Deduct</i>	-222.30	
<i>For >250 To 500, Deduct</i>	-360.64	
<i>For >500 To 1000, Deduct</i>	-498.98	
<i>For >1000, Deduct</i>	-637.32	
26 56 19 00-0162 LED, Pole Mounted (Lighting Science Group) <small>(26 56 19 00-0156)</small>		
26 56 19 00-0163 EA 50 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,815.34	161.30
<i>For >50 To 100, Deduct</i>	-90.77	
<i>For >100 To 250, Deduct</i>	-136.15	
<i>For >250 To 500, Deduct</i>	-218.85	
<i>For >500 To 1000, Deduct</i>	-301.55	
<i>For >1000, Deduct</i>	-384.26	
26 56 19 00-0164 EA 75 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,851.18	179.23
<i>For >50 To 100, Deduct</i>	-92.56	
<i>For >100 To 250, Deduct</i>	-138.84	
<i>For >250 To 500, Deduct</i>	-222.44	
<i>For >500 To 1000, Deduct</i>	-306.03	
<i>For >1000, Deduct</i>	-389.63	
26 56 19 00-0165 EA 100 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B)	2,003.40	188.19
<i>For >50 To 100, Deduct</i>	-100.17	
<i>For >100 To 250, Deduct</i>	-150.26	
<i>For >250 To 500, Deduct</i>	-241.02	
<i>For >500 To 1000, Deduct</i>	-331.78	
<i>For >1000, Deduct</i>	-422.54	
26 56 19 00-0166 EA 100 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B)	2,003.40	188.19
<i>For >50 To 100, Deduct</i>	-100.17	
<i>For >100 To 250, Deduct</i>	-150.26	
<i>For >250 To 500, Deduct</i>	-241.02	
<i>For >500 To 1000, Deduct</i>	-331.78	
<i>For >1000, Deduct</i>	-422.54	
26 56 19 00-0167 EA 150 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B)	2,039.25	206.11
<i>For >50 To 100, Deduct</i>	-101.96	
<i>For >100 To 250, Deduct</i>	-152.94	
<i>For >250 To 500, Deduct</i>	-244.60	
<i>For >500 To 1000, Deduct</i>	-336.26	
<i>For >1000, Deduct</i>	-427.91	
26 56 19 00-0168 EA 150 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B)	2,039.25	206.11
<i>For >50 To 100, Deduct</i>	-101.96	
<i>For >100 To 250, Deduct</i>	-152.94	
<i>For >250 To 500, Deduct</i>	-244.60	
<i>For >500 To 1000, Deduct</i>	-336.26	
<i>For >1000, Deduct</i>	-427.91	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 19 00-0169	EA 86 Watt, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	2,393.52	179.23
	<i>For >50 To 100, Deduct</i>	-119.68	
	<i>For >100 To 250, Deduct</i>	-179.51	
	<i>For >250 To 500, Deduct</i>	-290.23	
	<i>For >500 To 1000, Deduct</i>	-400.94	
	<i>For >1000, Deduct</i>	-511.66	
26 56 19 00-0170	LED, Area Fixtures ^(26 56 19)		
26 56 19 00-0171	Pole Mount, LED Area Fixtures ^(26 56 19 00-0170)		
26 56 19 00-0172	Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) ^(26 56 19 00-0171)		
	Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0173	EA 20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,493.67	117.19
	<i>For >50 To 100, Deduct</i>	-124.68	
	<i>For >100 To 250, Deduct</i>	-187.03	
	<i>For >250 To 500, Deduct</i>	-305.85	
	<i>For >500 To 1000, Deduct</i>	-424.67	
	<i>For >1000, Deduct</i>	-543.50	
26 56 19 00-0174	EA 40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,688.21	124.08
	<i>For >50 To 100, Deduct</i>	-134.41	
	<i>For >100 To 250, Deduct</i>	-201.62	
	<i>For >250 To 500, Deduct</i>	-329.82	
	<i>For >500 To 1000, Deduct</i>	-458.03	
	<i>For >1000, Deduct</i>	-586.24	
26 56 19 00-0175	EA 80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,896.52	137.86
	<i>For >50 To 100, Deduct</i>	-144.83	
	<i>For >100 To 250, Deduct</i>	-217.24	
	<i>For >250 To 500, Deduct</i>	-355.17	
	<i>For >500 To 1000, Deduct</i>	-493.10	
	<i>For >1000, Deduct</i>	-631.04	
26 56 19 00-0176	EA 100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,910.31	144.76
	<i>For >50 To 100, Deduct</i>	-145.52	
	<i>For >100 To 250, Deduct</i>	-218.27	
	<i>For >250 To 500, Deduct</i>	-356.55	
	<i>For >500 To 1000, Deduct</i>	-494.83	
	<i>For >1000, Deduct</i>	-633.11	
26 56 19 00-0177	Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) ^(26 56 19 00-0171)		
	Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0178	EA 40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,415.44	124.08
	<i>For Backlight Shielding, Add</i>	26.70	
	<i>For Type II Medium Optic, Add</i>	44.47	
	<i>For 347-480 Volt, Add</i>	107.78	
	<i>For Multi-Level Drive Currents, Add</i>	267.03	
	<i>For >50 To 100, Deduct</i>	-70.77	
	<i>For >100 To 250, Deduct</i>	-106.16	
	<i>For >250 To 500, Deduct</i>	-170.73	
	<i>For >500 To 1000, Deduct</i>	-235.29	
	<i>For >1000, Deduct</i>	-299.86	
26 56 19 00-0179	EA 60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,709.60	130.98
	<i>For Backlight Shielding, Add</i>	26.70	
	<i>For Type II Medium Optic, Add</i>	45.16	
	<i>For 347-480 Volt, Add</i>	107.78	
	<i>For Multi-Level Drive Currents, Add</i>	267.03	
	<i>For >50 To 100, Deduct</i>	-85.48	
	<i>For >100 To 250, Deduct</i>	-128.22	
	<i>For >250 To 500, Deduct</i>	-207.15	
	<i>For >500 To 1000, Deduct</i>	-286.08	
	<i>For >1000, Deduct</i>	-365.01	
26 56 19 00-0180	EA 80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,116.30	137.86
	<i>For Backlight Shielding, Add</i>	26.70	
	<i>For Type II Medium Optic, Add</i>	45.85	
	<i>For 347-480 Volt, Add</i>	107.78	
	<i>For Multi-Level Drive Currents, Add</i>	267.03	
	<i>For >50 To 100, Deduct</i>	-105.82	
	<i>For >100 To 250, Deduct</i>	-158.72	
	<i>For >250 To 500, Deduct</i>	-257.64	
	<i>For >500 To 1000, Deduct</i>	-356.57	
	<i>For >1000, Deduct</i>	-455.49	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0181 EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,410.47	144.76
For Backlight Shielding, Add	26.70	
For Type II Medium Optic, Add	46.54	
For 347-480 Volt, Add	107.78	
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-120.52	
For >100 To 250, Deduct	-180.79	
For >250 To 500, Deduct	-294.07	
For >500 To 1000, Deduct	-407.36	
For >1000, Deduct	-520.64	
26 56 19 00-0182 EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,704.63	151.65
For Backlight Shielding, Add	26.70	
For Type II Medium Optic, Add	47.23	
For 347-480 Volt, Add	107.78	
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-135.23	
For >100 To 250, Deduct	-202.85	
For >250 To 500, Deduct	-330.50	
For >500 To 1000, Deduct	-458.14	
For >1000, Deduct	-585.79	
26 56 19 00-0183 EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	3,088.43	158.54
For Backlight Shielding, Add	26.70	
For Type II Medium Optic, Add	47.91	
For 347-480 Volt, Add	107.78	
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-154.42	
For >100 To 250, Deduct	-231.63	
For >250 To 500, Deduct	-378.13	
For >500 To 1000, Deduct	-524.62	
For >1000, Deduct	-671.12	
26 56 19 00-0184 EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	3,382.59	165.44
For Backlight Shielding, Add	26.70	
For Type II Medium Optic, Add	48.60	
For 347-480 Volt, Add	107.78	
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-169.13	
For >100 To 250, Deduct	-253.69	
For >250 To 500, Deduct	-414.55	
For >500 To 1000, Deduct	-575.41	
For >1000, Deduct	-736.27	
26 56 19 00-0185 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) <small>(26 56 19 00-0171)</small>		
<small>Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0186 EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	2,497.61	151.65
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Bird Spikes, Add	50.61	
For 5,000K Color Temperature, Add	56.24	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For 1,000mA Driver, Add	188.98	
For >50 To 100, Deduct	-124.88	
For >100 To 250, Deduct	-187.32	
For >250 To 500, Deduct	-304.62	
For >500 To 1000, Deduct	-421.92	
For >1000, Deduct	-539.21	
26 56 19 00-0187 EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	4,219.96	186.12
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For 5,000K Color Temperature, Add	56.24	
For Fuse, Add	67.48	
For 0 To 10 Volt Dimming, Add	67.48	
For Bird Spikes, Add	75.31	
For Multi-Level, Add	146.21	
For 1,000mA Driver, Add	188.96	
For 480 Volt, Add	202.45	
For >50 To 100, Deduct	-211.00	
For >100 To 250, Deduct	-316.50	
For >250 To 500, Deduct	-518.19	
For >500 To 1000, Deduct	-719.88	
For >1000, Deduct	-921.57	
26 56 19 00-0188 Wall Mount, LED Area Fixtures <small>(26 56 19 00-0170)</small>		
26 56 19 00-0189 Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) <small>(26 56 19 00-0188)</small>		
<small>Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.</small>		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0190	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,103.75 -55.19 -82.78 -132.11 -181.44 -230.77	117.19
26 56 19 00-0191	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,131.32 -56.57 -84.85 -134.87 -184.88 -234.90	130.98
26 56 19 00-0192			Surface Mount, LED Parking Structure Fixtures <small>(26 56 19 00-0170)</small>		
26 56 19 00-0193			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) <small>(26 56 19 00-0192)</small> Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0194	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,247.60 267.03 -62.38 -93.57 -149.75 -205.92 -262.10	124.08
26 56 19 00-0195	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,541.76 267.03 -77.09 -115.63 -186.17 -256.71 -327.25	130.98
26 56 19 00-0196	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,835.92 267.03 -91.80 -137.69 -222.60 -307.50 -392.40	137.86
26 56 19 00-0197	EA		100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	2,130.09 267.03 -106.50 -159.76 -259.02 -358.29 -457.56	144.76
26 56 19 00-0198			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) <small>(26 56 19 00-0192)</small> Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0199	EA		40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,201.82 267.03 -60.09 -90.14 -144.02 -197.91 -251.80	124.08
26 56 19 00-0200	EA		60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304)..... <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,328.13 267.03 -66.41 -99.61 -159.47 -219.33 -279.18	130.98
26 56 19 00-0201			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) <small>(26 56 19 00-0192)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0202 EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	1,006.18	124.08
<i>For >50 To 100, Deduct</i>	-50.31	
<i>For >100 To 250, Deduct</i>	-75.46	
<i>For >250 To 500, Deduct</i>	-119.57	
<i>For >500 To 1000, Deduct</i>	-163.67	
<i>For >1000, Deduct</i>	-207.78	
26 56 19 00-0203 Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) <small>(26 56 19 00-0192)</small>		
<small>Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.</small>		
26 56 19 00-0204 EA 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,000.35	130.98
<i>For >50 To 100, Deduct</i>	-100.02	
<i>For >100 To 250, Deduct</i>	-150.03	
<i>For >250 To 500, Deduct</i>	-243.50	
<i>For >500 To 1000, Deduct</i>	-336.96	
<i>For >1000, Deduct</i>	-430.43	
26 56 19 00-0205 EA 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,027.93	144.76
<i>For >50 To 100, Deduct</i>	-101.40	
<i>For >100 To 250, Deduct</i>	-152.09	
<i>For >250 To 500, Deduct</i>	-246.25	
<i>For >500 To 1000, Deduct</i>	-340.41	
<i>For >1000, Deduct</i>	-434.57	
26 56 19 00-0206 Surface Mount, LED Canopy Fixtures <small>(26 56 19 00-0170)</small>		
26 56 19 00-0207 Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 19 00-0206)</small>		
<small>Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0208 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,449.77	124.08
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-72.49	
<i>For >100 To 250, Deduct</i>	-108.73	
<i>For >250 To 500, Deduct</i>	-175.02	
<i>For >500 To 1000, Deduct</i>	-241.30	
<i>For >1000, Deduct</i>	-307.59	
26 56 19 00-0209 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,743.93	130.98
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-87.20	
<i>For >100 To 250, Deduct</i>	-130.79	
<i>For >250 To 500, Deduct</i>	-211.44	
<i>For >500 To 1000, Deduct</i>	-292.09	
<i>For >1000, Deduct</i>	-372.74	
26 56 19 00-0210 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	2,038.10	137.86
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-101.91	
<i>For >100 To 250, Deduct</i>	-152.86	
<i>For >250 To 500, Deduct</i>	-247.87	
<i>For >500 To 1000, Deduct</i>	-342.88	
<i>For >1000, Deduct</i>	-437.89	
26 56 19 00-0211 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,332.27	144.76
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-116.61	
<i>For >100 To 250, Deduct</i>	-174.92	
<i>For >250 To 500, Deduct</i>	-284.30	
<i>For >500 To 1000, Deduct</i>	-393.67	
<i>For >1000, Deduct</i>	-503.05	
26 56 19 00-0212 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,626.43	151.65
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-131.32	
<i>For >100 To 250, Deduct</i>	-196.98	
<i>For >250 To 500, Deduct</i>	-320.72	
<i>For >500 To 1000, Deduct</i>	-444.46	
<i>For >1000, Deduct</i>	-568.20	
26 56 19 00-0213 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,033.12	158.54
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-151.66	
<i>For >100 To 250, Deduct</i>	-227.48	
<i>For >250 To 500, Deduct</i>	-371.21	
<i>For >500 To 1000, Deduct</i>	-514.94	
<i>For >1000, Deduct</i>	-658.67	
26 56 19 00-0214 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,327.28	165.44
<i>For Multi-Level Drive Currents, Add</i>	267.03	
<i>For >50 To 100, Deduct</i>	-166.36	
<i>For >100 To 250, Deduct</i>	-249.55	
<i>For >250 To 500, Deduct</i>	-407.64	
<i>For >500 To 1000, Deduct</i>	-565.73	
<i>For >1000, Deduct</i>	-723.82	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0215	EA		200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,915.61	179.23
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-195.78	
			<i>For >100 To 250, Deduct</i>	-293.67	
			<i>For >250 To 500, Deduct</i>	-480.49	
			<i>For >500 To 1000, Deduct</i>	-667.31	
			<i>For >1000, Deduct</i>	-854.13	
26 56 19 00-0216	EA		240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	4,490.15	186.12
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For >50 To 100, Deduct</i>	-224.51	
			<i>For >100 To 250, Deduct</i>	-336.76	
			<i>For >250 To 500, Deduct</i>	-551.96	
			<i>For >500 To 1000, Deduct</i>	-767.16	
			<i>For >1000, Deduct</i>	-982.37	
26 56 19 00-0217			Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0206)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0218	EA		8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250)	994.79	137.86
			<i>For >50 To 100, Deduct</i>	-49.74	
			<i>For >100 To 250, Deduct</i>	-74.61	
			<i>For >250 To 500, Deduct</i>	-117.46	
			<i>For >500 To 1000, Deduct</i>	-160.30	
			<i>For >1000, Deduct</i>	-203.15	
26 56 19 00-0219			Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0170)</small>		
26 56 19 00-0220			Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0219)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0221	EA		40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,224.71	124.08
			<i>For >50 To 100, Deduct</i>	-61.24	
			<i>For >100 To 250, Deduct</i>	-91.85	
			<i>For >250 To 500, Deduct</i>	-146.88	
			<i>For >500 To 1000, Deduct</i>	-201.92	
			<i>For >1000, Deduct</i>	-256.95	
26 56 19 00-0222	EA		60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,351.02	130.98
			<i>For >50 To 100, Deduct</i>	-67.55	
			<i>For >100 To 250, Deduct</i>	-101.33	
			<i>For >250 To 500, Deduct</i>	-162.33	
			<i>For >500 To 1000, Deduct</i>	-223.33	
			<i>For >1000, Deduct</i>	-284.33	
26 56 19 00-0223			Surface Mount, LED Area Fixtures <small>(26 56 19 00-0170)</small>		
26 56 19 00-0224			Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0223)</small>		
			Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0225	EA		50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	652.63	124.08
			<i>For >50 To 100, Deduct</i>	-32.63	
			<i>For >100 To 250, Deduct</i>	-48.95	
			<i>For >250 To 500, Deduct</i>	-75.37	
			<i>For >500 To 1000, Deduct</i>	-101.80	
			<i>For >1000, Deduct</i>	-128.23	
26 56 19 00-0226	EA		50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,457.58	124.08
			<i>For >50 To 100, Deduct</i>	-72.88	
			<i>For >100 To 250, Deduct</i>	-109.32	
			<i>For >250 To 500, Deduct</i>	-175.99	
			<i>For >500 To 1000, Deduct</i>	-242.67	
			<i>For >1000, Deduct</i>	-309.34	
26 56 19 00-0227	EA		68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,211.56	137.86
			<i>For >50 To 100, Deduct</i>	-60.58	
			<i>For >100 To 250, Deduct</i>	-90.87	
			<i>For >250 To 500, Deduct</i>	-144.55	
			<i>For >500 To 1000, Deduct</i>	-198.24	
			<i>For >1000, Deduct</i>	-251.92	
26 56 19 00-0228	EA		68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,500.34	137.86
			<i>For >50 To 100, Deduct</i>	-75.02	
			<i>For >100 To 250, Deduct</i>	-112.53	
			<i>For >250 To 500, Deduct</i>	-180.65	
			<i>For >500 To 1000, Deduct</i>	-248.77	
			<i>For >1000, Deduct</i>	-316.90	
26 56 19 00-0229			Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0223)</small>		
			Note: Wall, inverted, post, bollard, floodlight trunion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0230	EA		13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	209.90	44.08
			<i>For Knuckle Mount Or Trunnion Mount Base, Add</i>	45.00	
			<i>For >50 To 100, Deduct</i>	-10.50	
			<i>For >100 To 250, Deduct</i>	-15.74	
			<i>For >250 To 500, Deduct</i>	-24.40	
			<i>For >500 To 1000, Deduct</i>	-33.06	
			<i>For >1000, Deduct</i>	-41.72	
26 56 19 00-0231	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	238.84	44.08
			<i>For Knuckle Mount Or Trunnion Mount Base, Add</i>	45.00	
			<i>For >50 To 100, Deduct</i>	-11.94	
			<i>For >100 To 250, Deduct</i>	-17.91	
			<i>For >250 To 500, Deduct</i>	-28.02	
			<i>For >500 To 1000, Deduct</i>	-38.12	
			<i>For >1000, Deduct</i>	-48.23	
26 56 19 00-0232	EA		30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	293.96	44.08
			<i>For Knuckle Mount Or Trunnion Mount Base, Add</i>	45.00	
			<i>For >50 To 100, Deduct</i>	-14.70	
			<i>For >100 To 250, Deduct</i>	-22.05	
			<i>For >250 To 500, Deduct</i>	-34.91	
			<i>For >500 To 1000, Deduct</i>	-47.77	
			<i>For >1000, Deduct</i>	-60.63	
26 56 19 00-0233			Surface Mount, LED Facade Fixtures (26 56 19 00-0170)		
26 56 19 00-0234			Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 19 00-0233)		
26 56 19 00-0235	EA		12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	759.88	51.46
			<i>For >50 To 100, Deduct</i>	-37.99	
			<i>For >100 To 250, Deduct</i>	-56.99	
			<i>For >250 To 500, Deduct</i>	-93.03	
			<i>For >500 To 1000, Deduct</i>	-129.06	
			<i>For >1000, Deduct</i>	-165.10	
26 56 19 00-0236	EA		24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,240.23	46.99
			<i>For >50 To 100, Deduct</i>	-62.01	
			<i>For >100 To 250, Deduct</i>	-93.02	
			<i>For >250 To 500, Deduct</i>	-153.35	
			<i>For >500 To 1000, Deduct</i>	-213.68	
			<i>For >1000, Deduct</i>	-274.02	
26 56 19 00-0237	EA		36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,584.92	39.16
			<i>For >50 To 100, Deduct</i>	-79.25	
			<i>For >100 To 250, Deduct</i>	-118.87	
			<i>For >250 To 500, Deduct</i>	-196.72	
			<i>For >500 To 1000, Deduct</i>	-274.56	
			<i>For >1000, Deduct</i>	-352.41	
26 56 19 00-0238	EA		48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,929.59	31.33
			<i>For >50 To 100, Deduct</i>	-96.48	
			<i>For >100 To 250, Deduct</i>	-144.72	
			<i>For >250 To 500, Deduct</i>	-240.08	
			<i>For >500 To 1000, Deduct</i>	-335.44	
			<i>For >1000, Deduct</i>	-430.80	
26 56 19 00-0239			Post Top, LED Area Fixtures (26 56 19 00-0170)		
26 56 19 00-0240			Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 19 00-0239)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0241	EA		1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	2,128.24	189.57
			<i>For >50 To 100, Deduct</i>	-106.41	
			<i>For >100 To 250, Deduct</i>	-159.62	
			<i>For >250 To 500, Deduct</i>	-256.55	
			<i>For >500 To 1000, Deduct</i>	-353.49	
			<i>For >1000, Deduct</i>	-450.42	
26 56 19 00-0242	EA		3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,351.42	189.57
			<i>For >50 To 100, Deduct</i>	-117.57	
			<i>For >100 To 250, Deduct</i>	-176.36	
			<i>For >250 To 500, Deduct</i>	-284.45	
			<i>For >500 To 1000, Deduct</i>	-392.54	
			<i>For >1000, Deduct</i>	-500.63	
26 56 19 00-0243	EA		77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	2,527.83	189.57
			<i>For >50 To 100, Deduct</i>	-126.39	
			<i>For >100 To 250, Deduct</i>	-189.59	
			<i>For >250 To 500, Deduct</i>	-306.50	
			<i>For >500 To 1000, Deduct</i>	-423.41	
			<i>For >1000, Deduct</i>	-540.33	
26 56 19 00-0244			Post Top, LED Area Fixtures (General Electric EPAS) (26 56 19 00-0239)		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0245	EA		3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	2,511.01	189.57
			<i>For >50 To 100, Deduct</i>	-125.55	
			<i>For >100 To 250, Deduct</i>	-188.33	
			<i>For >250 To 500, Deduct</i>	-304.40	
			<i>For >500 To 1000, Deduct</i>	-420.47	
			<i>For >1000, Deduct</i>	-536.54	
26 56 19 00-0246	EA		6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,568.36	189.57
			<i>For >50 To 100, Deduct</i>	-128.42	
			<i>For >100 To 250, Deduct</i>	-192.63	
			<i>For >250 To 500, Deduct</i>	-311.57	
			<i>For >500 To 1000, Deduct</i>	-430.51	
			<i>For >1000, Deduct</i>	-549.45	
26 56 19 00-0247			Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0239)</small>		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0248	EA		3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,734.66	189.57
			<i>For >50 To 100, Deduct</i>	-86.73	
			<i>For >100 To 250, Deduct</i>	-130.10	
			<i>For >250 To 500, Deduct</i>	-207.35	
			<i>For >500 To 1000, Deduct</i>	-284.61	
			<i>For >1000, Deduct</i>	-361.86	
26 56 19 00-0249	EA		6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,820.48	189.57
			<i>For >50 To 100, Deduct</i>	-91.02	
			<i>For >100 To 250, Deduct</i>	-136.54	
			<i>For >250 To 500, Deduct</i>	-218.08	
			<i>For >500 To 1000, Deduct</i>	-299.63	
			<i>For >1000, Deduct</i>	-381.17	
26 56 19 00-0250			Post Top, LED Area Fixtures (General Electric EPST) <small>(26 56 19 00-0239)</small>		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0251	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....	1,344.58	189.57
			<i>For >50 To 100, Deduct</i>	-67.23	
			<i>For >100 To 250, Deduct</i>	-100.84	
			<i>For >250 To 500, Deduct</i>	-158.59	
			<i>For >500 To 1000, Deduct</i>	-216.35	
			<i>For >1000, Deduct</i>	-274.10	
26 56 19 00-0252	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....	1,430.40	189.57
			<i>For >50 To 100, Deduct</i>	-71.52	
			<i>For >100 To 250, Deduct</i>	-107.28	
			<i>For >250 To 500, Deduct</i>	-169.32	
			<i>For >500 To 1000, Deduct</i>	-231.36	
			<i>For >1000, Deduct</i>	-293.41	
26 56 19 00-0253			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) <small>(26 56 19 00-0239)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0254	EA		13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....	3,285.89	189.57
			<i>For >50 To 100, Deduct</i>	-164.29	
			<i>For >100 To 250, Deduct</i>	-246.44	
			<i>For >250 To 500, Deduct</i>	-401.26	
			<i>For >500 To 1000, Deduct</i>	-556.07	
			<i>For >1000, Deduct</i>	-710.89	
26 56 19 00-0255			LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) <small>(26 56 19 00-0239)</small>		
			Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		
26 56 19 00-0256	EA		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	903.60	103.40
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For >50 To 100, Deduct</i>	-45.18	
			<i>For >100 To 250, Deduct</i>	-67.77	
			<i>For >250 To 500, Deduct</i>	-107.78	
			<i>For >500 To 1000, Deduct</i>	-147.79	
			<i>For >1000, Deduct</i>	-187.80	
26 56 19 00-0257			LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <small>(26 56 19 00-0239)</small>		
			Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0258 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT).....	570.08	22.06
For Backlight Control Shield, Add	44.56	
For >50 To 100, Deduct	-28.50	
For >100 To 250, Deduct	-42.76	
For >250 To 500, Deduct	-69.05	
For >500 To 1000, Deduct	-95.35	
For >1000, Deduct	-121.65	
26 56 19 00-0259 Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0170)		
26 56 19 00-0260 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania		
VAPOR1B/040UNVD840/48EC/GR/D)	524.87	40.95
For >50 To 100, Deduct	-26.24	
For >100 To 250, Deduct	-39.37	
For >250 To 500, Deduct	-64.07	
For >500 To 1000, Deduct	-88.78	
For >1000, Deduct	-113.48	
26 56 21 HID Exterior Lighting (26 56)		
26 56 21 00-0001 High Mast Fixtures (26 56 21)		
26 56 21 00-0002 Metal Halide, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,981.02	170.35
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,117.49	170.35
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,098.80	194.61
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,180.68	194.61
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,204.62	243.26
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,286.50	243.26
26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux.....	2,046.98	170.35
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,128.86	170.35
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,477.41	180.08
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,537.81	194.61
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,684.57	243.26
26 56 21 00-0015 HID, Pole Mounted (26 56 21)		
26 56 21 00-0016 Metal Halide, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	682.51	277.77
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	766.43	301.51
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	890.87	324.35
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,135.55	380.13
26 56 21 00-0021 High Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	841.03	324.35
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	866.54	324.35
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	906.72	324.35
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,013.72	324.35
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,170.11	324.35
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,096.48	324.35
26 56 21 00-0028 Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	699.69	176.45
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	768.60	259.47
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	901.01	259.47
26 56 21 00-0032 Metal Halide, Area Fixtures (26 56 21)		
26 56 21 00-0033 Metal Halide, Pole Mount, Area Fixtures (26 56 21 00-0032)		
Note: Includes pulse start ballast.		
26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount.....	1,152.80	172.14
26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount.....	1,265.03	189.36
26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount.....	1,399.25	206.57
26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount.....	1,477.98	241.00
26 56 21 00-0038 High Pressure Sodium, Area Fixtures (26 56 21)		
26 56 21 00-0039 Pole Mount, High Pressure Sodium Area Fixtures (26 56 21 00-0038)		
26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	958.16	137.71
26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,040.94	172.14
26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,127.43	206.57
26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,186.70	241.00



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 56 21 00-0044	Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21)</small>		
26 56 21 00-0045	Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046	EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	643.89	259.47
26 56 21 00-0047	EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	730.72	291.91
26 56 21 00-0048	EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	871.20	324.35
26 56 21 00-0049	EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,117.26	380.13
26 56 21 00-0050	High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051	EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	614.49	221.85
26 56 21 00-0052	EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	666.65	236.13
26 56 21 00-0053	EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	717.45	249.10
26 56 21 00-0054	EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	741.66	259.47
26 56 21 00-0055	EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	822.06	291.91
26 56 21 00-0056	EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	886.37	324.35
26 56 21 00-0057	EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,226.90	380.13
26 56 21 00-0058	Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0059	High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060	EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	824.43	175.15
26 56 21 00-0061	EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	854.08	194.61
26 56 21 00-0062	EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	911.58	221.85
26 56 21 00-0063	EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	936.15	236.13
26 56 21 00-0064	EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	961.56	249.10
26 56 21 00-0065	EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,007.65	259.47
26 56 21 00-0066	EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,104.67	291.91
26 56 21 00-0067	EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,344.91	324.35
26 56 21 00-0068	Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069	EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	907.37	194.61
26 56 21 00-0070	EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	956.79	221.85
26 56 21 00-0071	EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	988.89	236.13
26 56 21 00-0072	EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,030.55	249.10
26 56 21 00-0073	EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,052.93	259.47
26 56 21 00-0074	EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,152.29	291.91
26 56 21 00-0075	EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,471.39	324.35
26 56 21 00-0076	Wall Packs <small>(26 56 21)</small>		
26 56 21 00-0077	Non-Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
	Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078	EA 13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	367.27	61.22
26 56 21 00-0079	EA 50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	394.24	61.22
26 56 21 00-0080	EA 35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	394.24	61.22
26 56 21 00-0081	EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	525.02	61.22
26 56 21 00-0082	Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
	Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083	EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	736.12	61.22
26 56 21 00-0084	EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	745.82	61.22
26 56 21 00-0085	EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	754.21	61.22
26 56 21 00-0086	EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	738.91	61.22
26 56 21 00-0087	EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	675.97	61.22
26 56 21 00-0088	EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	641.40	61.22
26 56 21 00-0089	Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
	Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 21 00-0090	EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	775.94	61.22
26 56 21 00-0091	EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	784.78	61.22
26 56 21 00-0092	EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	769.50	61.22
26 56 21 00-0093	EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	781.80	61.22
26 56 21 00-0094	EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	781.80	61.22



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0095 Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.</small>		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	735.48	81.55
26 56 21 00-0097 EA 100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	735.48	81.55
26 56 21 00-0098 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	688.11	81.55
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	706.26	81.55
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	706.26	81.55
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	653.75	81.55
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.</small>		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	763.54	81.55
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	763.54	81.55
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	763.54	81.55
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	735.68	81.55
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	735.68	81.55
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	735.68	81.55
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.</small>		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	990.25	81.55
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. Lithonia TWR2.</small>		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	927.03	101.02
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	991.24	101.02
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,067.80	101.02
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,088.87	101.02
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.</small>		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,009.62	101.02
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,081.77	101.02
26 56 21 00-0119 Non-Cutoff, Polycarbonate Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.</small>		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	927.70	122.44
26 56 21 00-0121 EA 175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	851.28	122.44
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	910.01	122.44
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	915.86	122.44
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	921.99	122.44
26 56 21 00-0125 Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.</small>		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	927.72	122.44
26 56 21 00-0127 EA 250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	953.22	122.44
26 56 21 00-0128 EA 400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,029.63	122.44
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	978.70	122.44
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,004.20	122.44
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,055.09	122.44
26 56 21 00-0132 Semi Cutoff, Induction Wall Packs <small>(26 56 21 00-0076)</small>		
26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) <small>(26 56 21 00-0132)</small>		
<small>Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.</small>		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	1,210.58	117.19
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	1,235.24	124.08
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	1,259.90	130.98
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,404.21	137.86
26 56 21 00-0138 Induction, Roadway Lighting <small>(26 56 21)</small>		
26 56 21 00-0139 Induction Roadway Lighting (US Lighting Tech) <small>(26 56 21 00-0138)</small>		
<small>Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.</small>		
26 56 21 00-0140 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	665.33	206.80
26 56 21 00-0141 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	728.48	213.70
26 56 21 00-0142 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	756.06	227.47
26 56 21 00-0143 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	783.63	241.26
26 56 21 00-0144 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	910.94	248.16

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 56 21 00-0145	EA	250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	928.68	255.05
	26 56 21 00-0146	EA	40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	623.87	206.80
	26 56 21 00-0147	EA	70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	692.94	213.70
	26 56 21 00-0148	EA	100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	720.52	227.47
	26 56 21 00-0149	EA	150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	748.09	241.26
	26 56 21 00-0150		Induction, Area Fixtures <small>(26 56 21)</small>		
	26 56 21 00-0151		Post Top, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
	26 56 21 00-0152		Post Top, Induction Area Fixtures (US Lighting Tech) <small>(26 56 21 00-0151)</small>		
			Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
	26 56 21 00-0153	EA	40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	735.51	189.57
	26 56 21 00-0154	EA	70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	792.77	189.57
	26 56 21 00-0155	EA	100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	792.77	189.57
	26 56 21 00-0156	EA	150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	792.77	189.57
	26 56 21 00-0157		Surface Mount, Induction Parking Structure Fixtures <small>(26 56 21 00-0150)</small>		
	26 56 21 00-0158		Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 21 00-0157)</small>		
	26 56 21 00-0159	EA	40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	668.51	172.33
	26 56 21 00-0160	EA	55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	708.97	175.78
	26 56 21 00-0161	EA	70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	719.81	179.23
	26 56 21 00-0162	EA	80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	730.65	182.67
	26 56 21 00-0163	EA	100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	741.50	186.12
	26 56 21 00-0164	EA	120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	756.29	189.57
	26 56 21 00-0165	EA	70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	777.07	179.23
	26 56 21 00-0166	EA	80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	787.91	182.67
	26 56 21 00-0167	EA	100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	798.76	186.12
	26 56 21 00-0168	EA	120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	830.33	189.57
	26 56 21 00-0169		Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
	26 56 21 00-0170		Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0169)</small>		
			Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
	26 56 21 00-0171	EA	70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	1,264.96	117.19
	26 56 21 00-0172	EA	80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	1,300.50	124.08
	26 56 21 00-0173	EA	100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	1,336.04	130.98

END OF SECTION 26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	1,049.25	125.44
		Note: Excludes terminations.		
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,340.91	167.29
		Note: Excludes terminations.		
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	2,124.45	250.89
		Note: Excludes terminations.		
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	12.68	1.84
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	82.43	33.14
27 05 26 00-0006	EA	2" x 1/4" x 12", G Pattern, Grounding Bus Bar.....	186.16	33.14
27 05 26 00-0007	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	200.64	33.14
27 05 26 00-0008	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	381.40	33.14
27 05 26 00-0009	EA	#6 AWG, Cable Runway Ground Strap.....	75.96	6.13
27 05 26 00-0010	EA	1/4" Screw Size, #6 AWG Compression Lug.....	26.42	6.13
27 05 26 00-0011	EA	3/8" Screw Size, #6 AWG Compression Lug.....	28.17	6.13
27 05 26 00-0012	EA	Two Mounting Hole, Ground Terminal Block.....	31.40	6.13

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	9.65	3.07
		<i>For >50 To 100, Deduct</i>	-0.39	
		<i>For >100 To 250, Deduct</i>	-0.79	
		<i>For >250 To 500, Deduct</i>	-1.49	
		<i>For >500, Deduct</i>	-2.19	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Painted Powder Coated Finish, Add</i>	0.72	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	10.20	3.07
		<i>For >50 To 100, Deduct</i>	-0.41	
		<i>For >100 To 250, Deduct</i>	-0.82	
		<i>For >250 To 500, Deduct</i>	-1.53	
		<i>For >500, Deduct</i>	-2.25	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Painted Powder Coated Finish, Add</i>	2.51	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	8.94	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	11.04	3.07
		<i>For >50 To 100, Deduct</i>	-0.43	
		<i>For >100 To 250, Deduct</i>	-0.86	
		<i>For >250 To 500, Deduct</i>	-1.59	
		<i>For >500, Deduct</i>	-2.33	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Painted Powder Coated Finish, Add</i>	3.08	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	11.11	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	18.35	3.07
		<i>For >50 To 100, Deduct</i>	-0.61	
		<i>For >100 To 250, Deduct</i>	-1.22	
		<i>For >250 To 500, Deduct</i>	-2.14	
		<i>For >500, Deduct</i>	-3.06	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
		<i>For Work In Restricted Working Space, Add</i>	1.84	
		<i>For Painted Powder Coated Finish, Add</i>	1.64	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	9.84	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 Communications
27 05 Common Work Results for Communications
27 05 29 Hangers and Supports for Communications Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0008	EA		3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	10.94	3.07
			<i>For >50 To 100, Deduct</i>	-0.43	
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.59	
			<i>For >500, Deduct</i>	-2.32	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	14.22	3.07
			<i>For >50 To 100, Deduct</i>	-0.51	
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.65	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	15.82	3.07
			<i>For >50 To 100, Deduct</i>	-0.55	
			<i>For >100 To 250, Deduct</i>	-1.10	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	21.56	3.07
			<i>For >50 To 100, Deduct</i>	-0.69	
			<i>For >100 To 250, Deduct</i>	-1.38	
			<i>For >250 To 500, Deduct</i>	-2.38	
			<i>For >500, Deduct</i>	-3.38	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0012			Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes strut.		
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	11.55	3.07
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 250, Deduct</i>	-0.88	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500, Deduct</i>	-2.38	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	13.74	3.07
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.60	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	14.88	3.07
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	20.29	3.07
			<i>For >50 To 100, Deduct</i>	-0.66	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-3.26	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0017			T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes T-Bar.		
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28)	13.95	3.07
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.81	
			<i>For >500, Deduct</i>	-2.62	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28)	17.66	3.07
			<i>For >50 To 100, Deduct</i>	-0.59	
			<i>For >100 To 250, Deduct</i>	-1.19	
			<i>For >250 To 500, Deduct</i>	-2.09	
			<i>For >500, Deduct</i>	-2.99	
			<i>For Work In Restricted Working Space, Add</i>	1.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0020 EA 2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28).....	18.63	3.07
<i>For >50 To 100, Deduct</i>	-0.62	
<i>For >100 To 250, Deduct</i>	-1.24	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-3.09	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0021 Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
<small>Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.</small>		
27 05 29 00-0022 EA 3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	11.25	3.07
<i>For >50 To 100, Deduct</i>	-0.43	
<i>For >100 To 250, Deduct</i>	-0.87	
<i>For >250 To 500, Deduct</i>	-1.61	
<i>For >500, Deduct</i>	-2.35	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0023 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	11.76	3.07
<i>For >50 To 100, Deduct</i>	-0.45	
<i>For >100 To 250, Deduct</i>	-0.89	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-2.40	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0024 EA 2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	14.33	3.07
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.02	
<i>For >250 To 500, Deduct</i>	-1.84	
<i>For >500, Deduct</i>	-2.66	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0025 Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
<small>Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.</small>		
27 05 29 00-0026 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	14.03	3.07
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.01	
<i>For >250 To 500, Deduct</i>	-1.82	
<i>For >500, Deduct</i>	-2.63	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0027 EA 2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	15.23	3.07
<i>For >50 To 100, Deduct</i>	-0.53	
<i>For >100 To 250, Deduct</i>	-1.07	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.75	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0028 EA 4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	21.22	3.07
<i>For >50 To 100, Deduct</i>	-0.68	
<i>For >100 To 250, Deduct</i>	-1.37	
<i>For >250 To 500, Deduct</i>	-2.36	
<i>For >500, Deduct</i>	-3.35	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0029 Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
27 05 29 00-0030 EA 3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	13.86	3.07
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.00	
<i>For >250 To 500, Deduct</i>	-1.81	
<i>For >500, Deduct</i>	-2.61	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0031 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	16.01	3.07
<i>For >50 To 100, Deduct</i>	-0.55	
<i>For >100 To 250, Deduct</i>	-1.11	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.83	
<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0032 EA 2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	17.15	3.07
<i>For >50 To 100, Deduct</i>	-0.58	
<i>For >100 To 250, Deduct</i>	-1.16	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.94	
<i>For Work In Restricted Working Space, Add</i>	1.84	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	23.39	3.07
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-2.52	
			<i>For >500, Deduct</i>	-3.57	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
27 05 29 00-0034			Adjustable Cable Supports (Caddy® CableCat CAT425) ^(27 05 29)		
27 05 29 00-0035	EA		Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	39.69	4.04
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100 To 250, Deduct</i>	-2.60	
			<i>For >250 To 500, Deduct</i>	-4.51	
			<i>For >500, Deduct</i>	-6.42	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0036	EA		Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	40.50	4.04
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100 To 250, Deduct</i>	-2.64	
			<i>For >250 To 500, Deduct</i>	-4.57	
			<i>For >500, Deduct</i>	-6.50	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0037	EA		Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	44.68	4.04
			<i>For >50 To 100, Deduct</i>	-1.42	
			<i>For >100 To 250, Deduct</i>	-2.85	
			<i>For >250 To 500, Deduct</i>	-4.88	
			<i>For >500, Deduct</i>	-6.92	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0038	EA		>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	39.56	4.04
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100 To 250, Deduct</i>	-2.59	
			<i>For >250 To 500, Deduct</i>	-4.50	
			<i>For >500, Deduct</i>	-6.40	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0039	EA		Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	41.50	4.04
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100 To 250, Deduct</i>	-2.69	
			<i>For >250 To 500, Deduct</i>	-4.64	
			<i>For >500, Deduct</i>	-6.60	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0040	EA		>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	43.41	4.04
			<i>For >50 To 100, Deduct</i>	-1.39	
			<i>For >100 To 250, Deduct</i>	-2.78	
			<i>For >250 To 500, Deduct</i>	-4.79	
			<i>For >500, Deduct</i>	-6.79	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
27 05 29 00-0041	EA		Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	40.85	4.04
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100 To 250, Deduct</i>	-2.65	
			<i>For >250 To 500, Deduct</i>	-4.59	
			<i>For >500, Deduct</i>	-6.53	
			<i>For Work In Restricted Working Space, Add</i>	3.67	

27 05 33 Conduits and Backboxes for Communications Systems ^(27 05)

See CSI section 26 05 33 00-0000 for conduit and boxes.

27 05 39 Surface Raceways for Communications Systems ^(27 05)

See CSI section 26 05 33 00-0000 for surface raceways.

27 05 43 Underground Ducts and Raceways for Communications Systems ^(27 05)

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

27 05 46 Utility Poles for Communications Systems ^(27 05)

See CSI section 26 05 46 00-0000 for utility poles.

27 05 53 Identification for Communications Systems ^(27 05)

See CSI section 26 05 53 00-0000 for identification.

27 10 Structured Cabling ⁽²⁷⁾

Note: Includes identifying, tagging and testing.

27 11 Communications Equipment Room Fittings ^(27 10)**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures** ^(27 11)**27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards** ^(27 11 16)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 11 16 00-0002	EA		4' x 4' x 3/4" Fire Retardant Plywood Backboard <i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	102.55 62.30	31.83
	27 11 16 00-0003	EA		4' x 8' x 3/4" Fire Retardant Plywood Backboard <i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	205.10 124.59	63.67
27 11 16 00-0004	Terminal Cabinets <small>(27 11 16)</small>					
	27 11 16 00-0005	EA		12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	387.41	91.83
	27 11 16 00-0006	EA		18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	493.10	101.02
	27 11 16 00-0007	EA		24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	567.37	116.32
	27 11 16 00-0008	EA		18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	589.10	119.38
	27 11 16 00-0009	EA		24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	726.24	122.44
	27 11 16 00-0010	EA		26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	902.52	137.75
	27 11 16 00-0011	EA		24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	925.49	134.69
	27 11 16 00-0012	EA		30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,184.64	191.87
	27 11 16 00-0013	EA		36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,265.89	210.85
	27 11 16 00-0014	EA		42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,537.17	222.73
	27 11 16 00-0015	EA		30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,269.69	183.66
	27 11 16 00-0016	EA		36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,373.06	198.97
	27 11 16 00-0017	EA		48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,710.08	255.06
	27 11 16 00-0018	EA		54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	2,050.35	318.85
	27 11 16 00-0019	EA		48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,336.43	315.29
	27 11 16 00-0020	EA		60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,678.39	383.62
27 11 16 00-0021	Equipment Racks And Cable Managers <small>(27 11 16)</small>					
27 11 16 00-0022	Equipment Racks <small>(27 11 16 00-0021)</small>					
	Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.					
27 11 16 00-0023	Standard Equipment Racks <small>(27 11 16 00-0022)</small>					
27 11 16 00-0024	19" Width, Standard Equipment Racks <small>(27 11 16 00-0023)</small>					
	27 11 16 00-0025	EA		84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	594.21 10.12	195.91
	27 11 16 00-0026	EA		96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	815.68 19.97	208.15
	27 11 16 00-0027	EA		108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	880.49 21.98	220.40
27 11 16 00-0028	Universal Equipment Racks <small>(27 11 16 00-0022)</small>					
27 11 16 00-0029	Universal Equipment Racks <small>(27 11 16 00-0028)</small>					
27 11 16 00-0030	19" Width, EIA Universal Equipment Racks <small>(27 11 16 00-0029)</small>					
	27 11 16 00-0031	EA		36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	761.35 20.93	171.42
	27 11 16 00-0032	EA		48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	830.17 24.06	174.48
	27 11 16 00-0033	EA		60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	829.55 23.72	177.54
	27 11 16 00-0034	EA		66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	850.65 24.47	180.60
	27 11 16 00-0035	EA		72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	871.52 25.21	183.66
	27 11 16 00-0036	EA		78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	894.08 26.03	186.73
	27 11 16 00-0037	EA		84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	766.07 19.32	189.79
	27 11 16 00-0038	EA		90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	937.96 27.61	192.85
	27 11 16 00-0039	EA		96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	970.63 28.94	195.91
	27 11 16 00-0040	EA		102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	999.21 30.06	198.97
	27 11 16 00-0041	EA		108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,006.47 30.12	202.03
27 11 16 00-0042	23" Width, Universal Equipment Racks <small>(27 11 16 00-0029)</small>					
	27 11 16 00-0043	EA		36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	804.29 23.07	171.42
	27 11 16 00-0044	EA		48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	831.77 24.14	174.48
	27 11 16 00-0045	EA		60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	855.99 25.05	177.54
	27 11 16 00-0046	EA		66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	900.95 26.99	180.60
	27 11 16 00-0047	EA		72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	923.30 27.80	183.66
	27 11 16 00-0048	EA		78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	947.58 28.71	186.73

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0049	EA		84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	820.18 22.03	189.79
27 11 16 00-0050	EA		90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	994.73 30.45	192.85
27 11 16 00-0051	EA		96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,030.09 31.91	195.91
27 11 16 00-0052	EA		102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,061.02 33.15	198.97
27 11 16 00-0053	EA		108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,068.37 33.22	202.03
27 11 16 00-0054			35" Width, Universal Equipment Racks <small>(27 11 16 00-0029)</small>		
27 11 16 00-0055	EA		72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	996.10 31.44	183.66
27 11 16 00-0056	EA		84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,048.46 33.44	189.79
27 11 16 00-0057			UL Listed Universal Equipment Racks <small>(27 11 16 00-0028)</small> Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058			19" Width, UL Listed Universal Equipment Racks <small>(27 11 16 00-0057)</small>		
27 11 16 00-0059	EA		36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	803.21 23.02	171.42
27 11 16 00-0060	EA		48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	866.80 25.89	174.48
27 11 16 00-0061	EA		60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	880.13 26.25	177.54
27 11 16 00-0062	EA		66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	899.63 26.92	180.60
27 11 16 00-0063	EA		72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	921.93 27.73	183.66
27 11 16 00-0064	EA		78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	946.14 28.63	186.73
27 11 16 00-0065	EA		84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	969.41 29.49	189.79
27 11 16 00-0066	EA		90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	993.21 30.38	192.85
27 11 16 00-0067	EA		96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,028.53 31.84	195.91
27 11 16 00-0068	EA		102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,059.38 33.07	198.97
27 11 16 00-0069	EA		108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,066.66 33.13	202.03
27 11 16 00-0070			23" Width, UL Listed Universal Equipment Racks <small>(27 11 16 00-0057)</small>		
27 11 16 00-0071	EA		36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	850.49 25.38	171.42
27 11 16 00-0072	EA		48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	930.92 29.10	174.48
27 11 16 00-0073	EA		60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	942.89 29.39	177.54
27 11 16 00-0074	EA		66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	954.91 29.68	180.60
27 11 16 00-0075	EA		72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	978.89 30.58	183.66
27 11 16 00-0076	EA		78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,004.99 31.58	186.73
27 11 16 00-0077	EA		84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,030.00 32.52	189.79
27 11 16 00-0078	EA		90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,055.61 33.50	192.85
27 11 16 00-0079	EA		96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,093.90 35.10	195.91
27 11 16 00-0080	EA		102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,127.33 36.47	198.97
27 11 16 00-0081	EA		108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,134.90 36.54	202.03
27 11 16 00-0082			4-Post Equipment Racks And Server Frames <small>(27 11 16 00-0022)</small>		
27 11 16 00-0083			4-Post Equipment Racks <small>(27 11 16 00-0082)</small>		
27 11 16 00-0084	EA		19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,617.96 50.29	306.11
27 11 16 00-0085	EA		19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,764.51 56.39	318.35
27 11 16 00-0086	EA		19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,902.83 62.08	330.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0087 4-Post Server Frame <small>(27 11 16 00-0082)</small>		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,662.19 52.50	306.11
27 11 16 00-0089 Cable Managers <small>(27 11 16 00-0021)</small>		
27 11 16 00-0090 Horizontal Cable Managers <small>(27 11 16 00-0089)</small>		
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	92.94	12.24
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	103.32	12.24
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	77.84	12.24
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	94.50	12.24
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	110.57	12.24
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	86.05	12.24
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	126.88	12.24
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	144.22	12.24
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	102.46	12.24
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	115.06	12.24
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	128.75	12.24
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	120.99	12.24
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	140.59	12.24
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	156.12	12.24
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	174.65	12.24
27 11 16 00-0108 Vertical Cable Managers <small>(27 11 16 00-0089)</small>		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	207.04	18.37
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	291.16	18.37
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	467.63	18.37
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	529.18	18.37
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	221.40	18.37
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	313.73	18.37
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	508.66	18.37
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	570.22	18.37
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	250.13	18.37
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	344.51	18.37
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	570.22	18.37
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	631.78	18.37
27 11 16 00-0122 Double-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	299.37	18.37
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	352.72	18.37
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	570.22	18.37
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	672.81	18.37
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	323.99	18.37
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	377.34	18.37
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	611.26	18.37
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	713.85	18.37
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	356.82	18.37
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	410.17	18.37
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	672.81	18.37
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	775.41	18.37
27 11 16 00-0135 Accessories For Vertical Cable Managers <small>(27 11 16 00-0108)</small>		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	127.08	12.24
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	135.29	12.24
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	143.50	12.24
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	131.19	12.24
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	143.50	12.24
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	155.81	12.24
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	147.60	12.24
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	159.91	12.24
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	172.23	12.24
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	155.81	12.24
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	172.23	12.24
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	184.54	12.24
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	106.57	12.24
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	122.98	12.24
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	128.52	12.24
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	81.94	12.24

27	27 Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 Communications Termination Blocks and Patch Panels (27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

27 11 19 00-0001 Computer Network Components (27 11 19)

27 11 19 00-0002 Ethernet Patch Panels (27 11 19 00-0001)

27 11 19 00-0003	EA	12 Port, Category 5E Patch Panel	303.64	61.22
27 11 19 00-0004	EA	24 Port, Category 5E Patch Panel	458.24	61.22
27 11 19 00-0005	EA	32 Port, Category 5E Patch Panel	604.53	61.22
27 11 19 00-0006	EA	48 Port, Category 5E Patch Panel	740.84	61.22
27 11 19 00-0007	EA	64 Port, Category 5E Patch Panel	826.83	76.53
27 11 19 00-0008	EA	96 Port, Category 5E Patch Panel	1,373.92	91.83
27 11 19 00-0009	EA	12 Port, Category 6 Patch Panel	377.95	61.22
27 11 19 00-0010	EA	24 Port, Category 6 Patch Panel	468.21	61.22
27 11 19 00-0011	EA	48 Port, Category 6 Patch Panel	813.99	61.22
27 11 19 00-0012	EA	96 Port, Category 6 Patch Panel	1,513.56	91.83
27 11 19 00-0013	EA	16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	774.93	91.83
27 11 19 00-0014	EA	16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	814.46	91.83
27 11 19 00-0015	EA	12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289)	318.18	61.22
27 11 19 00-0016	EA	Terminate One End Of A 4 Pair Cable To Category "X" Specifications	43.38	
		<i>For >5 To 10 Cables, Deduct</i>	-7.81	
		<i>For >10 Cables, Deduct</i>	-17.35	
27 11 19 00-0017	EA	Terminate One End Of A Twisted Pair Of Wires	11.93	
		Note: Per each pair		
		<i>For >20 To 40 Pairs, Deduct</i>	-1.91	
		<i>For >40 Pairs, Deduct</i>	-4.53	

27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)

27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)

27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0021	EA	1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	166.11	27.55
27 11 19 00-0022	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	252.51	27.55
27 11 19 00-0023	EA	4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	380.33	27.55
27 11 19 00-0024	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	559.41	45.92
27 11 19 00-0025	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	786.99	45.92

27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0027	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	582.75	45.92
27 11 19 00-0028	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	669.51	45.92
27 11 19 00-0029	EA	6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	722.58	45.92
27 11 19 00-0030	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	850.82	45.92

27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0032	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	731.45	45.92
		<i>For Splice Tray Bracket, Add</i>	80.33	
27 11 19 00-0033	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	860.52	45.92
		<i>For Splice Tray Bracket, Add</i>	87.84	
27 11 19 00-0034	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	1,078.04	45.92
		<i>For Splice Tray Bracket, Add</i>	320.02	

27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0036	EA	8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	934.50	45.92
27 11 19 00-0037	EA	12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,200.81	45.92
27 11 19 00-0038	EA	24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,362.24	45.92
27 11 19 00-0039	EA	48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,773.96	45.92

27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)

Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0041	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	840.09	27.55
27 11 19 00-0042	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	1,158.46	45.92
27 11 19 00-0043	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	1,216.73	45.92

27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019)

Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	880.36	27.55
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,157.75	45.92
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,363.91	45.92
27 11 19 00-0048 Fiber Optic Cable Connector Panels (27 11 19 00-0018)		
27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	114.54	6.12
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	124.55	6.12
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	140.07	6.12
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	153.40	6.12
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	191.16	6.12
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	211.10	6.12
27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	110.12	6.12
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	112.47	6.12
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	134.21	6.12
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	137.33	6.12
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	182.37	6.12
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	187.02	6.12
27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	119.15	6.12
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	130.93	6.12
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	146.20	6.12
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	161.92	6.12
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	200.37	6.12
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	223.91	6.12
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	254.52	6.12
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	285.90	6.12
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	362.79	6.12
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	373.73	6.12
27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	94.74	6.12
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	102.31	6.12
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	113.68	6.12
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	123.77	6.12
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	151.53	6.12
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	166.69	6.12
27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel	118.44	6.12
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel	178.61	6.12
27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	1,041.73	6.12
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	1,045.36	6.12
27 11 19 00-0087 Fiber Optic Cable Splice Housings (27 11 19 00-0018)		
27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door	390.64	61.22
27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	605.58	45.92
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	615.01	45.92
27 11 19 00-0093 Fiber Optic Cable Splice Trays (27 11 19 00-0087)		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray	112.68	15.31
27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018)		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel	211.74	45.92
27 11 19 00-0097 Miscellaneous Accessories (27 11 19 00-0001)		

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

27 11 19 00-0098	EA	Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	79.25	
27 11 19 00-0099	EA	Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	106.46	
27 11 19 00-0100	EA	Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	115.63	
27 11 19 00-0101	EA	Wall Mount Bracket For 96 Port Patch Panel.....	128.59	
27 11 19 00-0102	EA	Lightning Protection Plus Stainless Steel Modules, Siemon.....	530.06	61.22

27 11 19 00-0103 Telephone Components (27 11 19)**27 11 19 00-0104 Terminal Blocks With Wide Range Of 22-8 AWG** (27 11 19 00-0103)

27 11 19 00-0105	EA	Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	36.34	12.27
27 11 19 00-0106	EA	Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	69.78	12.27
27 11 19 00-0107	EA	Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	56.10	12.27
27 11 19 00-0108	EA	Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	27.92	12.27
27 11 19 00-0109	EA	Flat Terminal Block Connection With Wire Range 22-8 AWG.....	19.80	8.59
27 11 19 00-0110	EA	Ground Terminal Block With Wire Range 22-8 AWG.....	37.79	12.27
27 11 19 00-0111	EA	Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	27.92	12.27
27 11 19 00-0112	EA	Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	19.59	8.59
27 11 19 00-0113	EA	Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	19.44	8.59
27 11 19 00-0114	EA	Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	20.10	8.59

27 11 19 00-0115 Terminal Block Mounting Channel (27 11 19 00-0103)

27 11 19 00-0116	EA	Terminal Block Mounting Channel, .5 M Galvanized Steel.....	19.22	6.13
27 11 19 00-0117	EA	Terminal Block Mounting Channel, 1 M Galvanized Steel.....	24.86	6.13
27 11 19 00-0118	EA	Terminal Block Mounting Channel, 2 M Galvanized Steel.....	34.77	6.13
27 11 19 00-0119	EA	Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	24.64	7.36
27 11 19 00-0120	EA	Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	34.02	7.36
27 11 19 00-0121	EA	Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	49.49	7.36

27 11 19 00-0122 Outlet Termination Hardware (27 11 19 00-0103)

27 11 19 00-0123	EA	Telephone Outlet Blocks.....	37.34	6.13
27 11 19 00-0124	EA	Phone Outlet Block For Floor Box.....	103.10	46.53
		Note: Excludes box.		
27 11 19 00-0125	EA	Fiber Optic "SC" Type Modular Bulkhead.....	91.36	27.55
27 11 19 00-0126	EA	Fiber Optic "ST" Type Modular Bulkhead.....	91.36	27.55
27 11 19 00-0127	EA	Type "F" Coaxial Connector Male.....	53.35	18.37
27 11 19 00-0128	EA	Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	138.27	30.61
27 11 19 00-0129	EA	Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	138.27	30.61
27 11 19 00-0130	EA	Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	166.97	30.61
27 11 19 00-0131	EA	Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	166.97	30.61
27 11 19 00-0132	EA	Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	151.87	30.61
27 11 19 00-0133	EA	Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,321.32	153.05
27 11 19 00-0134	EA	Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	64.63	12.24
		Note: Excludes cable terminations.		
27 11 19 00-0135	EA	5-Pair, Connecting Block.....	3.86	1.22
27 11 19 00-0136	EA	4-Pair, Connecting Block.....	4.18	1.22
27 11 19 00-0137	EA	Plastic Label Holder, Transparent.....	15.64	3.06
27 11 19 00-0138	EA	Marked Label, White, 5-Pair.....	4.22	
27 11 19 00-0139	EA	Marked Label, Blue, 4-Pair.....	4.22	

27 11 19 00-0140 Terminations in Manhole or Junction Box (27 11 19 00-0103)

27 11 19 00-0141	EA	25 Pair Cable Termination In Manhole Or Junction Box.....	195.91	
27 11 19 00-0142	EA	50 Pair Cable Termination In Manhole Or Junction Box.....	391.83	
27 11 19 00-0143	EA	100 Pair Cable Termination In Manhole Or Junction Box.....	783.64	
27 11 19 00-0144	EA	150 Pair Cable Termination In Manhole Or Junction Box.....	1,175.47	
27 11 19 00-0145	EA	200 Pair Cable Termination In Manhole Or Junction Box.....	1,375.05	
27 11 19 00-0146	EA	300 Pair Cable Termination In Manhole Or Junction Box.....	2,061.97	
27 11 19 00-0147	EA	400 Pair Cable Termination In Manhole Or Junction Box.....	2,593.38	
27 11 19 00-0148	EA	500 Pair Cable Termination In Manhole Or Junction Box.....	3,242.33	
27 11 19 00-0149	EA	750 Pair Cable Termination In Manhole Or Junction Box.....	4,863.47	
27 11 19 00-0150	EA	1,000 Pair Cable Termination In Manhole Or Junction Box.....	5,898.11	
27 11 19 00-0151	EA	1,200 Pair Cable Termination In Manhole Or Junction Box.....	6,722.27	

27 11 23 Communications Cable Management and Ladder Rack (27 11)**27 11 23 00-0001 Equipment Supports** (27 11 23)

27 11 23 00-0002	EA	Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	30,350.99	964.83
27 11 23 00-0003	EA	DVR Enclosure.....	2,127.13	241.18
27 11 23 00-0004	EA	Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	7,876.40	482.37
27 11 23 00-0005	EA	Panel, NEMA 12/27.00x21.00.....	565.27	120.60
27 11 23 00-0006	EA	Panel, NEMA 12/8.75x6.88.....	152.17	120.60
27 11 23 00-0007	EA	Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	202.70	120.60
27 11 23 00-0008	EA	Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	7,032.26	120.60
27 11 23 00-0009	EA	12" x 5'-11" Tubular Runway.....	124.38	29.39
27 11 23 00-0010	EA	12" x 9'-11" Tubular Runway.....	214.39	48.98
27 11 23 00-0011	EA	Shelf Bracket Support For Tubular Runway.....	39.36	9.18
27 11 23 00-0012	EA	Straight Clamp Hardware For Tubular Runway.....	16.58	6.12



Communications	27	27
Structured Cabling	27 10	
Communications Equipment Room Fittings	27 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway	17.65	6.12
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway	40.87	11.02
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway	87.61	18.37
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway	7.88	2.69
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway	44.66	15.31
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133)	35.90	6.12
27 11 23 00-0019 LF Velcro CMP	2.96	1.23

27 13 Communications Backbone Cabling (27 10)

27 13 13 Communications Copper Backbone Cabling (27 13)

27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)

27 13 13 13-0001 Building Entrance Terminals (27 13 13 13)

27 13 13 13-0002 EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,936.99	268.52
27 13 13 13-0003 EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,876.72	447.55
27 13 13 13-0004 EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	5,445.89	716.63

27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)

27 13 13 13-0006 EA Modular Plug For Non Shielded Copper Communications Cable	30.08	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct	-3.66	
For >10, Deduct	-7.32	
27 13 13 13-0007 EA Modular Plug For Shielded Copper Communications Cable	34.33	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct	-4.12	
For >10, Deduct	-8.24	

27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)

Note: Use for existing systems.		
27 13 13 13-0009 EA Test 1-Pair Of A Copper Communications Cable For Continuity	6.12	
For >25-Pair, Deduct	-2.44	
27 13 13 13-0010 EA Certify 1-Pair Of A Copper Communications Cable	9.18	
For >25-Pair, Deduct	-3.66	
27 13 13 13-0011 EA Certify And Document 1-Pair Of A Copper Communications Cable	14.70	
For >25-Pair, Deduct	-5.86	
27 13 13 13-0012 EA Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	24.49	
For >25-Pair, Deduct	-9.76	
27 13 13 13-0013 EA Certify 4-Pair Category 5-7 Telecommunications Cable	36.73	
For >25-Pair, Deduct	-14.64	
27 13 13 13-0014 EA Certify And Document 4-Pair Category 5-7 Telecommunications Cable	58.77	
For >25-Pair, Deduct	-23.43	

27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)

27 13 13 13-0016 EA 100-Pair, 110 Block With Legs.....	61.76	15.31
27 13 13 13-0017 EA 300-Pair, 110 Block With Legs.....	107.06	15.31
27 13 13 13-0018 EA Clear Label Holder For 110 Wiring Block.....	13.12	6.12
27 13 13 13-0019 EA 4-Pair, 110C Connecting Block.....	7.49	3.06
27 13 13 13-0020 EA 5-Pair, 110C Connecting Block.....	7.66	3.06
27 13 13 13-0021 EA 100-Pair, 110 Jack Panel System.....	348.87	18.37
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0022 EA 300-Pair, 110 Jack Panel System.....	657.32	18.37
Note: Includes twelve 8-pin modular jacks and mounting legs.		

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)

27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)

27 13 23 13-0001 Fiber Optic Cable Connectors (27 13 23 13)

27 13 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable	35.34	
27 13 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable	40.74	
27 13 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable	39.34	
27 13 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable	46.22	
27 13 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable	53.74	
27 13 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable	55.34	
27 13 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable	80.20	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)

27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)

27 13 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	268.35	
27 13 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	272.83	
27 13 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	310.69	
27 13 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	339.08	

27 Communications**27 10 Structured Cabling****27 13 Communications Backbone Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009) Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	323.57	
27 13 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	353.65	
27 13 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	515.43	
27 13 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	667.94	
27 13 23 13-0020 Fiber Optic Cable Splice Closures (27 13 23 13) Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	983.50	122.44
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,228.39	244.89
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,228.39	244.89
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,651.82	122.44
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,896.71	244.89
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,896.71	244.89
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	67.84	15.31
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0028 Fiber Optic Cable Splicing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	36.73	
27 13 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	122.44	
27 13 23 13-0031 Fiber Optic Cable Testing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0032 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	24.49	
For >12 To 48 Strands, Deduct	-1.84	
For >48 Strands, Deduct	-2.45	
27 13 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	36.73	
For >12 To 48 Strands, Deduct	-2.75	
For >48 Strands, Deduct	-3.67	
27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	61.22	
For >12 To 48 Strands, Deduct	-4.59	
For >48 Strands, Deduct	-6.12	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	91.83	
For >12 To 48 Strands, Deduct	-6.89	
For >48 Strands, Deduct	-9.18	
27 13 23 13-0037 Fiber Optic Cable Testing Using A Power Meter (27 13 23 13-0031)		
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test.....	24.49	
For >12 To 48 Strands, Deduct	-1.84	
For >48 Strands, Deduct	-2.45	
27 13 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test.....	36.73	
For >12 To 48 Strands, Deduct	-2.75	
For >48 Strands, Deduct	-3.67	
27 13 23 13-0040 Fiber Optic Cable Light Source/Continuity Testing (27 13 23 13-0031)		
27 13 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test.....	24.49	
For >12 To 48 Strands, Deduct	-1.84	
For >48 Strands, Deduct	-2.45	
27 13 23 13-0042 Other Fiber Optic Cable Equipment (27 13 23 13)		
27 13 23 13-0043 EA 8 Port Ethernet Switch.....	1,030.61	240.90
27 13 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHZ Band, 18 Degree Beamwidth.....	1,453.44	240.90
Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	35,806.56	240.90
Note: 8 Volt DC input		
27 13 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U.....	356.38	30.16
27 13 23 13-0047 EA Hardened Ethernet Switch.....	3,774.12	120.60
27 13 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station.....	97,741.69	2,894.23
27 13 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station.....	121,382.11	3,858.97
27 13 23 13-0050 EA Fiber Break Out Box For 24 Fiber.....	1,578.88	241.18
27 13 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM.....	1,820.16	120.60
27 13 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	1,524.09	120.60
27 13 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input.....	1,940.76	180.88
27 13 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems).....	1,490.92	
27 13 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC.....	1,490.92	
27 13 23 13-0056 Other Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0057 EA Fiber Optic Finger Splice.....	43.37	23.02



Communications	27
Structured Cabling	27 10
Communications Backbone Cabling	27 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 13 23 13-0058 EA Fiber Optic Splice Box - Manholes.....7,151.53

27 15 Communications Horizontal Cabling ^(27 10)

27 15 13 Communications Copper Horizontal Cabling ^(27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001	Solid Conductor Low Voltage Cable ^(27 15 13)		
27 15 13 00-0002	Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0001)		
27 15 13 00-0003	#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0002)		
27 15 13 00-0004	MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,111.35	1,107.67
	<i>For #10 AWG, Add</i>	456.73	
	<i>For Work In Restricted Working Space, Add</i>	553.88	
27 15 13 00-0005	MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,401.09	1,146.83
	<i>For #10 AWG, Add</i>	543.81	
	<i>For Work In Restricted Working Space, Add</i>	573.59	
27 15 13 00-0006	MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,659.44	1,187.11
	<i>For #10 AWG, Add</i>	620.48	
	<i>For Work In Restricted Working Space, Add</i>	593.39	
27 15 13 00-0007	MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,932.18	1,227.39
	<i>For #10 AWG, Add</i>	701.60	
	<i>For Work In Restricted Working Space, Add</i>	613.88	
27 15 13 00-0008	MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,262.53	1,310.18
	<i>For #10 AWG, Add</i>	792.68	
	<i>For Work In Restricted Working Space, Add</i>	655.29	
27 15 13 00-0009	MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,569.17	1,391.86
	<i>For #10 AWG, Add</i>	876.18	
	<i>For Work In Restricted Working Space, Add</i>	696.11	
27 15 13 00-0010	MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,910.31	1,557.45
	<i>For #10 AWG, Add</i>	953.02	
	<i>For Work In Restricted Working Space, Add</i>	778.58	
27 15 13 00-0011	MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,174.59	2,053.11
	<i>For #10 AWG, Add</i>	1,262.86	
	<i>For Work In Restricted Working Space, Add</i>	1,026.36	
27 15 13 00-0012	MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,682.31	3,032.11
	<i>For #10 AWG, Add</i>	1,878.37	
	<i>For Work In Restricted Working Space, Add</i>	1,515.67	
27 15 13 00-0013	#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit ^(27 15 13 00-0002)		
27 15 13 00-0014	MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,867.79	968.93
	<i>For Work In Restricted Working Space, Add</i>	484.36	
27 15 13 00-0015	MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,140.06	1,003.61
	<i>For Work In Restricted Working Space, Add</i>	501.81	
27 15 13 00-0016	MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,382.01	1,038.30
	<i>For Work In Restricted Working Space, Add</i>	519.26	
27 15 13 00-0017	MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,636.64	1,074.11
	<i>For Work In Restricted Working Space, Add</i>	537.05	
27 15 13 00-0018	MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,941.23	1,146.83
	<i>For Work In Restricted Working Space, Add</i>	573.30	
27 15 13 00-0019	MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,222.79	1,218.43
	<i>For Work In Restricted Working Space, Add</i>	608.88	
27 15 13 00-0020	MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,527.76	1,362.77
	<i>For Work In Restricted Working Space, Add</i>	681.38	
27 15 13 00-0021	MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,668.25	1,795.77
	<i>For Work In Restricted Working Space, Add</i>	897.88	
27 15 13 00-0022	MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,934.70	2,652.81
	<i>For Work In Restricted Working Space, Add</i>	1,326.52	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0023			#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0024	MLF		1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,665.23	864.88
			<i>For Work In Restricted Working Space, Add</i>	432.66	
27 15 13 00-0025	MLF		2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,851.55	896.21
			<i>For Work In Restricted Working Space, Add</i>	448.10	
27 15 13 00-0026	MLF		3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,118.54	927.54
			<i>For Work In Restricted Working Space, Add</i>	463.55	
27 15 13 00-0027	MLF		4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,344.24	958.87
			<i>For Work In Restricted Working Space, Add</i>	479.66	
27 15 13 00-0028	MLF		5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,613.47	1,023.76
			<i>For Work In Restricted Working Space, Add</i>	511.88	
27 15 13 00-0029	MLF		6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,863.26	1,087.53
			<i>For Work In Restricted Working Space, Add</i>	543.77	
27 15 13 00-0030	MLF		7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,998.55	1,152.42
			<i>For Work In Restricted Working Space, Add</i>	575.99	
27 15 13 00-0031	MLF		8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,134.95	1,217.32
			<i>For Work In Restricted Working Space, Add</i>	608.55	
27 15 13 00-0032	MLF		9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,448.03	1,294.52
			<i>For Work In Restricted Working Space, Add</i>	647.15	
27 15 13 00-0033	MLF		12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,147.67	1,603.32
			<i>For Work In Restricted Working Space, Add</i>	801.72	
27 15 13 00-0034	MLF		24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,160.81	2,368.62
			<i>For Work In Restricted Working Space, Add</i>	1,184.37	
27 15 13 00-0035			#18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0036	MLF		1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,426.26	761.94
			<i>For Work In Restricted Working Space, Add</i>	380.63	
27 15 13 00-0037	MLF		2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,605.26	788.79
			<i>For Work In Restricted Working Space, Add</i>	394.40	
27 15 13 00-0038	MLF		3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,765.39	815.65
			<i>For Work In Restricted Working Space, Add</i>	408.16	
27 15 13 00-0039	MLF		4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,932.72	843.62
			<i>For Work In Restricted Working Space, Add</i>	421.92	
27 15 13 00-0040	MLF		5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,142.09	900.69
			<i>For Work In Restricted Working Space, Add</i>	450.45	
27 15 13 00-0041	MLF		6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,337.40	956.63
			<i>For Work In Restricted Working Space, Add</i>	478.65	
27 15 13 00-0042	MLF		8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,565.84	1,070.75
			<i>For Work In Restricted Working Space, Add</i>	535.37	
27 15 13 00-0043	MLF		12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,393.52	1,410.88
			<i>For Work In Restricted Working Space, Add</i>	705.55	
27 15 13 00-0044	MLF		24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,036.58	2,084.44
			<i>For Work In Restricted Working Space, Add</i>	1,042.22	
27 15 13 00-0045			#20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0046	MLF		1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,274.57	692.57
			<i>For Work In Restricted Working Space, Add</i>	346.07	
27 15 13 00-0047	MLF		2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,418.93	717.18
			<i>For Work In Restricted Working Space, Add</i>	358.49	
27 15 13 00-0048	MLF		3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,547.47	742.36
			<i>For Work In Restricted Working Space, Add</i>	370.90	
27 15 13 00-0049	MLF		4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,682.20	767.53
			<i>For Work In Restricted Working Space, Add</i>	383.66	



Communications	27
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0050	MLF		5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,856.71	819.01
			<i>For Work In Restricted Working Space, Add</i>	409.33	
27 15 13 00-0051	MLF		6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,020.18	870.47
			<i>For Work In Restricted Working Space, Add</i>	435.01	
27 15 13 00-0052	MLF		8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,231.47	973.41
			<i>For Work In Restricted Working Space, Add</i>	486.71	
27 15 13 00-0053	MLF		12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,938.65	1,283.33
			<i>For Work In Restricted Working Space, Add</i>	641.44	
27 15 13 00-0054	MLF		24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,359.30	1,895.35
			<i>For Work In Restricted Working Space, Add</i>	947.56	
27 15 13 00-0055	MLF		25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,569.78	1,940.10
			<i>For Work In Restricted Working Space, Add</i>	970.05	
27 15 13 00-0056	MLF		36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,402.40	2,258.98
			<i>For Work In Restricted Working Space, Add</i>	1,129.49	
27 15 13 00-0057	MLF		40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,791.74	2,417.86
			<i>For Work In Restricted Working Space, Add</i>	1,209.03	
27 15 13 00-0058	MLF		50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,030.98	3,022.04
			<i>For Work In Restricted Working Space, Add</i>	1,510.79	
27 15 13 00-0059	MLF		100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,453.45	3,978.66
			<i>For Work In Restricted Working Space, Add</i>	1,989.10	
27 15 13 00-0060			#22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0061	MLF		1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,101.61	623.21
			<i>For Work In Restricted Working Space, Add</i>	311.49	
27 15 13 00-0062	MLF		2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,161.85	645.58
			<i>For Work In Restricted Working Space, Add</i>	322.57	
27 15 13 00-0063	MLF		3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,232.11	667.96
			<i>For Work In Restricted Working Space, Add</i>	333.98	
27 15 13 00-0064	MLF		4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,306.80	690.33
			<i>For Work In Restricted Working Space, Add</i>	345.39	
27 15 13 00-0065	MLF		5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,427.98	737.33
			<i>For Work In Restricted Working Space, Add</i>	368.55	
27 15 13 00-0066	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,548.42	780.96
			<i>For Work In Restricted Working Space, Add</i>	390.71	
27 15 13 00-0067			Triad <small>(27 15 13 00-0002)</small>		
27 15 13 00-0068	MLF		1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit.....	3,086.75	927.54
27 15 13 00-0069	MLF		4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	3,991.96	1,283.33
27 15 13 00-0070	MLF		8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	6,280.76	1,895.35
27 15 13 00-0071	MLF		12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	7,862.91	2,258.98
27 15 13 00-0072	MLF		24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	12,955.19	3,499.80
27 15 13 00-0073	MLF		36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	14,923.74	3,978.66
27 15 13 00-0074			Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0001)</small>		
27 15 13 00-0075			#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0076	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,957.62	2,215.34
			<i>For #10 AWG, Add</i>	825.98	
			<i>For Work In Restricted Working Space, Add</i>	1,107.77	
27 15 13 00-0077	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,313.05	2,293.66
			<i>For #10 AWG, Add</i>	926.20	
			<i>For Work In Restricted Working Space, Add</i>	1,147.17	
27 15 13 00-0078	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,637.39	2,374.22
			<i>For #10 AWG, Add</i>	1,016.07	
			<i>For Work In Restricted Working Space, Add</i>	1,186.77	
27 15 13 00-0079	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,978.45	2,454.78
			<i>For #10 AWG, Add</i>	1,110.86	
			<i>For Work In Restricted Working Space, Add</i>	1,227.76	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0080	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,446.80	2,620.37
			<i>For #10 AWG, Add</i>	1,229.53	
			<i>For Work In Restricted Working Space, Add</i>	1,310.57	
27 15 13 00-0081	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,889.55	2,783.73
			<i>For #10 AWG, Add</i>	1,340.25	
			<i>For Work In Restricted Working Space, Add</i>	1,392.23	
27 15 13 00-0082	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,505.57	3,114.90
			<i>For #10 AWG, Add</i>	1,472.07	
			<i>For Work In Restricted Working Space, Add</i>	1,557.16	
27 15 13 00-0083	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,595.76	4,106.21
			<i>For #10 AWG, Add</i>	1,947.09	
			<i>For Work In Restricted Working Space, Add</i>	2,052.71	
27 15 13 00-0084	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,734.51	6,064.21
			<i>For #10 AWG, Add</i>	2,888.81	
			<i>For Work In Restricted Working Space, Add</i>	3,031.33	
27 15 13 00-0085			#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0086	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,482.29	1,937.87
			<i>For Work In Restricted Working Space, Add</i>	968.71	
27 15 13 00-0087	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,812.75	2,007.24
			<i>For Work In Restricted Working Space, Add</i>	1,003.62	
27 15 13 00-0088	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,112.88	2,076.60
			<i>For Work In Restricted Working Space, Add</i>	1,038.53	
27 15 13 00-0089	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,426.81	2,148.21
			<i>For Work In Restricted Working Space, Add</i>	1,074.11	
27 15 13 00-0090	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,852.24	2,293.66
			<i>For Work In Restricted Working Space, Add</i>	1,146.61	
27 15 13 00-0091	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,252.40	2,436.88
			<i>For Work In Restricted Working Space, Add</i>	1,217.77	
27 15 13 00-0092	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,799.05	2,725.55
			<i>For Work In Restricted Working Space, Add</i>	1,362.77	
27 15 13 00-0093	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,661.19	3,591.54
			<i>For Work In Restricted Working Space, Add</i>	1,795.76	
27 15 13 00-0094	MLF		24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	11,356.43	5,305.63
			<i>For Work In Restricted Working Space, Add</i>	2,653.04	
27 15 13 00-0095			#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0096	MLF		1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,107.44	1,729.75
			<i>For Work In Restricted Working Space, Add</i>	865.33	
27 15 13 00-0097	MLF		2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,345.23	1,792.41
			<i>For Work In Restricted Working Space, Add</i>	896.21	
27 15 13 00-0098	MLF		3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,663.68	1,855.06
			<i>For Work In Restricted Working Space, Add</i>	927.09	
27 15 13 00-0099	MLF		4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,943.09	1,917.72
			<i>For Work In Restricted Working Space, Add</i>	959.31	
27 15 13 00-0100	MLF		5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,319.73	2,047.51
			<i>For Work In Restricted Working Space, Add</i>	1,023.76	
27 15 13 00-0101	MLF		6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,675.82	2,175.06
			<i>For Work In Restricted Working Space, Add</i>	1,087.53	
27 15 13 00-0102	MLF		7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,918.52	2,304.85
			<i>For Work In Restricted Working Space, Add</i>	1,151.98	
27 15 13 00-0103	MLF		8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,163.45	2,434.64
			<i>For Work In Restricted Working Space, Add</i>	1,217.10	
27 15 13 00-0104	MLF		9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,605.20	2,589.04
			<i>For Work In Restricted Working Space, Add</i>	1,294.30	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 6,820.07	6,820.07	3,206.65
For Work In Restricted Working Space, Add 1,603.44	1,603.44	
27 15 13 00-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 10,108.71	10,108.71	4,737.25
For Work In Restricted Working Space, Add 2,368.74	2,368.74	
27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,695.06	2,695.06	1,523.89
For Work In Restricted Working Space, Add 761.27	761.27	
27 15 13 00-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,919.92	2,919.92	1,577.59
For Work In Restricted Working Space, Add 788.80	788.80	
27 15 13 00-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,125.93	3,125.93	1,631.30
For Work In Restricted Working Space, Add 816.32	816.32	
27 15 13 00-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,339.14	3,339.14	1,687.24
For Work In Restricted Working Space, Add 843.85	843.85	
27 15 13 00-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,643.60	3,643.60	1,801.36
For Work In Restricted Working Space, Add 900.91	900.91	
27 15 13 00-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,932.89	3,932.89	1,913.25
For Work In Restricted Working Space, Add 957.30	957.30	
27 15 13 00-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,350.42	4,350.42	2,141.49
For Work In Restricted Working Space, Add 1,070.75	1,070.75	
27 15 13 00-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,745.36	5,745.36	2,821.76
For Work In Restricted Working Space, Add 1,411.10	1,411.10	
27 15 13 00-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 8,510.63	8,510.63	4,168.87
For Work In Restricted Working Space, Add 2,084.43	2,084.43	
27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0118 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,428.11	2,428.11	1,385.15
For Work In Restricted Working Space, Add 692.13	692.13	
27 15 13 00-0119 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,613.86	2,613.86	1,434.38
For Work In Restricted Working Space, Add 716.96	716.96	
27 15 13 00-0120 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,783.81	2,783.81	1,484.73
For Work In Restricted Working Space, Add 741.80	741.80	
27 15 13 00-0121 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,961.06	2,961.06	1,535.08
For Work In Restricted Working Space, Add 767.31	767.31	
27 15 13 00-0122 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,221.17	3,221.17	1,638.01
For Work In Restricted Working Space, Add 818.67	818.67	
27 15 13 00-0123 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,470.22	3,470.22	1,740.94
For Work In Restricted Working Space, Add 870.02	870.02	
27 15 13 00-0124 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,853.81	3,853.81	1,946.82
For Work In Restricted Working Space, Add 973.41	973.41	
27 15 13 00-0125 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,076.79	5,076.79	2,566.67
For Work In Restricted Working Space, Add 1,282.88	1,282.88	
27 15 13 00-0126 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 7,517.83	7,517.83	3,790.69
For Work In Restricted Working Space, Add 1,895.12	1,895.12	
27 15 13 00-0127 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 7,803.26	7,803.26	3,880.20
For Work In Restricted Working Space, Add 1,940.09	1,940.09	
27 15 13 00-0128 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 9,167.37	9,167.37	4,517.95
For Work In Restricted Working Space, Add 2,258.99	2,258.99	
27 15 13 00-0129 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 9,821.87	9,821.87	4,835.71
For Work In Restricted Working Space, Add 2,418.07	2,418.07	
27 15 13 00-0130 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 12,066.93	12,066.93	6,044.08
For Work In Restricted Working Space, Add 3,021.58	3,021.58	
27 15 13 00-0131 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 16,083.77	16,083.77	7,957.33
For Work In Restricted Working Space, Add 3,978.19	3,978.19	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0132 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0133 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,139.91	1,246.41
<i>For Work In Restricted Working Space, Add</i>	622.98	
27 15 13 00-0134 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,237.08	1,291.17
<i>For Work In Restricted Working Space, Add</i>	645.14	
27 15 13 00-0135 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,345.37	1,335.92
<i>For Work In Restricted Working Space, Add</i>	667.96	
27 15 13 00-0136 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,458.10	1,380.68
<i>For Work In Restricted Working Space, Add</i>	690.78	
27 15 13 00-0137 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,656.48	1,474.66
<i>For Work In Restricted Working Space, Add</i>	737.10	
27 15 13 00-0138 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,850.77	1,561.93
<i>For Work In Restricted Working Space, Add</i>	781.41	
27 15 13 00-0139 Triad, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0140 MLF 1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,086.75	927.54
27 15 13 00-0141 MLF 4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,991.96	1,283.33
27 15 13 00-0142 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	6,280.76	1,895.35
27 15 13 00-0143 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	7,862.91	2,258.98
27 15 13 00-0144 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	12,955.19	3,499.80
27 15 13 00-0145 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	14,923.74	3,978.66
27 15 13 00-0146 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0147 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0148 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,828.65	968.93
<i>For Work In Restricted Working Space, Add</i>	484.36	
27 15 13 00-0149 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,067.84	1,003.61
<i>For Work In Restricted Working Space, Add</i>	501.81	
27 15 13 00-0150 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,281.40	1,038.30
<i>For Work In Restricted Working Space, Add</i>	519.26	
27 15 13 00-0151 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,505.84	1,074.11
<i>For Work In Restricted Working Space, Add</i>	537.05	
27 15 13 00-0152 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,779.81	1,145.71
<i>For Work In Restricted Working Space, Add</i>	572.63	
27 15 13 00-0153 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,037.29	1,217.32
<i>For Work In Restricted Working Space, Add</i>	608.55	
27 15 13 00-0154 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,333.60	1,362.77
<i>For Work In Restricted Working Space, Add</i>	681.38	
27 15 13 00-0155 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,409.37	1,795.77
<i>For Work In Restricted Working Space, Add</i>	897.88	
27 15 13 00-0156 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,546.38	2,652.81
<i>For Work In Restricted Working Space, Add</i>	1,326.52	
27 15 13 00-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0158 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,630.77	864.88
<i>For Work In Restricted Working Space, Add</i>	432.66	
27 15 13 00-0159 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,841.63	896.21
<i>For Work In Restricted Working Space, Add</i>	448.10	
27 15 13 00-0160 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,029.93	927.54
<i>For Work In Restricted Working Space, Add</i>	463.55	
27 15 13 00-0161 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,229.06	958.87
<i>For Work In Restricted Working Space, Add</i>	479.66	
27 15 13 00-0162 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,472.17	1,022.64
<i>For Work In Restricted Working Space, Add</i>	511.54	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0163 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,700.90	1,087.53
<i>For Work In Restricted Working Space, Add</i>	543.77	
27 15 13 00-0164 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,831.88	1,152.42
<i>For Work In Restricted Working Space, Add</i>	575.99	
27 15 13 00-0165 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,024.44	1,217.32
<i>For Work In Restricted Working Space, Add</i>	608.55	
27 15 13 00-0166 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,318.98	1,294.52
<i>For Work In Restricted Working Space, Add</i>	647.11	
27 15 13 00-0167 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,919.71	1,603.32
<i>For Work In Restricted Working Space, Add</i>	801.72	
27 15 13 00-0168 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,819.41	2,368.63
<i>For Work In Restricted Working Space, Add</i>	1,184.54	
27 15 13 00-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0170 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,426.15	760.83
<i>For Work In Restricted Working Space, Add</i>	380.63	
27 15 13 00-0171 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,596.85	788.79
<i>For Work In Restricted Working Space, Add</i>	394.40	
27 15 13 00-0172 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,707.83	816.77
<i>For Work In Restricted Working Space, Add</i>	408.16	
27 15 13 00-0173 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,851.39	843.62
<i>For Work In Restricted Working Space, Add</i>	421.92	
27 15 13 00-0174 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,033.32	900.69
<i>For Work In Restricted Working Space, Add</i>	450.45	
27 15 13 00-0175 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,214.14	957.74
<i>For Work In Restricted Working Space, Add</i>	478.65	
27 15 13 00-0176 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,631.14	1,070.75
<i>For Work In Restricted Working Space, Add</i>	535.37	
27 15 13 00-0177 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,425.68	1,410.88
<i>For Work In Restricted Working Space, Add</i>	705.55	
27 15 13 00-0178 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,646.91	2,084.44
<i>For Work In Restricted Working Space, Add</i>	1,042.22	
27 15 13 00-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0180 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,264.64	692.57
<i>For Work In Restricted Working Space, Add</i>	346.07	
27 15 13 00-0181 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,384.32	717.18
<i>For Work In Restricted Working Space, Add</i>	358.49	
27 15 13 00-0182 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,623.58	816.77
<i>For Work In Restricted Working Space, Add</i>	408.16	
27 15 13 00-0183 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,772.05	858.62
<i>For Work In Restricted Working Space, Add</i>	429.31	
27 15 13 00-0184 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,917.71	900.69
<i>For Work In Restricted Working Space, Add</i>	450.45	
27 15 13 00-0185 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,077.53	957.74
<i>For Work In Restricted Working Space, Add</i>	478.65	
27 15 13 00-0186 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,291.74	1,065.83
<i>For Work In Restricted Working Space, Add</i>	533.03	
27 15 13 00-0187 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,814.95	1,283.33
<i>For Work In Restricted Working Space, Add</i>	641.44	
27 15 13 00-0188 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,173.75	1,895.35
<i>For Work In Restricted Working Space, Add</i>	947.56	
27 15 13 00-0189 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,363.29	1,940.10
<i>For Work In Restricted Working Space, Add</i>	970.05	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0190	MLF		36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,149.37	2,258.98
			<i>For Work In Restricted Working Space, Add</i>	1,129.49	
27 15 13 00-0191	MLF		40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,519.52	2,417.86
			<i>For Work In Restricted Working Space, Add</i>	1,209.03	
27 15 13 00-0192	MLF		50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,722.70	3,022.04
			<i>For Work In Restricted Working Space, Add</i>	1,510.79	
27 15 13 00-0193	MLF		100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,017.20	3,978.66
			<i>For Work In Restricted Working Space, Add</i>	1,989.10	
27 15 13 00-0194			#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0148)</small>		
27 15 13 00-0195	MLF		1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,111.95	623.21
			<i>For Work In Restricted Working Space, Add</i>	311.49	
27 15 13 00-0196	MLF		2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,176.00	645.58
			<i>For Work In Restricted Working Space, Add</i>	322.57	
27 15 13 00-0197	MLF		3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,256.57	667.96
			<i>For Work In Restricted Working Space, Add</i>	333.98	
27 15 13 00-0198	MLF		4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,343.42	690.33
			<i>For Work In Restricted Working Space, Add</i>	345.39	
27 15 13 00-0199	MLF		5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,466.29	737.33
			<i>For Work In Restricted Working Space, Add</i>	368.55	
27 15 13 00-0200	MLF		6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,595.67	780.96
			<i>For Work In Restricted Working Space, Add</i>	390.71	
27 15 13 00-0201			Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0001)</small>		
27 15 13 00-0202			#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0203	MLF		1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,443.15	1,937.87
			<i>For Work In Restricted Working Space, Add</i>	968.71	
27 15 13 00-0204	MLF		2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,740.53	2,007.24
			<i>For Work In Restricted Working Space, Add</i>	1,003.62	
27 15 13 00-0205	MLF		3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,012.27	2,076.60
			<i>For Work In Restricted Working Space, Add</i>	1,038.53	
27 15 13 00-0206	MLF		4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,296.01	2,148.21
			<i>For Work In Restricted Working Space, Add</i>	1,074.11	
27 15 13 00-0207	MLF		5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,688.58	2,291.42
			<i>For Work In Restricted Working Space, Add</i>	1,145.27	
27 15 13 00-0208	MLF		6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,065.79	2,434.64
			<i>For Work In Restricted Working Space, Add</i>	1,217.10	
27 15 13 00-0209	MLF		8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,604.89	2,725.55
			<i>For Work In Restricted Working Space, Add</i>	1,362.77	
27 15 13 00-0210	MLF		12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,402.31	3,591.54
			<i>For Work In Restricted Working Space, Add</i>	1,795.76	
27 15 13 00-0211	MLF		24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,968.11	5,305.63
			<i>For Work In Restricted Working Space, Add</i>	2,653.04	
27 15 13 00-0212			#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0213	MLF		1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,072.98	1,729.75
			<i>For Work In Restricted Working Space, Add</i>	865.33	
27 15 13 00-0214	MLF		2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,335.31	1,792.41
			<i>For Work In Restricted Working Space, Add</i>	896.21	
27 15 13 00-0215	MLF		3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,575.07	1,855.06
			<i>For Work In Restricted Working Space, Add</i>	927.09	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0216	MLF			4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,827.91	3,827.91	1,917.72
				<i>For Work In Restricted Working Space, Add</i> 959.31	959.31	
27 15 13 00-0217	MLF			5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,177.32	4,177.32	2,045.27
				<i>For Work In Restricted Working Space, Add</i> 1,023.09	1,023.09	
27 15 13 00-0218	MLF			6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,513.46	4,513.46	2,175.06
				<i>For Work In Restricted Working Space, Add</i> 1,087.53	1,087.53	
27 15 13 00-0219	MLF			7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,751.85	4,751.85	2,304.85
				<i>For Work In Restricted Working Space, Add</i> 1,151.98	1,151.98	
27 15 13 00-0220	MLF			8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,052.94	5,052.94	2,434.64
				<i>For Work In Restricted Working Space, Add</i> 1,217.10	1,217.10	
27 15 13 00-0221	MLF			9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,476.04	5,476.04	2,589.04
				<i>For Work In Restricted Working Space, Add</i> 1,294.23	1,294.23	
27 15 13 00-0222	MLF			12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 6,592.10	6,592.10	3,206.65
				<i>For Work In Restricted Working Space, Add</i> 1,603.44	1,603.44	
27 15 13 00-0223	MLF			24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 9,767.84	9,767.84	4,737.25
				<i>For Work In Restricted Working Space, Add</i> 2,369.06	2,369.06	
27 15 13 00-0224				#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0225	MLF			1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,694.95	2,694.95	1,521.65
				<i>For Work In Restricted Working Space, Add</i> 761.27	761.27	
27 15 13 00-0226	MLF			2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,911.51	2,911.51	1,577.59
				<i>For Work In Restricted Working Space, Add</i> 788.80	788.80	
27 15 13 00-0227	MLF			3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,068.37	3,068.37	1,633.54
				<i>For Work In Restricted Working Space, Add</i> 816.32	816.32	
27 15 13 00-0228	MLF			4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,257.81	3,257.81	1,687.24
				<i>For Work In Restricted Working Space, Add</i> 843.85	843.85	
27 15 13 00-0229	MLF			5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,534.83	3,534.83	1,801.36
				<i>For Work In Restricted Working Space, Add</i> 900.91	900.91	
27 15 13 00-0230	MLF			6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,809.63	3,809.63	1,915.49
				<i>For Work In Restricted Working Space, Add</i> 957.30	957.30	
27 15 13 00-0231	MLF			8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,415.72	4,415.72	2,141.49
				<i>For Work In Restricted Working Space, Add</i> 1,070.75	1,070.75	
27 15 13 00-0232	MLF			12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,777.52	5,777.52	2,821.76
				<i>For Work In Restricted Working Space, Add</i> 1,411.10	1,411.10	
27 15 13 00-0233	MLF			24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 8,120.96	8,120.96	4,168.87
				<i>For Work In Restricted Working Space, Add</i> 2,084.43	2,084.43	
27 15 13 00-0234				#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0235	MLF			1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,418.18	2,418.18	1,385.15
				<i>For Work In Restricted Working Space, Add</i> 692.13	692.13	
27 15 13 00-0236	MLF			2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,579.25	2,579.25	1,434.38
				<i>For Work In Restricted Working Space, Add</i> 716.96	716.96	
27 15 13 00-0237	MLF			3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,984.12	2,984.12	1,633.54
				<i>For Work In Restricted Working Space, Add</i> 816.32	816.32	
27 15 13 00-0238	MLF			4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,203.06	3,203.06	1,717.22
				<i>For Work In Restricted Working Space, Add</i> 858.61	858.61	
27 15 13 00-0239	MLF			5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,419.22	3,419.22	1,801.36
				<i>For Work In Restricted Working Space, Add</i> 900.91	900.91	
27 15 13 00-0240	MLF			6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,673.02	3,673.02	1,915.49
				<i>For Work In Restricted Working Space, Add</i> 957.30	957.30	
27 15 13 00-0241	MLF			8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,068.49	4,068.49	2,131.65
				<i>For Work In Restricted Working Space, Add</i> 1,066.05	1,066.05	
27 15 13 00-0242	MLF			12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,953.09	4,953.09	2,566.67
				<i>For Work In Restricted Working Space, Add</i> 1,282.88	1,282.88	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0243	MLF		24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,332.28	3,790.69
			<i>For Work In Restricted Working Space, Add</i>	1,895.12	
27 15 13 00-0244	MLF		25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,596.77	3,880.20
			<i>For Work In Restricted Working Space, Add</i>	1,940.09	
27 15 13 00-0245	MLF		36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,914.34	4,517.95
			<i>For Work In Restricted Working Space, Add</i>	2,258.99	
27 15 13 00-0246	MLF		40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,549.65	4,835.71
			<i>For Work In Restricted Working Space, Add</i>	2,418.07	
27 15 13 00-0247	MLF		50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,758.65	6,044.08
			<i>For Work In Restricted Working Space, Add</i>	3,021.58	
27 15 13 00-0248	MLF		100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	15,647.52	7,957.33
			<i>For Work In Restricted Working Space, Add</i>	3,978.19	
27 15 13 00-0249			#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0250	MLF		1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,150.25	1,246.41
			<i>For Work In Restricted Working Space, Add</i>	622.98	
27 15 13 00-0251	MLF		2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,251.23	1,291.17
			<i>For Work In Restricted Working Space, Add</i>	645.14	
27 15 13 00-0252	MLF		3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,369.83	1,335.92
			<i>For Work In Restricted Working Space, Add</i>	667.96	
27 15 13 00-0253	MLF		4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,494.72	1,380.68
			<i>For Work In Restricted Working Space, Add</i>	690.78	
27 15 13 00-0254	MLF		5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,694.79	1,474.66
			<i>For Work In Restricted Working Space, Add</i>	737.10	
27 15 13 00-0255	MLF		6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,898.02	1,561.93
			<i>For Work In Restricted Working Space, Add</i>	781.41	
27 15 13 00-0256			Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench <small>(27 15 13 00-0001)</small>		
			Note: Excludes excavation.		
27 15 13 00-0257	MLF		1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,744.71	
27 15 13 00-0258	MLF		2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,011.13	
27 15 13 00-0259	MLF		3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,248.61	
27 15 13 00-0260	MLF		4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,499.25	
27 15 13 00-0261	MLF		5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,794.33	
27 15 13 00-0262	MLF		6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,067.46	
27 15 13 00-0263			Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) <small>(27 15 13 00-0001)</small>		
27 15 13 00-0264	MLF		1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	1,852.29	605.50
27 15 13 00-0265	MLF		2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,180.60	648.70
27 15 13 00-0266	MLF		3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,816.85	820.08
27 15 13 00-0267	MLF		4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,351.46	948.53
27 15 13 00-0268	MLF		5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	10,656.67	1,081.12
27 15 13 00-0269	MLF		6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	12,683.19	1,381.21
27 15 13 00-0270			Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0271	MLF		1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,662.52	864.88
27 15 13 00-0272	MLF		2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,013.45	896.21
27 15 13 00-0273	MLF		3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,260.37	927.54
27 15 13 00-0274	MLF		4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,392.04	958.87
27 15 13 00-0275	MLF		5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,875.77	1,022.64
27 15 13 00-0276	MLF		6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,112.01	1,087.53
27 15 13 00-0277	MLF		8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,899.71	1,217.32
27 15 13 00-0278	MLF		12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,841.42	1,603.32



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,353.03	2,368.63
27 15 13 00-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,435.85	760.83
27 15 13 00-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,723.95	788.79
27 15 13 00-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,962.14	816.77
27 15 13 00-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,079.73	843.62
27 15 13 00-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,492.91	900.69
27 15 13 00-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,801.31	957.74
27 15 13 00-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,164.52	1,070.75
27 15 13 00-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,087.99	1,410.88
27 15 13 00-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,536.74	2,084.44
27 15 13 00-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,267.90	692.57
27 15 13 00-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,450.68	717.18
27 15 13 00-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,627.79	741.81
27 15 13 00-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,739.38	767.53
27 15 13 00-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,894.62	819.01
27 15 13 00-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,069.49	870.47
27 15 13 00-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,317.82	973.41
27 15 13 00-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,198.50	1,283.33
27 15 13 00-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,861.84	1,895.35
27 15 13 00-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,128.90	1,940.10
27 15 13 00-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,055.23	2,258.98
27 15 13 00-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,529.03	2,417.86
27 15 13 00-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,865.93	3,022.04
27 15 13 00-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,634.98	3,978.66
27 15 13 00-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	20,567.31	7,328.53
27 15 13 00-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,087.10	9,698.28
27 15 13 00-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	41,644.74	12,221.30
27 15 13 00-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	58,659.79	16,763.88
27 15 13 00-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,226.70	692.57
27 15 13 00-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,358.53	717.18
27 15 13 00-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,486.74	741.81
27 15 13 00-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,573.44	767.53
27 15 13 00-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,703.79	819.01
27 15 13 00-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,846.28	870.47
27 15 13 00-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,067.22	973.41
27 15 13 00-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,816.43	1,283.33
27 15 13 00-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,248.10	1,895.35
27 15 13 00-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,445.95	1,940.10
27 15 13 00-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,250.76	2,258.98
27 15 13 00-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,628.61	2,417.86
27 15 13 00-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,846.22	3,022.04
27 15 13 00-0320 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,192.02	3,978.66

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0321	MLF		250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	17,513.61	7,328.53
27 15 13 00-0322	MLF		500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	25,695.74	9,698.28
27 15 13 00-0323	MLF		750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,959.95	12,221.30
27 15 13 00-0324	MLF		1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	47,565.38	16,763.88
27 15 13 00-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)					
27 15 13 00-0326	MLF		1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,687.74	864.88
27 15 13 00-0327	MLF		2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,933.93	896.21
27 15 13 00-0328	MLF		3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,087.01	927.54
27 15 13 00-0329	MLF		4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,291.98	958.87
27 15 13 00-0330	MLF		5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,535.99	1,022.64
27 15 13 00-0331	MLF		6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,777.74	1,087.53
27 15 13 00-0332	MLF		8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,349.28	1,217.32
27 15 13 00-0333	MLF		12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,349.34	1,603.32
27 15 13 00-0334	MLF		24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,488.43	2,368.63
27 15 13 00-0335	MLF		1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,477.49	760.83
27 15 13 00-0336	MLF		2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,688.88	788.79
27 15 13 00-0337	MLF		3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,821.11	816.77
27 15 13 00-0338	MLF		4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,996.53	843.62
27 15 13 00-0339	MLF		5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,206.78	900.69
27 15 13 00-0340	MLF		6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,415.92	957.74
27 15 13 00-0341	MLF		8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,907.25	1,070.75
27 15 13 00-0342	MLF		12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,776.78	1,410.88
27 15 13 00-0343	MLF		24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,633.03	2,084.44
27 15 13 00-0344	MLF		1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,300.87	692.57
27 15 13 00-0345	MLF		2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,482.81	717.18
27 15 13 00-0346	MLF		3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,610.56	741.81
27 15 13 00-0347	MLF		4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,841.69	767.53
27 15 13 00-0348	MLF		5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,045.72	819.01
27 15 13 00-0349	MLF		6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,436.23	870.47
27 15 13 00-0350	MLF		8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,723.01	973.41
27 15 13 00-0351	MLF		12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,442.00	1,283.33
27 15 13 00-0352	MLF		24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,190.51	1,895.35
27 15 13 00-0353	MLF		25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,493.45	1,940.10
27 15 13 00-0354	MLF		36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,534.43	2,258.98
27 15 13 00-0355	MLF		40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,009.65	2,417.86
27 15 13 00-0356	MLF		50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,410.21	3,022.04
27 15 13 00-0357	MLF		100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,405.21	3,978.66
27 15 13 00-0358	MLF		250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,198.06	7,328.53
27 15 13 00-0359	MLF		500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,965.88	9,698.28
27 15 13 00-0360	MLF		750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	45,747.61	12,221.30
27 15 13 00-0361	MLF		1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	64,582.99	16,762.75



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,247.78	692.57
27 15 13 00-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,379.09	717.18
27 15 13 00-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,475.73	741.81
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,638.89	767.53
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,800.45	819.01
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,080.89	870.47
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,326.42	973.41
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,972.19	1,283.33
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,458.34	1,895.35
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,679.14	1,940.10
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,536.52	2,258.98
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,936.06	2,417.86
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,194.39	3,022.04
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,684.71	3,978.66
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	18,556.69	7,328.53
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	27,537.31	9,698.28
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	36,585.02	12,221.30
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	51,355.37	16,763.88
27 15 13 00-0380 Copper Telecommunications Cable <small>(27 15 13)</small>		
27 15 13 00-0381 Indoor Telecommunications Cable <small>(27 15 13 00-0380)</small>		
Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0382 Category 3, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0382)</small>		
27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0383)</small>		
27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0384)</small>		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	964.69	514.27
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,010.60	514.27
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,026.83	514.27
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,240.63	587.74
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,578.60	587.74
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,115.23	587.74
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,374.74	734.67
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,104.97	1,175.47
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	8,269.28	1,322.40
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	10,990.19	1,469.34
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	16,075.66	2,057.07
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	21,072.07	2,541.95
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	33,396.45	3,526.41
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	54,229.79	7,052.82
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	73,717.05	10,579.23
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0384)</small>		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,821.81	1,028.54
<i>For Work In Restricted Working Space, Add</i>		
	514.27	
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,867.72	1,028.54
<i>For Work In Restricted Working Space, Add</i>		
	514.27	
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,883.95	1,028.54
<i>For Work In Restricted Working Space, Add</i>		
	514.27	
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,975.30	1,028.54
<i>For Work In Restricted Working Space, Add</i>		
	514.27	
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,313.27	1,028.54
<i>For Work In Restricted Working Space, Add</i>		
	514.27	
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,094.79	1,175.47
<i>For Work In Restricted Working Space, Add</i>		
	587.74	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,599.19 734.67	1,469.34
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,084.53 881.60	1,763.21
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,371.29 991.80	1,983.61
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,214.64 1,102.01	2,204.00
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	17,789.89 1,542.80	3,085.61
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	23,202.62 1,910.14	3,820.28
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	36,335.13 2,644.81	5,289.61
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	60,107.14 5,289.62	10,579.23
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	82,533.09 7,934.43	15,868.85
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,451.85	587.74
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,148.90	734.67
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	9,412.17	1,175.47
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	16,750.71	1,469.34
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	24,642.41	2,057.07
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	32,105.85	2,541.95
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	47,615.12	3,526.41
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,431.41 587.74	1,175.47
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,373.35 734.67	1,469.34
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,391.73 881.60	1,763.21
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	17,975.16 1,102.01	2,204.00
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	26,356.64 1,542.80	3,085.61
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	34,236.40 1,910.14	3,820.28
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	50,553.80 2,644.81	5,289.61
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,001.82	514.27
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,047.55	514.27
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,081.74	514.27
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,302.30	587.74
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,670.70	587.74
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,669.34	587.74
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,502.86	734.67
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	8,468.67	1,175.47
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	14,694.25	1,469.34
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	22,028.62	2,057.07
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,858.94 514.27	1,028.54
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,904.67 514.27	1,028.54
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,938.86 514.27	1,028.54
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,036.97 514.27	1,028.54
27 15 13 00-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,405.37 514.27	1,028.54



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,648.90 587.74	1,175.47
27 15 13 00-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,727.31 734.67	1,469.34
27 15 13 00-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,448.23 881.60	1,763.21
27 15 13 00-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	15,918.70 1,102.01	2,204.00
27 15 13 00-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	23,742.85 1,542.80	3,085.61
27 15 13 00-0458 Category 5E, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0459 Category 5E, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0459)</small>		
27 15 13 00-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	987.82	514.27
27 15 13 00-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,018.44	514.27
27 15 13 00-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,141.47	587.74
27 15 13 00-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,172.08	587.74
27 15 13 00-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0459)</small>		
27 15 13 00-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,844.94 514.27	1,028.54
27 15 13 00-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,875.56 514.27	1,028.54
27 15 13 00-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,121.03 587.74	1,175.47
27 15 13 00-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,151.64 587.74	1,175.47
27 15 13 00-0470 Category 5E, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0470)</small>		
27 15 13 00-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,100.41	514.27
27 15 13 00-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,462.09	587.74
27 15 13 00-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0470)</small>		
27 15 13 00-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,957.53 514.27	1,028.54
27 15 13 00-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,441.65 587.74	1,175.47
27 15 13 00-0477 Category 6, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0478 Category 6, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0478)</small>		
27 15 13 00-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,211.73	514.27
27 15 13 00-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,251.39	514.27
27 15 13 00-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0478)</small>		
27 15 13 00-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,068.85 514.27	1,028.54
27 15 13 00-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,108.51 514.27	1,028.54
27 15 13 00-0485 Category 6, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0485)</small>		
27 15 13 00-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,450.50	514.27
27 15 13 00-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0485)</small>		
27 15 13 00-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,307.62 514.27	1,028.54
27 15 13 00-0490 Category 6A, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0490)</small>		

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0492		Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0491)		
27 15 13 00-0493	MLF	4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,275.09	514.27
27 15 13 00-0494		Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0491)		
27 15 13 00-0495	MLF	4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,132.21 514.27	1,028.54
27 15 13 00-0496		Category 6A, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0490)		
27 15 13 00-0497		Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0496)		
27 15 13 00-0498	MLF	4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,604.72	514.27
27 15 13 00-0499		Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0496)		
27 15 13 00-0500	MLF	4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,461.84 514.27	1,028.54
27 15 13 00-0501		Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0381)		
27 15 13 00-0502		Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0501)		
27 15 13 00-0503	MLF	4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,590.90	587.74
27 15 13 00-0504	MLF	4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	4,214.55	587.74
27 15 13 00-0505		Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0501)		
27 15 13 00-0506	MLF	4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,570.46 587.74	1,175.47
27 15 13 00-0507	MLF	4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,194.11 587.74	1,175.47
27 15 13 00-0508		Outdoor Telecommunications Cable ^(27 15 13 00-0380) Note: Cable buried in trench excludes excavation.		
27 15 13 00-0509		PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0508) Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0510		24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0511		24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0510)		
27 15 13 00-0512	MLF	6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,848.54	587.74
27 15 13 00-0513	MLF	12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,216.09	1,028.54
27 15 13 00-0514	MLF	25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,130.32	661.20
27 15 13 00-0515	MLF	50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,761.15	734.67
27 15 13 00-0516	MLF	75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,750.17	1,028.54
27 15 13 00-0517	MLF	100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	8,497.80	1,175.47
27 15 13 00-0518	MLF	200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	14,611.57	1,322.40
27 15 13 00-0519	MLF	300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	21,480.52	1,910.14
27 15 13 00-0520	MLF	400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	28,463.68	2,497.88
27 15 13 00-0521	MLF	600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	38,656.86	3,379.47
27 15 13 00-0522	MLF	900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	61,007.27	6,758.95
27 15 13 00-0523	MLF	1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	83,364.13	9,991.49
27 15 13 00-0524		24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0510)		
27 15 13 00-0525	MLF	6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,664.87	
27 15 13 00-0526	MLF	12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,032.42	
27 15 13 00-0527	MLF	25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,885.42	
27 15 13 00-0528	MLF	50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,516.26	
27 15 13 00-0529	MLF	75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	6,382.83	
27 15 13 00-0530	MLF	100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,885.57	
27 15 13 00-0531	MLF	200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	14,366.69	
27 15 13 00-0532	MLF	300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	20,745.85	
27 15 13 00-0533	MLF	400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	26,933.12	
27 15 13 00-0534	MLF	600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	35,963.08	
27 15 13 00-0535	MLF	900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	53,660.58	
27 15 13 00-0536	MLF	1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	72,588.98	
27 15 13 00-0537		22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0538		22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0537)		
27 15 13 00-0539	MLF	6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,082.21	587.74
27 15 13 00-0540	MLF	12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,652.65	587.74



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0541 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,023.92	661.20
27 15 13 00-0542 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,351.65	734.67
27 15 13 00-0543 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	9,235.68	1,028.54
27 15 13 00-0544 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	11,876.79	1,175.47
27 15 13 00-0545 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	21,130.11	1,322.40
27 15 13 00-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	30,777.27	1,910.14
27 15 13 00-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	40,996.50	2,497.88
27 15 13 00-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	60,543.11	3,379.47
27 15 13 00-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	88,647.80	6,758.95
27 15 13 00-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	124,716.90	9,991.49
27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0537)		
27 15 13 00-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,898.54	
27 15 13 00-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,468.98	
27 15 13 00-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,779.02	
27 15 13 00-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	6,106.76	
27 15 13 00-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	8,868.34	
27 15 13 00-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	11,509.45	
27 15 13 00-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	20,885.23	
27 15 13 00-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	30,042.60	
27 15 13 00-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	39,465.94	
27 15 13 00-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	57,849.33	
27 15 13 00-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	81,301.11	
27 15 13 00-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	113,941.75	
27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)		
27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0564)		
27 15 13 00-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,778.69	661.20
27 15 13 00-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	11,736.34	734.67
27 15 13 00-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	18,814.06	1,028.54
27 15 13 00-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	22,542.31	1,175.47
27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0564)		
27 15 13 00-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	6,533.79	
27 15 13 00-0572 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	11,491.45	
27 15 13 00-0573 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	18,446.72	
27 15 13 00-0574 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	22,174.97	
27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0576)		
27 15 13 00-0578 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	2,616.07	1,028.54
27 15 13 00-0579 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	3,065.73	1,028.54
27 15 13 00-0580 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	3,972.91	1,028.54
27 15 13 00-0581 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	5,606.55	1,028.54
27 15 13 00-0582 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	8,919.83	1,028.54
27 15 13 00-0583 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	16,136.80	1,322.40
27 15 13 00-0584 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	23,561.00	1,910.14
27 15 13 00-0585 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	30,998.72	2,497.88
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	42,358.21	3,379.47
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	65,794.04	6,758.95
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	95,779.08	9,991.49
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0576)		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,248.73	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,698.39	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,605.57	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,239.21	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	8,552.49	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	15,891.92	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	22,826.33	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	29,468.16	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	39,664.43	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	58,447.35	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	85,003.93	
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0602 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0601)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0603	MLF		6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,876.03	1,028.54
27 15 13 00-0604	MLF		12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,536.79	1,028.54
27 15 13 00-0605	MLF		25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,942.92	1,028.54
27 15 13 00-0606	MLF		50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,529.70	1,028.54
27 15 13 00-0607	MLF		100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	12,927.97	1,028.54
27 15 13 00-0608	MLF		200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,850.39	1,322.40
27 15 13 00-0609	MLF		300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	34,947.21	1,910.14
27 15 13 00-0610	MLF		400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	44,770.12	2,497.88
27 15 13 00-0611	MLF		600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	62,536.48	3,379.47
27 15 13 00-0612	MLF		900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	98,467.34	6,758.95
27 15 13 00-0613			22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0601)		
27 15 13 00-0614	MLF		6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,508.69	
27 15 13 00-0615	MLF		12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,169.45	
27 15 13 00-0616	MLF		25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,575.58	
27 15 13 00-0617	MLF		50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,162.36	
27 15 13 00-0618	MLF		100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,560.63	
27 15 13 00-0619	MLF		200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	23,605.51	
27 15 13 00-0620	MLF		300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	34,212.54	
27 15 13 00-0621	MLF		400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	43,239.56	
27 15 13 00-0622	MLF		600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	59,842.70	
27 15 13 00-0623	MLF		900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	91,120.65	
27 15 13 00-0624			19 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0575)		
27 15 13 00-0625			19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0624)		
27 15 13 00-0626	MLF		25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,057.83	1,028.54
27 15 13 00-0627	MLF		50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	13,304.16	1,028.54
27 15 13 00-0628	MLF		100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	24,183.20	1,028.54
27 15 13 00-0629			19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0624)		
27 15 13 00-0630	MLF		25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,690.49	
27 15 13 00-0631	MLF		50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,936.82	
27 15 13 00-0632	MLF		100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	23,815.86	
27 15 13 00-0633			(Aerial) Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
			Note: Includes support wire.		
27 15 13 00-0634			24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0635	MLF		6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,659.32	2,075.83
27 15 13 00-0636	MLF		12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,033.46	2,075.83
27 15 13 00-0637	MLF		25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,962.38	2,075.83
27 15 13 00-0638	MLF		50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,682.25	2,075.83
27 15 13 00-0639	MLF		100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,004.17	2,075.83
27 15 13 00-0640	MLF		200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	21,091.48	2,283.41
27 15 13 00-0641	MLF		300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	28,219.89	2,491.00
27 15 13 00-0642			22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0643	MLF		6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,106.94	2,075.83
27 15 13 00-0644	MLF		12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,659.71	2,075.83
27 15 13 00-0645	MLF		25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,991.12	2,075.83
27 15 13 00-0646	MLF		50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,621.43	2,075.83
27 15 13 00-0647	MLF		100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	18,505.53	2,075.83
27 15 13 00-0648	MLF		200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	29,108.18	2,283.41
27 15 13 00-0649			19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0650	MLF		6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,698.73	2,075.83
27 15 13 00-0651	MLF		12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,948.80	2,075.83
27 15 13 00-0652	MLF		25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,406.64	2,075.83
27 15 13 00-0653	MLF		50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,322.36	2,075.83
27 15 13 00-0654	MLF		100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	27,295.07	2,075.83
27 15 13 00-0655			Sound System Cables ^(27 15 13 00-0655)		
			Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656			Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0655)		
27 15 13 00-0657			Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0656)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,881.61	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,775.30	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,693.30	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,782.97	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,071.19	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,358.47	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,072.41	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,934.01	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0658)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,925.53	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,803.23	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,734.01	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,849.52	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,093.56	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,066.63	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,897.47	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,185.02	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 2,471.78	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,768.72	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed 1,825.86	469.92	783.20
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0655)</small>		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 1,098.40		391.60
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 992.09		391.60
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 910.09		391.60
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 999.76		391.60
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 1,287.98		391.60
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit 1,575.26		391.60
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit 1,289.20		391.60
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit 1,150.80		391.60

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,142.32	391.60
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,020.02	391.60
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	950.80	391.60
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,066.31	391.60
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,310.35	391.60
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,283.42	391.60
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,114.26	391.60
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,401.81	391.60
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,688.57	391.60
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,042.65	391.60
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	985.51	391.60
27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 23 00-0001 Indoor Fiber Optic Cable (27 15 23)		
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 15 23 00-0002 Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)		
Note: Excludes conduit or innerduct.		
27 15 23 00-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,057.81	440.80
27 15 23 00-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,155.19	440.80
27 15 23 00-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,187.71	440.80
27 15 23 00-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,303.50	440.80
<i>For Aluminum Armored Cable, Add</i>		1,283.52
<i>For Steel Armored Cable, Add</i>		1,466.02
27 15 23 00-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,336.70	440.80
27 15 23 00-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,537.39	440.80
<i>For Aluminum Armored Cable, Add</i>		1,412.60
<i>For Steel Armored Cable, Add</i>		1,518.20
27 15 23 00-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,631.19	514.27
27 15 23 00-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,703.22	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,839.80
<i>For Steel Armored Cable, Add</i>		1,878.60
27 15 23 00-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,517.96	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,939.49
<i>For Steel Armored Cable, Add</i>		1,610.56
27 15 23 00-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,675.98	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		2,034.91
<i>For Steel Armored Cable, Add</i>		1,688.23
27 15 23 00-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,672.47	514.27
27 15 23 00-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,937.47	514.27
27 15 23 00-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,331.36	514.27
27 15 23 00-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,849.96	587.74
27 15 23 00-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,750.76	587.74
27 15 23 00-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,085.85	440.80
27 15 23 00-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,208.69	440.80
27 15 23 00-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,490.13	440.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,786.39	440.80
<i>For Aluminum Armored Cable, Add</i>	937.78	
<i>For Steel Armored Cable, Add</i>	1,242.26	
27 15 23 00-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,067.84	440.80
27 15 23 00-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,645.55	440.80
<i>For Aluminum Armored Cable, Add</i>	902.31	
<i>For Steel Armored Cable, Add</i>	1,299.04	
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,916.12	514.27
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,004.75	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	952.11	
<i>For Steel Armored Cable, Add</i>	952.11	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,078.57	514.27
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,152.39	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,699.05	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,226.21	514.27
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,300.03	514.27
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,462.48	514.27
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	7,317.62	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,732.57	587.74
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	25,880.21	587.74
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,103.41	440.80
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,232.39	440.80
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,527.91	440.80
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,838.98	440.80
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,134.50	440.80
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,741.09	440.80
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,019.07	514.27
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,212.13	514.27
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,389.64	514.27
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,567.15	514.27
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,744.67	514.27
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,922.18	514.27
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,292.75	514.27
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,770.22	587.74
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,125.25	587.74
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0003)</small>		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,960.39	440.80
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,323.59	440.80
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,122.59	440.80
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,503.91	440.80
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,101.68	440.80
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,441.03	514.27
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,114.69	514.27
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,434.76	514.27
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,022.44	514.27



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 23 00-0064	50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0063)		
27 15 23 00-0065	MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,339.35	440.80
27 15 23 00-0066	MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,845.30	440.80
27 15 23 00-0067	MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,679.49	440.80
27 15 23 00-0068	MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,919.34	440.80
27 15 23 00-0069	MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,434.21	440.80
27 15 23 00-0070	MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,265.21	514.27
27 15 23 00-0071	MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,123.33	514.27
27 15 23 00-0072	MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,393.72	514.27
27 15 23 00-0073	MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,847.87	514.27
27 15 23 00-0074	62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075	MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,419.58	440.80
27 15 23 00-0076	MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,950.83	440.80
27 15 23 00-0077	MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,826.74	440.80
27 15 23 00-0078	MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,128.58	440.80
27 15 23 00-0079	MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,669.19	440.80
27 15 23 00-0080	MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,585.62	514.27
27 15 23 00-0081	MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,536.64	514.27
27 15 23 00-0082	MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,870.55	514.27
27 15 23 00-0083	MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,597.40	514.27
27 15 23 00-0084	Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085	Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086	Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087	MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,097.05	440.80
27 15 23 00-0088	MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,102.52	440.80
27 15 23 00-0089	MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,389.60	440.80
27 15 23 00-0090	MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,423.19	440.80
	<i>For Aluminum Armored Cable, Add</i>	1,256.02	
	<i>For Steel Armored Cable, Add</i>	4,973.19	
27 15 23 00-0091	MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,592.30	440.80
27 15 23 00-0092	MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,623.93	440.80
	<i>For Aluminum Armored Cable, Add</i>	1,326.10	
	<i>For Steel Armored Cable, Add</i>	5,309.90	
27 15 23 00-0093	MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,756.15	514.27
27 15 23 00-0094	MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,843.29	514.27
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,084.57	
	<i>For Steel Armored Cable, Add</i>	5,001.91	
27 15 23 00-0095	MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,720.82	514.27
27 15 23 00-0096	MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,923.52	514.27
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,662.87	
	<i>For Steel Armored Cable, Add</i>	5,865.24	
27 15 23 00-0097	MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,573.07	514.27
27 15 23 00-0098	MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,334.28	514.27
27 15 23 00-0099	MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,994.41	514.27
27 15 23 00-0100	50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0101	MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,083.96	440.80
27 15 23 00-0102	MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,707.54	440.80
27 15 23 00-0103	MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,303.52	440.80



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0104	MLF		6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,911.46	440.80
			<i>For Aluminum Armored Cable, Add</i>	-184.38	
			<i>For Steel Armored Cable, Add</i>	187.44	
27 15 23 00-0105	MLF		8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,493.98	440.80
27 15 23 00-0106	MLF		12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,000.10	440.80
			<i>For Aluminum Armored Cable, Add</i>	-477.57	
			<i>For Steel Armored Cable, Add</i>	-55.49	
27 15 23 00-0107	MLF		18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,118.71	514.27
27 15 23 00-0108	MLF		24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,441.63	514.27
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	2,550.22	
			<i>For Steel Armored Cable, Add</i>	5,947.85	
27 15 23 00-0109	MLF		36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,733.89	514.27
27 15 23 00-0110	MLF		48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,026.15	514.27
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	7,572.77	
27 15 23 00-0111	MLF		60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,318.41	514.27
27 15 23 00-0112	MLF		72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	26,610.67	514.27
27 15 23 00-0113	MLF		96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	35,225.85	514.27
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	15,145.55	
27 15 23 00-0114			62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,101.43	440.80
27 15 23 00-0116	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,756.19	440.80
27 15 23 00-0117	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,381.96	440.80
27 15 23 00-0118	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,020.30	440.80
27 15 23 00-0119	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,631.95	440.80
27 15 23 00-0120	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,163.37	440.80
27 15 23 00-0121	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,331.79	514.27
27 15 23 00-0122	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,870.86	514.27
27 15 23 00-0123	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,377.73	514.27
27 15 23 00-0124	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,884.60	514.27
27 15 23 00-0125	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,391.47	514.27
27 15 23 00-0126	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,898.35	514.27
27 15 23 00-0127	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	36,944.29	514.27
27 15 23 00-0128			Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0084)</small>		
27 15 23 00-0129			Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130	MLF		2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,071.12	440.80
27 15 23 00-0131	MLF		4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,513.01	440.80
27 15 23 00-0132	MLF		6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,575.31	440.80
27 15 23 00-0133	MLF		8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,616.41	440.80
27 15 23 00-0134	MLF		12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,277.97	440.80
27 15 23 00-0135	MLF		18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,372.45	514.27
27 15 23 00-0136	MLF		24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,947.97	514.27
27 15 23 00-0137	MLF		36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,077.98	514.27
27 15 23 00-0138	MLF		48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,551.17	514.27
27 15 23 00-0139			50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140	MLF		2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,233.94	440.80
27 15 23 00-0141	MLF		4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,839.89	440.80

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,706.45	440.80
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,167.41	440.80
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,433.82	440.80
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,804.37	514.27
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,309.95	514.27
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	25,743.91	514.27
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	41,326.99	514.27
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,508.91	440.80
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,195.15	440.80
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,205.04	440.80
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,739.05	440.80
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,118.77	440.80
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,751.74	514.27
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	24,432.59	514.27
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	26,988.25	514.27
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	43,350.48	514.27
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001)		
Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,302.70 293.87	587.74
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,400.08 293.87	587.74
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,432.60 293.87	587.74
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,548.39 1,283.52 1,466.02 293.87	587.74
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,581.59 293.87	587.74
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,782.28 1,412.60 1,518.20 293.87	587.74
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,876.09 330.60	661.20
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,948.12 1,839.80 1,878.60 330.60	661.20
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,762.86 1,939.49 1,610.56 330.60	661.20
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,920.88 2,034.91 1,688.23 330.60	661.20
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,917.37 330.60	661.20
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,182.37 330.60	661.20
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,576.26 330.60	661.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,094.85 367.34	734.67
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,995.65 367.34	734.67
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,330.74 293.87	587.74
27 15 23 00-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,453.58 293.87	587.74
27 15 23 00-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,735.02 293.87	587.74
27 15 23 00-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,031.28 937.78 1,242.26 293.87	587.74
27 15 23 00-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,312.73 293.87	587.74
27 15 23 00-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,890.44 902.31 1,299.04 293.87	587.74
27 15 23 00-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,161.02 330.60	661.20
27 15 23 00-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,249.65 952.11 952.11 330.60	661.20
27 15 23 00-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,323.47 330.60	661.20
27 15 23 00-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,397.29 1,699.05 330.60	661.20
27 15 23 00-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,471.11 330.60	661.20
27 15 23 00-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,544.93 330.60	661.20
27 15 23 00-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	17,707.38 7,317.62 330.60	661.20
27 15 23 00-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,977.46 367.34	734.67
27 15 23 00-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	26,125.10 367.34	734.67
27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,348.30 293.87	587.74
27 15 23 00-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,477.28 293.87	587.74
27 15 23 00-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,772.80 293.87	587.74
27 15 23 00-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,083.87 293.87	587.74
27 15 23 00-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,379.39 293.87	587.74
27 15 23 00-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,985.98 293.87	587.74
27 15 23 00-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,263.97 330.60	661.20
27 15 23 00-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,457.03 330.60	661.20
27 15 23 00-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,634.54 330.60	661.20
27 15 23 00-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,812.05 330.60	661.20

27 Communications
27 10 Structured Cabling
 27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0205	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,989.57	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0206	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,167.08	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0207	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,537.65	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0208	MLF		120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	23,015.11	734.67
			<i>For Work In Restricted Working Space, Add</i>	367.34	
27 15 23 00-0209	MLF		144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	27,370.14	734.67
			<i>For Work In Restricted Working Space, Add</i>	367.34	
27 15 23 00-0210			Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0160)</small>		
27 15 23 00-0211			Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0212	MLF		2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,205.28	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0213	MLF		4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,568.48	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0214	MLF		6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,367.48	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0215	MLF		8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,748.80	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0216	MLF		12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,346.57	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0217	MLF		18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,685.93	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0218	MLF		24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,359.59	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0219	MLF		36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,679.66	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0220	MLF		48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,267.34	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0221			50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0222	MLF		2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,584.24	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0223	MLF		4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,090.19	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0224	MLF		6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,924.38	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0225	MLF		8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,164.23	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0226	MLF		12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,679.10	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0227	MLF		18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,510.11	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0228	MLF		24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,368.23	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0229	MLF		36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,638.62	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0230	MLF		48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	16,092.77	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0231			62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0232	MLF		2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,664.47	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0233	MLF		4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,195.72	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0234	MLF		6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,071.63	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0235	MLF		8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,373.47	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0236	MLF		12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,914.08	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0237	MLF		18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,830.52	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0238	MLF		24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,781.54	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	11,115.45	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,842.30	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0159)</small>		
27 15 23 00-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,341.94	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,347.41	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,634.49	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,668.08	587.74
<i>For Aluminum Armored Cable, Add</i>	1,256.02	
<i>For Steel Armored Cable, Add</i>	4,973.19	
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,837.19	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,868.82	587.74
<i>For Aluminum Armored Cable, Add</i>	1,326.10	
<i>For Steel Armored Cable, Add</i>	5,309.90	
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,001.05	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,088.19	661.20
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,084.57	
<i>For Steel Armored Cable, Add</i>	5,001.91	
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	7,965.72	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,168.42	661.20
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,662.87	
<i>For Steel Armored Cable, Add</i>	5,865.24	
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,817.97	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	11,579.18	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	15,239.31	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,328.85	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,952.43	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,548.41	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,156.35	587.74
<i>For Aluminum Armored Cable, Add</i>	-184.38	
<i>For Steel Armored Cable, Add</i>	187.44	
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,738.87	587.74
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,244.99	587.74
<i>For Aluminum Armored Cable, Add</i>	-477.57	
<i>For Steel Armored Cable, Add</i>	-55.49	
<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,363.61	661.20
<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,686.53	661.20
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	2,550.22	
<i>For Steel Armored Cable, Add</i>	5,947.85	
<i>For Work In Restricted Working Space, Add</i>	330.60	

27 Communications

27 10 Structured Cabling

27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0266	MLF		36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,978.79	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0267	MLF		48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,271.05	661.20
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	7,572.77	
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0268	MLF		60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	22,563.31	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0269	MLF		72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	26,855.57	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0270	MLF		96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	35,470.75	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	15,145.55	
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0271			62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0272	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,346.32	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0273	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,001.08	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0274	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,626.85	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0275	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,265.19	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0276	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,876.84	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0277	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,408.26	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0278	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,576.69	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0279	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,115.76	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0280	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,622.63	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0281	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,129.50	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0282	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	23,636.37	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0283	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	28,143.25	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0284	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	37,189.19	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0285			Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0286			Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0287	MLF		2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,316.01	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0288	MLF		4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,757.90	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0289	MLF		6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,820.20	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0290	MLF		8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,861.30	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0291	MLF		12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,522.86	587.74
			<i>For Work In Restricted Working Space, Add</i>	293.87	
27 15 23 00-0292	MLF		18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,617.35	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	
27 15 23 00-0293	MLF		24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,192.87	661.20
			<i>For Work In Restricted Working Space, Add</i>	330.60	



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,322.88 330.60	661.20
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	22,796.07 330.60	661.20
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,478.83 293.87	587.74
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,084.78 293.87	587.74
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed... <i>For Work In Restricted Working Space, Add</i>	10,951.34 293.87	587.74
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed... <i>For Work In Restricted Working Space, Add</i>	12,412.30 293.87	587.74
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,678.71 293.87	587.74
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,049.27 330.60	661.20
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	23,554.85 330.60	661.20
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	25,988.81 330.60	661.20
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	41,571.89 330.60	661.20
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,753.80 293.87	587.74
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,440.04 293.87	587.74
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,449.93 293.87	587.74
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,983.94 293.87	587.74
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,363.66 293.87	587.74
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,996.64 330.60	661.20
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	24,677.49 330.60	661.20
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	27,233.15 330.60	661.20
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	43,595.38 330.60	661.20
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,526.11	440.80
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,596.50	440.80
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	6,014.82	514.27
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	9,493.34	514.27
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,822.23	440.80

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0324	MLF		12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,638.17	440.80
27 15 23 00-0325	MLF		24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	7,142.83	514.27
27 15 23 00-0326	MLF		48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	12,335.78	514.27
27 15 23 00-0327			Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328			Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329	MLF		6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	1,771.00 293.87	587.74
27 15 23 00-0330	MLF		12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,841.39 293.87	587.74
27 15 23 00-0331	MLF		24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	6,259.72 330.60	661.20
27 15 23 00-0332	MLF		48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	9,738.24 330.60	661.20
27 15 23 00-0333			Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334	MLF		6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,067.12 293.87	587.74
27 15 23 00-0335	MLF		12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,883.06 293.87	587.74
27 15 23 00-0336	MLF		24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	7,387.73 330.60	661.20
27 15 23 00-0337	MLF		48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	12,580.68 330.60	661.20
27 15 23 00-0338			Outdoor Fiber Optic Cable <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339			Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
27 15 23 00-0340			Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0341			Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342	MLF		2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,049.29 283.28	881.60
27 15 23 00-0343	MLF		4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,084.55 285.63	881.60
27 15 23 00-0344	MLF		6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,119.87 287.90	881.60
27 15 23 00-0345	MLF		8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,155.16 290.66	881.60
27 15 23 00-0346	MLF		12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,225.29 263.01	881.60
27 15 23 00-0347	MLF		18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,368.74 293.03	881.60
27 15 23 00-0348	MLF		24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,442.47 230.68	881.60
27 15 23 00-0349	MLF		36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,465.22 269.63	881.60
27 15 23 00-0350	MLF		48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,887.22 296.64	881.60
27 15 23 00-0351	MLF		60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,119.88 296.61	881.60
27 15 23 00-0352	MLF		72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,421.74 350.57	881.60
27 15 23 00-0353	MLF		96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,953.15 336.58	881.60
27 15 23 00-0354	MLF		120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	4,533.80 408.71	881.60
27 15 23 00-0355	MLF		144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	5,141.50 273.59	881.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,867.94	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-4.10	
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,947.32	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	41.65	
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,113.64	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	107.74	
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,340.44	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-65.42	
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,434.94	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-34.76	
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,756.24	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-16.39	
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,436.64	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-88.94	
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,438.34	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-0.08	
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	6,553.44	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-203.39	
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,328.34	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-102.28	
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,330.04	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	469.28	
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,654.74	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-210.64	
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	12,960.54	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-281.69	
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	15,266.34	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	-334.85	
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,804.58	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	121.14	
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,921.05	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	129.91	
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,037.34	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	138.47	
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,181.00	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	157.64	
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,386.74	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	164.38	
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,750.49	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	175.19	
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,095.06	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	201.47	
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,754.51	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	223.88	
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,525.84	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	257.42	
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,238.26	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	277.00	
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,990.19	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	313.52	
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,510.98	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	352.51	
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	9,056.19	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	400.06	
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,625.25	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	367.48	
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,251.25	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	223.86	
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,320.02	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	321.31	
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,340.67	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	307.93	
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,423.05	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	256.34	
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,448.76	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	306.37	
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,564.21	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	290.57	
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,667.73	881.60
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	294.02	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,832.87 372.85	881.60
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,065.53 377.71	881.60
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,297.29 391.31	881.60
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,611.49 336.59	881.60
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,119.73 438.97	881.60
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,784.64 432.24	881.60
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,328.75 345.27	881.60
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,483.10 316.80	881.60
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,723.87 177.41	881.60
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,040.67 38.02	881.60
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,192.73 63.36	881.60
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,344.80 63.36	881.60
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,699.61 76.03	881.60
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,016.41 291.46	881.60
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,700.70 570.24	881.60
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,384.99 950.40	881.60
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,955.23 1,045.44	881.60
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,702.88 1,330.56	881.60
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,261.53 1,964.16	881.60
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,047.20 1,482.62	881.60
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,062.04 3,611.52	881.60
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,883.22 152.06	881.60
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,997.27 164.38	881.60
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,111.13 176.68	881.60
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,225.18 188.97	881.60
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,520.61 203.26	881.60
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,810.31 238.19	881.60
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,165.28 258.71	881.60
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,852.37 319.65	881.60
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,552.31 366.23	881.60
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,254.66 407.82	881.60
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,993.16 454.78	881.60
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,491.79 536.25	881.60
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,426.09 554.35	881.60
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,559.66 572.27	881.60
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Excludes trenching.		



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0432)		
27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,926.84 283.28	
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,962.10 285.63	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,997.42 287.90	
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,032.71 290.66	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,102.84 263.01	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,246.29 293.03	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,320.02 230.68	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,342.77 269.63	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,764.77 296.64	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,294.04 296.61	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,649.86 350.57	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,830.70 336.58	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,411.35 408.71	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,019.05 273.59	
27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,745.49 -4.10	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,824.87 41.65	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,991.19 107.74	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,217.99 -65.42	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,312.49 -34.76	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,633.79 -16.39	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,314.19 -88.94	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,315.89 -0.08	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,430.99 -203.39	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,205.89 -102.28	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,207.59 469.28	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,532.29 -210.64	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,838.09 -281.69	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,143.89 -334.85	
27 15 23 00-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,682.13 121.14	
27 15 23 00-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,798.60 129.91	
27 15 23 00-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,914.89 138.47	
27 15 23 00-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,058.55 157.64	
27 15 23 00-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,264.29 164.38	
27 15 23 00-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,628.04 175.19	
27 15 23 00-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,972.61 201.47	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0472	MLF		36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,632.06 223.88	
27 15 23 00-0473	MLF		48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,403.39 257.42	
27 15 23 00-0474	MLF		60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,115.81 277.00	
27 15 23 00-0475	MLF		72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,867.74 313.52	
27 15 23 00-0476	MLF		96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,388.53 352.51	
27 15 23 00-0477	MLF		120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,933.74 400.06	
27 15 23 00-0478	MLF		144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,502.80 367.48	
27 15 23 00-0479			Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0432)		
27 15 23 00-0480			Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0481	MLF		2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,128.80 223.86	
27 15 23 00-0482	MLF		4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,197.57 321.31	
27 15 23 00-0483	MLF		6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,218.22 307.93	
27 15 23 00-0484	MLF		8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,300.60 256.34	
27 15 23 00-0485	MLF		12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,326.31 306.37	
27 15 23 00-0486	MLF		18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,441.76 290.57	
27 15 23 00-0487	MLF		24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,545.28 294.02	
27 15 23 00-0488	MLF		36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,710.42 372.85	
27 15 23 00-0489	MLF		48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,943.08 377.71	
27 15 23 00-0490	MLF		60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,174.84 391.31	
27 15 23 00-0491	MLF		72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,489.04 336.59	
27 15 23 00-0492	MLF		96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,997.28 438.97	
27 15 23 00-0493	MLF		120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,662.19 432.24	
27 15 23 00-0494	MLF		144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,206.30 345.27	
27 15 23 00-0495			50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0496	MLF		2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,360.65 316.80	
27 15 23 00-0497	MLF		4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,601.42 177.41	
27 15 23 00-0498	MLF		6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,918.22 38.02	
27 15 23 00-0499	MLF		8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,070.28 63.36	
27 15 23 00-0500	MLF		12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,222.35 63.36	
27 15 23 00-0501	MLF		18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,577.16 76.03	
27 15 23 00-0502	MLF		24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,893.96 291.46	
27 15 23 00-0503	MLF		36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,578.25 570.24	
27 15 23 00-0504	MLF		48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,262.54 950.40	
27 15 23 00-0505	MLF		60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,832.78 1,045.44	
27 15 23 00-0506	MLF		72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,580.43 1,330.56	
27 15 23 00-0507	MLF		96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,139.08 1,964.16	
27 15 23 00-0508	MLF		120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,924.75 1,482.62	
27 15 23 00-0509	MLF		144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,939.59 3,611.52	



Communications	27	27
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Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,760.77	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>152.06</i>	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,874.82	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>164.38</i>	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,988.68	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>176.68</i>	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,102.73	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>188.97</i>	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,398.16	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>203.26</i>	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,687.86	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>238.19</i>	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	3,042.83	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>258.71</i>	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	3,729.92	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>319.65</i>	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	4,429.86	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>366.23</i>	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	5,132.21	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>407.82</i>	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	5,870.71	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>454.78</i>	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	7,369.34	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>536.25</i>	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	8,965.98	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>554.35</i>	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	10,437.21	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>572.27</i>	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0338)</small>		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0525)</small>		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0526)</small>		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,624.59	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>189.47</i>	
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,659.63	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>194.38</i>	
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,695.14	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>199.15</i>	
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,730.19	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>195.34</i>	
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,800.30	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>227.73</i>	
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,938.76	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>236.75</i>	
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,044.35	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>261.68</i>	
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,295.41	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>250.91</i>	
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,514.96	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>291.49</i>	
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,696.46	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>279.52</i>	
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,922.88	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>319.58</i>	
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	11,517.10	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>324.58</i>	
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	12,154.64	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>387.31</i>	
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	12,307.48	3,305.13
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>415.88</i>	
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small>		
Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	3,917.24	734.67
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,943.18	734.67
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,228.61	734.67
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		

27 Communications

27 10 Structured Cabling

27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0548	MLF		12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	5,225.78	734.67
27 15 23 00-0549	MLF		24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	5,808.80	734.67
27 15 23 00-0550	MLF		48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	8,359.12	734.67
27 15 23 00-0551			Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552			Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0553	MLF		12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,794.79	673.45
27 15 23 00-0554	MLF		24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,820.73	673.45
27 15 23 00-0555	MLF		48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	7,106.16	673.45
27 15 23 00-0556			Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0557	MLF		12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,103.33	673.45
27 15 23 00-0558	MLF		24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,686.35	673.45
27 15 23 00-0559	MLF		48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	8,236.67	673.45
27 15 23 00-0560			Network Communications Cabling And Related Products (27 15 23)		
27 15 23 00-0561	EA		AC Surge Suppression Assembly..... Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.	505.30	15.31
27 15 23 00-0562	EA		Single Mode Fiber Optic To Ethernet Media Converter..... Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.	853.19	18.37
27 15 23 00-0563	EA		6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends..... Note: Includes testing.	45.09	1.96
27 15 23 00-0564	EA		KVM (Keyboard, Video, Mouse) Cable..... Note: Raritan CCP40. Includes testing.	103.00	2.45
27 15 23 00-0565	EA		6' Long USB (Universal Serial Bus) Cable..... Note: Includes testing.	15.20	1.96
27 15 23 00-0566	EA		10' Long USB (Universal Serial Bus) Cable..... Note: Includes testing.	18.03	2.45
27 15 23 00-0567	EA		6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End..... Note: Includes testing.	19.76	1.96
27 15 23 00-0568	EA		10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End..... Note: Includes testing.	22.59	2.45
27 15 23 00-0569	EA		6' Long Single Mode Patch Cord With SC Connectors At Both Ends..... Note: Includes testing.	33.12	1.96
27 15 23 00-0570	EA		20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends..... Note: Includes testing.	72.12	2.45
27 15 23 00-0571	EA		6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other..... Note: Includes testing.	57.37	1.96
27 15 23 00-0572	EA		20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other..... Note: Includes testing.	72.12	2.45
27 15 23 00-0573	EA		6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other..... Note: Includes testing.	107.77	1.96
27 15 23 00-0574	EA		6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other..... Note: Includes testing.	107.77	1.96
27 15 23 00-0575	LF		6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 006ESF-T4101D20. Includes testing.	1.07	
27 15 23 00-0576	LF		12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 012ESF-T4101D20. Includes testing.	7.48	
27 15 23 00-0577	LF		24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 024EW4-T4101D20. Includes testing.	9.14	
27 15 23 00-0578	LF		72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 072EW4-T4101D20. Includes testing.	15.04	
27 15 23 00-0579	LF		144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 144EW4-T4101D20. Includes testing.	23.50	
27 15 23 00-0580	LF		36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable..... Note: Corning part no. 036E81-61131-24. Includes testing.	15.21	
27 15 23 00-0581	LF		72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable..... Note: Corning part no. 072E81-T3131-24. Includes testing.	23.84	
27 15 23 00-0582	EA		Aerial Storage Unit..... Note: Alcola part no. FSU-16. Includes testing.	133.90	12.24
27 15 23 00-0583	EA		Spider Fan-Out Kits With SC Connectors..... Note: Corning part no. SFK-P-12-900-S.	163.88	12.24
27 15 23 00-0584	LF		Ultraviolet Resistant Rated Category 6 Cable..... Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.	1.46	0.22
27 15 23 00-0585	LF		RG11 Coaxial Cable NEC CMR..... Note: Corning part no. SFK-P-12-900-S.	5.01	2.30
27 15 23 00-0586	LF		Outdoor Rated UL Type CL2..... Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.	5.11	



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0587 LF Indoor Plenum Rated UL Type CMP Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.	7.47	2.30
27 15 33 Communications Coaxial Horizontal Cabling (27 15) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 33 00-0001 Indoor Coaxial Cable (27 15 33)		
27 15 33 00-0002 Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)		
27 15 33 00-0003 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)		
27 15 33 00-0004 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,857.81	514.27
27 15 33 00-0005 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	4,712.13	514.27
27 15 33 00-0006 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,461.44	587.74
27 15 33 00-0007 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120)	5,958.97	587.74
27 15 33 00-0008 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)		
27 15 33 00-0009 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108)..... <i>For Work In Restricted Working Space, Add</i>	2,714.93 514.27	1,028.54
27 15 33 00-0010 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108)..... <i>For Work In Restricted Working Space, Add</i>	5,569.25 514.27	1,028.54
27 15 33 00-0011 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... <i>For Work In Restricted Working Space, Add</i>	2,441.00 587.74	1,175.47
27 15 33 00-0012 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... <i>For Work In Restricted Working Space, Add</i>	6,938.53 587.74	1,175.47
27 15 33 00-0013 Coaxial Distribution Cable (27 15 33 00-0001) Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.		
27 15 33 00-0014 MLF RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	3,204.08	358.04
27 15 33 00-0015 MLF RG-6A/U Coaxial Distribution Cable, Installed In Conduit	12,805.66	358.04
27 15 33 00-0016 MLF RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	6,560.40	378.18
27 15 33 00-0017 MLF RG-8A/U Coaxial Distribution Cable, Installed In Conduit	8,363.99	378.18
27 15 33 00-0018 MLF RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	7,329.46	447.55
27 15 33 00-0019 MLF RG-11A/U Coaxial Distribution Cable, Installed In Conduit	10,817.46	447.55
27 15 33 00-0020 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	23,735.21	626.56
27 15 33 00-0021 MLF RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	2,314.53	313.28
27 15 33 00-0022 MLF RG-58A/U Coaxial Distribution Cable, Installed In Conduit	2,671.92	313.28
27 15 33 00-0023 MLF RG-58C/U Coaxial Distribution Cable, Installed In Conduit	3,301.49	313.28
27 15 33 00-0024 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	8,196.97	626.56
27 15 33 00-0025 MLF RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	3,984.24	313.28
27 15 33 00-0026 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	10,070.19	626.56
27 15 33 00-0027 MLF 1/2" Hard Line Coaxial, Installed In Conduit	3,154.10	447.55
27 15 33 00-0028 Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028) Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	8,161.90	1,675.16
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	4,984.24	1,178.27
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial	4,608.84	695.15
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial	2,105.34	695.15
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,082.95	1,086.19
27 15 43 Communications Faceplates and Connectors (27 15)		
27 15 43 00-0001 Wall Mounted Telephone Faceplates (27 15 43) Note: Includes standard telephone mounting studs.		
27 15 43 00-0002 Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	43.69	15.31
27 15 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	34.70	6.12
27 15 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	60.94	15.31
27 15 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	71.00	18.37
27 15 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	33.39	6.12
27 15 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	55.40	15.31
27 15 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	65.61	18.37

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0011			Plastic Communications Faceplates <small>(27 15 43)</small>		
			Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0012	EA		One Port, Single Gang, Plastic Communication Faceplate With Station ID	9.74	3.07
27 15 43 00-0013	EA		Two Port, Single Gang, Plastic Communication Faceplate With Station ID	9.74	3.07
27 15 43 00-0014	EA		Three Port, Single Gang, Plastic Communication Faceplate With Station ID	9.74	3.07
27 15 43 00-0015	EA		Four Port, Single Gang, Plastic Communication Faceplate With Station ID	9.74	3.07
27 15 43 00-0016	EA		Six Port, Single Gang, Plastic Communication Faceplate With Station ID	9.74	3.07
27 15 43 00-0017	EA		Four Port, Double Gang, Plastic Communications Faceplate With Station ID	17.10	3.07
27 15 43 00-0018	EA		Six Port, Double Gang, Plastic Communication Faceplate With Station ID	17.10	3.07
27 15 43 00-0019	EA		Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	17.10	3.07
27 15 43 00-0020	EA		Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	17.10	3.07
27 15 43 00-0021	EA		Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	17.10	3.07
27 15 43 00-0022			Stainless Steel Communications Faceplates <small>(27 15 43)</small>		
			Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0023			Stainless Steel Communications Faceplates <small>(27 15 43 00-0022)</small>		
27 15 43 00-0024	EA		One Port, Single Gang, Stainless Steel Communications Faceplate	18.48	3.07
27 15 43 00-0025	EA		Two Port, Single Gang, Stainless Steel Communications Faceplate	18.48	3.07
27 15 43 00-0026	EA		Three Port, Single Gang, Stainless Steel Communications Faceplate	18.48	3.07
27 15 43 00-0027	EA		Four Port, Single Gang, Stainless Steel Communications Faceplate	19.77	3.07
27 15 43 00-0028	EA		Six Port, Single Gang, Stainless Steel Communications Faceplate	19.77	3.07
27 15 43 00-0029	EA		Four Port, Double Gang, Stainless Steel Communications Faceplate	26.66	3.07
27 15 43 00-0030	EA		Six Port, Double Gang, Stainless Steel Communications Faceplate	27.47	3.07
27 15 43 00-0031	EA		Eight Port, Double Gang, Stainless Steel Communications Faceplate	31.80	3.07
27 15 43 00-0032	EA		Nine Port, Double Gang, Stainless Steel Communication Faceplate	31.80	3.07
27 15 43 00-0033	EA		Twelve Port, Double Gang, Stainless Steel Communications Faceplate	31.80	3.07
27 15 43 00-0034			Stainless Steel Communications Faceplates With Station ID <small>(27 15 43 00-0022)</small>		
27 15 43 00-0035	EA		One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.50	3.07
27 15 43 00-0036	EA		Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.50	3.07
27 15 43 00-0037	EA		Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.50	3.07
27 15 43 00-0038	EA		Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.50	3.07
27 15 43 00-0039	EA		Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	26.50	3.07
27 15 43 00-0040	EA		Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	57.14	3.07
27 15 43 00-0041	EA		Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	57.14	3.07
27 15 43 00-0042	EA		Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	57.14	3.07
27 15 43 00-0043	EA		Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	57.14	3.07
27 15 43 00-0044	EA		Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	57.14	3.07
27 15 43 00-0045			Surface Mount Plastic Communication Boxes <small>(27 15 43)</small>		
			Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046	EA		One Port, Surface Mount Plastic Communication Box With Station ID	35.25	15.35
27 15 43 00-0047	EA		Two Port, Surface Mount Plastic Communication Box With Station ID	36.05	15.35
27 15 43 00-0048	EA		Four Port, Surface Mount Plastic Communication Box With Station ID	41.59	15.35
27 15 43 00-0049	EA		Six Port, Surface Mount Plastic Communication Box With Station ID	48.17	15.35
27 15 43 00-0050	EA		Twelve Port, Surface Mount Plastic Communication Box With Station ID	55.06	15.35
27 15 43 00-0051			Snap-In Modular Jacks <small>(27 15 43)</small>		
			Note: Includes termination.		
27 15 43 00-0052	EA		Cat 3, Snap-In Modular Jack	33.69	12.27
27 15 43 00-0053	EA		Category 5E, Snap-In Modular Jack	35.46	12.27
27 15 43 00-0054	EA		Category 5E Shielded, Snap-In Modular Jack	40.75	12.27
27 15 43 00-0055	EA		Cat 6, Snap-In Modular Jack	40.75	12.27
27 15 43 00-0056	EA		Cat 6 Shielded, Snap-In Modular Jack	46.69	12.27
27 15 43 00-0057	EA		Cat 6A, Snap-In Modular Jack	47.59	12.27
27 15 43 00-0058	EA		Voice, RJ-11, Snap-In Modular Jack	24.85	6.13
27 15 43 00-0059	EA		SC Type Fiber Optic, Snap-In Modular Jack	37.70	12.27
27 15 43 00-0060	EA		ST Type Fiber Optic, Snap-In Modular Jack	42.20	12.27
27 15 43 00-0061	EA		LC Type Fiber Optic, Snap-In Modular Jack	51.02	12.27
27 15 43 00-0062	EA		Blank Fill In, Snap-In Modular Jack	6.96	3.07
27 15 43 00-0063	EA		Open Cable Pass Through Insert, Snap-In Modular Jack	8.34	3.07
27 15 43 00-0064	EA		Coaxial F-Type Coupler, Snap-In Modular Jack	28.20	9.20
			Note: Includes female to female connection.		
			<i>For Gold Bulkhead, Add</i> 1.71		
27 15 43 00-0065	EA		RCA Jack Pass-Through Coupler, Snap-In Modular Jack	28.52	9.20
			Note: Includes female to female connection.		
27 15 43 00-0066	EA		RCA Solder Coupler, Snap-In Modular Jack	56.64	12.27
27 15 43 00-0067	EA		RCA Jack With 110 Punch Down, Snap-In Modular Jack	69.63	12.27
27 15 43 00-0068	EA		3.5 m Mini Stereo Jack, Snap-In Modular Jack	34.98	12.27
27 15 43 00-0069	EA		MT-RJ Pass-Through Coupler, Snap-In Modular Jack	37.10	6.13
27 15 43 00-0070	EA		BNC Connector, Snap-In Modular Jack	40.27	12.27
27 15 43 00-0071	EA		S-Video With 110 Punch Down, Snap-In Modular Jack	45.08	12.27
27 15 43 00-0072	PR		Speaker Connectors, Snap-In Modular Jack	63.57	18.41
			Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073	EA		USB Audio Video Connector, Snap-In Modular Jack	67.22	12.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 15 53 Communications Cable Innerduct (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 53 00-0001	Indoor Innerduct (27 15 53)		
27 15 53 00-0002	Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)		
27 15 53 00-0003	Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0004	MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit.....	4,871.37	1,836.67
27 15 53 00-0005	MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit.....	6,299.74	2,448.90
27 15 53 00-0006	MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	8,390.83	3,061.12
27 15 53 00-0007	MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	9,793.70	3,673.35
27 15 53 00-0008	Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0009	MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	7,276.87	1,224.45
27 15 53 00-0010	MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	8,147.42	1,836.67
27 15 53 00-0011	MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	10,285.72	2,448.90
27 15 53 00-0012	MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	13,223.64	3,061.12
27 15 53 00-0013	MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	15,914.05	3,673.35
27 15 53 00-0014	Indoor Innerduct, Installed Exposed (27 15 53 00-0001)		
27 15 53 00-0015	Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0016	MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed.....	6,095.82	2,448.90
	For Work In Restricted Working Space, Add	1,469.34	
27 15 53 00-0017	MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed.....	7,524.18	3,061.12
	For Work In Restricted Working Space, Add	1,836.67	
27 15 53 00-0018	MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed.....	9,615.27	3,673.35
	For Work In Restricted Working Space, Add	2,204.00	
27 15 53 00-0019	MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed.....	11,018.15	4,285.57
	For Work In Restricted Working Space, Add	2,571.34	
27 15 53 00-0020	Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0021	MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	8,501.32	1,836.67
27 15 53 00-0022	MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	9,371.87	2,448.90
	For Work In Restricted Working Space, Add	1,469.34	
27 15 53 00-0023	MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	11,510.16	3,061.12
	For Work In Restricted Working Space, Add	1,836.67	
27 15 53 00-0024	MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	14,448.08	3,673.35
	For Work In Restricted Working Space, Add	2,204.00	
27 15 53 00-0025	MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	17,138.50	4,285.57
	For Work In Restricted Working Space, Add	2,571.34	
27 15 53 00-0026	Outdoor Innerduct (27 15 53)		
27 15 53 00-0027	Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)		
27 15 53 00-0028	MLF 1" Outdoor Innerduct, Installed In Conduit.....	4,565.49	1,836.67
27 15 53 00-0029	MLF 1-1/4" Outdoor Innerduct, Installed In Conduit.....	5,848.68	2,448.90
27 15 53 00-0030	MLF 1-1/2" Outdoor Innerduct, Installed In Conduit.....	7,478.80	3,061.12
27 15 53 00-0031	MLF 2" Outdoor Innerduct, Installed In Conduit.....	8,930.61	3,673.35
27 15 53 00-0032	Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)		
27 15 53 00-0033	MLF 1" Outdoor Innerduct, Buried In Trench.....	3,341.04	
27 15 53 00-0034	MLF 1-1/4" Outdoor Innerduct, Buried In Trench.....	4,624.23	
27 15 53 00-0035	MLF 1-1/2" Outdoor Innerduct, Buried In Trench.....	6,254.36	
27 15 53 00-0036	MLF 2" Outdoor Innerduct, Buried In Trench.....	7,706.17	

27 16 Communications Connecting Cords, Devices, and Adapters (27 10)

27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)

27 16 16 00-0001	Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002	EA Fiber Optic Receiver, Range 6.2 Miles.....	1,004.16	61.22
27 16 16 00-0003	EA Fiber Optic MM Dual Video Receiver, Manual Gain.....	1,129.36	120.60
	Note: With video presence Ind, RM.		
27 16 16 00-0004	Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005	EA Fiber Optic Transmitter, Range 6.2 Miles.....	1,004.15	61.22
27 16 16 00-0006	EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator.....	1,129.36	120.60
27 16 16 00-0007	Fiber Optic Repeaters (27 16 16)		
	Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008	EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power.....	1,126.60	122.44

27 Communications
27 10 Structured Cabling
 27 16 Communications Connecting Cords, Devices, and Adapters



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0009	EA		Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,761.41	244.89
27 16 16 00-0010			Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011	EA		Fiber Optic Transceivers, 3,000 Miles Range	1,163.31	244.89
27 16 16 00-0012	EA		Fiber Optic Transceivers, Digital 2,000 Miles Range	1,163.31	244.89
27 16 16 00-0013	EA		Fiber Optic Ethernet Transceiver	1,530.92	367.34
27 16 16 00-0014	EA		Transceiver (Low Cost Bi- Directional).....	561.99	91.83
27 16 19			Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)		
27 16 19 00-0001			Cross Connect Wire (27 16 19)		
			Note: Up to 20' length.		
27 16 19 00-0002	EA		2-Pair Cross Connect Wire	19.38	
27 16 19 00-0003	EA		3-Pair Cross Connect Wire	25.94	
27 16 19 00-0004	EA		4-Pair Cross Connect Wire	32.43	
27 16 19 00-0005			Fiber Optic Patch Cords (27 16 19)		
27 16 19 00-0006			Simplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0007			Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)		
27 16 19 00-0008	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	55.96	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	45.40	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	59.13	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0011	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	47.81	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0012	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	55.52	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0013	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	54.66	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0014			Duplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0015			Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0016	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	98.40	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	95.43	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	106.01	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0019	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	82.14	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0020	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	97.53	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	95.84	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0022			Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0023	EA		ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	74.00	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024	EA		ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	80.90	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025	EA		ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	81.61	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026	EA		ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	83.82	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027	EA		SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	74.29	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028	EA		SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	84.21	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029	EA		SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	99.18	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030	EA		MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	67.93	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031	EA		LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	82.92	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0032			Fiber Optic Cable Pig Tail (27 16 19)		
27 16 19 00-0033	EA		Simplex Fiber Optic Cable Pig Tail	85.42	42.86
27 16 19 00-0034	EA		Duplex Fiber Optic Cable Pig Tail	110.47	42.86
27 16 19 00-0035			Ethernet Patch Cords (27 16 19)		
27 16 19 00-0036	EA		3' Category 5E Patch Cables With Boots.....	16.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0037 EA 5' Category 5E Patch Cables With Boots.....	17.97	
27 16 19 00-0038 EA 7' Category 5E Patch Cables With Boots.....	19.51	
27 16 19 00-0039 EA 10' Category 5E Patch Cables With Boots.....	28.38	
27 16 19 00-0040 EA 15' Category 5E Patch Cables With Boots.....	35.61	
27 16 19 00-0041 EA 25' Category 5E Patch Cables With Boots.....	47.25	
27 16 19 00-0042 EA 3' Category 6 Patch Cables With Boots.....	18.26	
27 16 19 00-0043 EA 5' Category 6 Patch Cables With Boots.....	22.14	
27 16 19 00-0044 EA 7' Category 6 Patch Cables With Boots.....	22.21	
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots.....	26.54	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots.....	35.03	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots.....	44.10	
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots.....	69.62	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots.....	121.59	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots.....	22.41	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots.....	23.76	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots.....	24.76	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots.....	29.34	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots.....	36.09	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots.....	44.76	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots.....	64.22	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots.....	112.24	
27 16 19 00-0058 EA 3' Category 5E Patch Cables With Plastic Arch.....	16.44	
27 16 19 00-0059 EA 5' Category 5E Patch Cables With Plastic Arch.....	17.97	
27 16 19 00-0060 EA 7' Category 5E Patch Cables With Plastic Arch.....	19.51	
27 16 19 00-0061 EA 10' Category 5E Patch Cables With Plastic Arch.....	28.38	
27 16 19 00-0062 EA 15' Category 5E Patch Cables With Plastic Arch.....	35.61	
27 16 19 00-0063 EA 25' Category 5E Patch Cables With Plastic Arch.....	47.25	
27 16 19 00-0064 EA 3' Category 6 Patch Cables With Plastic Arch.....	18.26	
27 16 19 00-0065 EA 5' Category 6 Patch Cables With Plastic Arch.....	22.14	
27 16 19 00-0066 EA 7' Category 6 Patch Cables With Plastic Arch.....	22.21	
27 16 19 00-0067 EA 10' Category 6 Patch Cables With Plastic Arch.....	26.54	
27 16 19 00-0068 EA 15' Category 6 Patch Cables With Plastic Arch.....	35.03	
27 16 19 00-0069 EA 25' Category 6 Patch Cables With Plastic Arch.....	44.10	
27 16 19 00-0070 EA 3' Category 6A Patch Cables With Plastic Arch.....	34.04	
27 16 19 00-0071 EA 5' Category 6A Patch Cables With Plastic Arch.....	36.34	
27 16 19 00-0072 EA 7' Category 6A Patch Cables With Plastic Arch.....	38.07	
27 16 19 00-0073 EA 10' Category 6A Patch Cables With Plastic Arch.....	43.72	
27 16 19 00-0074 EA 15' Category 6A Patch Cables With Plastic Arch.....	53.10	
27 16 19 00-0075 EA 25' Category 6A Patch Cables With Plastic Arch.....	67.96	

27 20 Data Communications ⁽²⁷⁾

27 21 Data Communications Network Equipment ^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

27 21 16 00-0001 Fiber Optic Modems ^(27 21 16)		
27 21 16 00-0002 EA	Fiber Optic Modems, Range 6.2 Miles.....	1,959.30 244.89
27 21 16 00-0003 EA	Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	3,796.21 244.89
27 21 16 00-0004 Ethernet Hubs and Switches ^(27 21 16)		
27 21 16 00-0005 EA	16 Port Managed Hub With Fiberport And Standard Management.....	4,113.58 184.11
27 21 16 00-0006 EA	16 Port Unmanaged Hub.....	617.37 122.74
27 21 16 00-0007 EA	12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	5,672.41 122.74
27 21 16 00-0008 EA	Power Supply (Cisco PWR-IE170W-PC-AC).....	1,678.28 61.37
27 21 16 00-0009 Network Equipment ^(27 21 16)		
27 21 16 00-0010 Communications Entrance Protection ^(27 21 16 00-0009)		
27 21 16 00-0011 EA	100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,170.39 92.05
Note: Excludes terminations.		
27 21 16 00-0012 EA	Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	14.10 1.23
27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures ^(27 21 16 00-0009)		
27 21 16 00-0014 EA	19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,422.93 92.05
For Fan Kit (Chatsworth 12804-701), Add 199.00		
27 21 16 00-0015 EA	10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,305.54 6.13
27 21 16 00-0016 Communications Termination Blocks And Patch Panels ^(27 21 16 00-0009)		
27 21 16 00-0017 Communications Termination Blocks ^(27 21 16 00-0016)		
27 21 16 00-0018 EA	4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	363.11 18.37
27 21 16 00-0019 EA	5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	337.84 18.37
27 21 16 00-0020 EA	4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	811.59 18.37
27 21 16 00-0021 EA	5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	754.75 18.37

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0022	EA		110 Connector System Mounting Brackets (CommScope 107535593).....	112.95	18.37
27 21 16 00-0023	EA		110 Connector System Mounting Brackets (CommScope 107535585).....	122.14	18.37
27 21 16 00-0024	EA		110 Connector System Mounting Brackets (CommScope 107098816).....	139.32	18.37
27 21 16 00-0025			Communications Copper Patch Panels (27 21 16 00-0016) Note: Excludes cabinet and terminations.		
27 21 16 00-0026	EA		24 Port, Category 5E Patch Panel (CommScope 108208919).....	357.30	39.89
27 21 16 00-0027	EA		48 Port, Category 5E Patch Panel (CommScope 108208935).....	653.23	49.10
27 21 16 00-0028	EA		24 Port, Category 6 Patch Panel (CommScope 760062372).....	530.44	39.89
27 21 16 00-0029	EA		48 Port, Category 6 Patch Panel (CommScope 760062380).....	992.30	49.10
27 21 16 00-0030			Communications Optical Fiber Patch Panels (27 21 16 00-0016)		
27 21 16 00-0031			Closet Connector Housings (27 21 16 00-0030)		
27 21 16 00-0032	EA		48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U)..... Note: Accepts up to 2 closet connector housing panels. Excludes panels.	512.78	24.55
27 21 16 00-0033	EA		96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U)..... Note: Accepts up to 4 closet connector housing panels. Excludes panels.	600.48	24.55
27 21 16 00-0034	EA		288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U)..... Note: Accepts up to 12 closet connector housing panels. Excludes panels.	751.69	24.55
27 21 16 00-0035	EA		SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	128.52	12.27
27 21 16 00-0036	EA		SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	175.03	12.27
27 21 16 00-0037	EA		SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	144.94	12.27
27 21 16 00-0038	EA		SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	190.06	12.27
27 21 16 00-0039			Communications Cable Management (27 21 16 00-0009)		
27 21 16 00-0040			Horizontal Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0041	EA		1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	160.25	24.55
27 21 16 00-0042	EA		3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	166.01	24.55
27 21 16 00-0043			Vertical Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0044	EA		6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	997.05	61.37
27 21 16 00-0045	EA		19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	1,034.34	61.37
27 21 16 00-0046	EA		23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	1,118.24	61.37
27 21 16 00-0047			Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0009)		
27 21 16 00-0048			Premise Cross-Connect Wire (27 21 16 00-0047)		
27 21 16 00-0049	LF		1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.27	0.61
27 21 16 00-0050			Pathways For Communications Systems (27 21 16 00-0009)		
27 21 16 00-0051			Conduits And Backboxes For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052			Flexible Conduit For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0053	CLF		1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson DF4X1C).....	551.77	220.40
27 21 16 00-0054	CLF		1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson CF4X1C).....	853.03	220.40
27 21 16 00-0055			Tube Cables For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0056			Outdoor/All-Dielectric Tube Cables (27 21 16 00-0055)		
27 21 16 00-0057	CLF		Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	443.07	146.93
27 21 16 00-0058	CLF		Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TRX).....	666.26	183.66
27 21 16 00-0059	CLF		Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	1,120.02	220.40
27 21 16 00-0060			Indoor/Riser Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0061	CLF		Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	511.66	146.93
27 21 16 00-0062	CLF		Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	628.02	165.30
27 21 16 00-0063	CLF		Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	713.89	183.66
27 21 16 00-0064	CLF		Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,335.35	220.40
27 21 16 00-0065			Indoor/Plenum Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0066	CLF		Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	368.75	146.93
27 21 16 00-0067	CLF		Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	544.06	146.93
27 21 16 00-0068	CLF		Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	849.06	165.30
27 21 16 00-0069	CLF		Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	1,245.54	183.66
27 21 16 00-0070	CLF		Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	3,936.40	220.40
27 21 16 00-0071			Unjacketed Single Tube Cables (27 21 16 00-0055)		
27 21 16 00-0072	CLF		Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	315.39	146.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0073 Multimode Fiber Bundles <small>(27 21 16 00-0055)</small>		
Note: Includes optical fiber cables.		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	138.26	44.08
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	212.57	44.08
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	292.61	44.08
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	536.51	44.08
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	779.32	51.43
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	1,023.23	51.43
27 21 16 00-0080 Singlemode Fiber Bundles <small>(27 21 16 00-0055)</small>		
Note: Includes optical fiber cables.		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	123.01	44.08
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	155.41	44.08
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	182.09	44.08
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	233.53	44.08
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	360.11	51.43
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	476.34	51.43
27 21 16 00-0087 Tube Distribution Cabinets <small>(27 21 16 00-0055)</small>		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	270.93	61.37
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0089 Modular Fiber Termination Cabinets <small>(27 21 16 00-0055)</small>		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	345.65	61.37
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	369.28	61.37
27 21 16 00-0092 Tube Distribution Accessories <small>(27 21 16 00-0055)</small>		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	14.92	6.13
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	16.58	6.13
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	20.84	6.13
27 21 16 00-0096 Communications Optical Fiber Cabling <small>(27 21 16 00-0009)</small>		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations <small>(27 21 16 00-0096)</small>		
27 21 16 00-0098 Field Installed Fiber Connectors <small>(27 21 16 00-0097)</small>		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	45.24	9.20
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	39.77	9.20
27 21 16 00-0101 Buffer Tube Fan-Out Kits <small>(27 21 16 00-0097)</small>		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) <small>(27 21 16 00-0101)</small>		
Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	267.76	122.44
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	273.47	122.44
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	278.52	122.44
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	294.21	122.44
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	315.66	122.44
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	331.59	122.44
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) <small>(27 21 16 00-0101)</small>		
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	270.41	122.44
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	327.02	122.44
27 21 16 00-0112 Communications Copper Cabling <small>(27 21 16 00-0009)</small>		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations <small>(27 21 16 00-0112)</small>		
27 21 16 00-0114 Copper Communications Cable Splice Cases <small>(27 21 16 00-0113)</small>		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 800626)	1,224.78	244.89
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 800630)	1,434.86	244.89
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	2,132.90	244.89
27 21 16 00-0118 Modular Splice Connectors <small>(27 21 16 00-0113)</small>		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	132.63	61.22
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	130.36	61.22
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	132.68	61.22
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	132.36	61.22



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 21 26 Data Communications Network Management (27 21)

27 21 26 00-0001 Data Communications Network Management (27 21 26)

27 21 26 00-0002	EA	3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	692.95	30.61
27 21 26 00-0003	EA	2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	532.02	30.61
27 21 26 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	744.63	30.61
27 21 26 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	1,170.96	30.61
27 21 26 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	108.23	
27 21 26 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	516.53	18.37
27 21 26 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	858.60	30.61
27 21 26 00-0009	EA	VPN Router (Cisco 819HG).....	5,076.86	392.78
27 21 26 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	3,617.40	392.78
27 21 26 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	19,066.39	146.93
27 21 26 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis,2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	601.43	
27 21 26 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	13,001.96	146.93
27 21 26 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	28,274.79	146.93
27 21 26 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	666.56	12.27
27 21 26 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	4,889.95	15.31
27 21 26 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	4,240.58	15.31
27 21 26 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	75.58	6.13
27 21 26 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	241.14	61.22
27 21 26 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850--24TS).....	3,701.46	146.93
27 21 26 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	791.33	
27 21 26 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	25.03	6.13
27 21 26 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	329.74	15.31
27 21 26 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	822.03	15.35
27 21 26 00-0025	EA	1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	120.27	6.13
27 21 26 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,390.28	146.93
27 21 26 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	794.50	
27 21 26 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	703.26	15.31
27 21 26 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA/R).....	714.34	15.31
27 21 26 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,511.81	146.93
27 21 26 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	386.79	15.35
27 21 26 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,819.13	15.35
27 21 26 00-0033	EA	Router (CISCO IR829).....	1,626.30	61.37

27 21 29 Data Communications Switches and Hubs (27 21)

27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002	EA	12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	141.46	6.12
27 21 29 00-0003	EA	16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	156.45	6.12
27 21 29 00-0004	EA	24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	185.47	6.12
27 21 29 00-0005	EA	36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	194.38	6.12
27 21 29 00-0006	EA	48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	212.12	7.66
27 21 29 00-0007	EA	24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	201.76	6.12
27 21 29 00-0008	EA	48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	253.24	7.66
27 21 29 00-0009	EA	Rack Mount Rear Cable Management Bar.....	67.07	7.66

27 21 33 Data Communications Wireless Access Points (27 21)

27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)

27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	4,990.96	183.66
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	11,998.52	183.66
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	11,998.52	183.66
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	1,949.66	183.66
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	2,290.23	206.80
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	6,418.80	206.80
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	9,755.76	206.80
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	9,755.76	206.80
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	2,000.49	68.93
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	2,028.51	68.93
27 21 33 00-0012	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	188.07	34.47
27 21 33 00-0013	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,740.97	
27 21 33 00-0014	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	619.41	61.22
27 21 33 00-0015	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-VH).....	512.97	61.22
27 21 33 00-0016	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	90.44	24.49
27 21 33 00-0017	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	80.29	
27 21 33 00-0018	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	46.76	
27 21 33 00-0019	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	328.09	61.22



Communications	27	27
Data Communications	27 20	
Data Communications Network Equipment	27 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0020	EA		Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	330.15	61.22
27 21 33 00-0021	EA		2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D)	451.62	61.37
27 21 33 00-0022	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,143.55	92.05
27 21 33 00-0023	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,463.91	92.05
27 21 33 00-0024	EA		Magnetic Mount Cellular Antenna (Wilson Electronics 301125)	81.60	18.37
27 21 33 00-0025	EA		Yagi Antenna, 890-960 MHZ, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	309.53	68.93
27 21 33 00-0026	EA		Andrew® Omni Antenna, 890-960 MHZ, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	1,019.18	68.93
27 21 33 00-0027	EA		Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC)	5,021.20	61.37
27 21 33 00-0028	EA		Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,548.83	61.22

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002	EA		Communications Equipment Enclosure..... Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72" H x 72" W x 36" D, 0.0125" 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.	21,670.46	368.23
27 22 19 00-0003	EA		Wall Mounted Equipment Cabinet..... Note: Mid-Atlantic DWR-24-22 PD.	1,421.64	122.74
27 22 19 00-0004	EA		APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel..... Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Stihle Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	10,749.67	
27 22 19 00-0005	EA		APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel..... Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Stihle Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	38,933.70	

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 19 External Drives (27 24)

27 24 19 00-0001 Network Equipment (27 24 19)

27 24 19 00-0002	EA		19" Rack Mountable 110-24T Ethernet Switch..... Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.	619.33	40.77
27 24 19 00-0003	EA		19" Rack Mountable Station Access Router..... Note: Nortel Network part number SR2101031E5. Includes testing.	3,231.88	214.28
27 24 19 00-0004	EA		19" Rack Mount LCD Monitor..... Note: Nortel Network part number SR2101031E5. Includes testing.	1,541.87	97.95
27 24 19 00-0005	EA		1000VA UPS (Uninterruptible Power Supply)..... Note: APC SUA1000RM2U. Includes testing.	1,477.42	111.88
27 24 19 00-0006	EA		1000VA UPS (Uninterruptible Power Supply)..... Note: APC BR1000. Includes testing.	595.31	111.88
27 24 19 00-0007	EA		1200VA UPS (Uninterruptible Power Supply)..... Note: APC BR1200. Includes testing.	611.25	111.88

27 30 Voice Communications (27)

27 32 Voice Communications Terminal Equipment (27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets (27 32)

27 32 13 00-0001 Interior Telephone Components (27 32 13)

27 32 13 00-0002	EA		Solid State Exchange Unit With Power Supply.....	7,699.52	1,118.90
27 32 13 00-0003	EA		Dial Telephone - Handset In Cabinet.....	926.33	91.47
27 32 13 00-0004	EA		Elevator Cab Telephone With Trailer Cable.....	467.56	98.08
27 32 13 00-0005	EA		Loud Ring Bell, 6".....	366.11	90.98
27 32 13 00-0006	EA		Audio/Visual Indicator.....	468.14	85.71
27 32 13 00-0007	EA		Administrative Telephone With Digital Display.....	488.30	76.89
27 32 13 00-0008	EA		Processing Unit For 16 Station System.....	2,406.11	627.29

27	Communications
27 30	Voice Communications
27 32	Voice Communications Terminal Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 32 13 00-0009	EA		Handset For 16 Station System	343.83	62.44
27 32 13 00-0010	EA		Handset In Cabinet, For 16 Station System	465.78	84.25
27 32 13 00-0011	MLF		20 Conductor Unshielded Cable, #22	3,068.94	1,350.20
27 32 13 00-0012	EA		Power Supply For 16 Station System	427.52	166.65
27 32 13 00-0013	EA		Intercom Terminal Board	375.58	187.59
27 32 13 00-0014	EA		Power Supply For Five Station System, 24 Volt DC	444.77	166.65
27 32 13 00-0015	EA		Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	217.63	68.48
27 32 13 00-0016	EA		Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	684.26	150.71
27 32 13 00-0017	EA		Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	808.46	171.30
27 32 13 00-0018	EA		Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	980.80	202.73
27 32 13 00-0019	EA		Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	1,158.70	219.19
27 32 13 00-0020	EA		Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,812.24	249.39
27 32 13 00-0021	EA		Ring Rung 3"	13.27	6.83
27 32 13 00-0022	EA		G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	33.35	12.12
27 32 13 00-0023	EA		G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	60.38	24.85

27 32 13 00-0024 Interior Telephone Accessories (27 32 13)

27 32 13 00-0025	EA		Blank Telephone Receptacle, Exposed Devices - Complete	13.69	6.61
27 32 13 00-0026	EA		4-Pin Telephone Receptacle, Exposed Devices - Complete	29.78	25.46
27 32 13 00-0027	EA		Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	73.66	27.98
27 32 13 00-0028	EA		Wall Mount, Level 5, RJ-45 Jack, Complete	69.72	27.98
27 32 13 00-0029	EA		Terminating Strips, Inside	141.41	55.94
27 32 13 00-0030	EA		Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	62.09	28.77
27 32 13 00-0031	EA		Ready Access Closure 3 To 25 Pair	170.89	67.47
27 32 13 00-0032	EA		Ready Access Closure 25 To 100 Pair	199.89	75.43
27 32 13 00-0033	EA		Termination Block With Bracket 25 Pair	64.64	22.65
27 32 13 00-0034	EA		RJ-11 Telephone Receptacle, Concealed Devices - Complete	60.96	28.40
27 32 13 00-0035	EA		Interior Protected Terminal 25 Pair	737.03	163.59
27 32 13 00-0036	EA		Interior Protected Terminal 50 Pair	874.03	166.16
27 32 13 00-0037	EA		Pedestal 6" x 6" x 50" 3 To 100 Pair	293.46	68.08
27 32 13 00-0038	EA		Pedestal 8" x 8" x 50" 100 To 300 Pair	302.90	68.08
27 32 13 00-0039	EA		Pedestal 10" x 10" x 43" 300 To 600 Pair	400.02	87.06
27 32 13 00-0040	EA		Pedestal 10" x 16" x 43" 600 To 1000 Pair	830.31	156.85
27 32 13 00-0041	EA		Entrance Protector Terminal 100 Pair	1,149.30	179.02
27 32 13 00-0042	EA		Gas Protection Module	17.78	6.12
27 32 13 00-0043	EA		Terminating Boxes, Outside With 3 Element Protectors, Per Pair	30.88	5.59

27 32 26 Ring-Down Emergency Telephones (27 32)

27 32 26 00-0001 Emergency Telephone (27 32 26)

Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002	EA		Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	11,495.57	502.82
27 32 26 00-0003	EA		Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	12,095.00	502.82
27 32 26 00-0004	EA		Analog Speakerphone With Black Info Button And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2)	199.81	
27 32 26 00-0005	EA		Analog Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2-K)	299.72	
27 32 26 00-0006	EA		IP Speakerphone With Single Red Push For Help Button Code Blue Option (Code Blue IP5000 FP1)	749.29	
27 32 26 00-0007	EA		IP Speakerphone With Back Info Button And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2)	1,019.03	
27 32 26 00-0008	EA		IP Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2-K)	1,118.94	
27 32 26 00-0009	EA		EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	19.98	
27 32 26 00-0010	EA		EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	19.98	
27 32 26 00-0011	EA		Directory, Second Opening Code Blue Option	179.83	
27 32 26 00-0012	EA		Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	1,898.20	
27 32 26 00-0013	EA		HID Card Reader, Second Opening Code Blue Option	879.17	
27 32 26 00-0014	EA		HID Card Reader And Color IP Camera, Second Opening Code Blue Option	2,847.30	
27 32 26 00-0015	EA		IP Wireless Communication Code Blue Option	5,984.32	
			Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016	EA		Active Venting Code Blue Option	319.70	
27 32 26 00-0017	EA		Night Charge Power Code Blue Option	2,787.36	
			Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018	EA		Power Transformer Kit, Alternate Incoming Power Code Blue Option	699.34	
27 32 26 00-0019	EA		Overhead Camera Mount Code Blue Option	1,588.49	
			Note: Excludes camera.		
27 32 26 00-0020	EA		Custom Color For Overhead Camera Mount Code Blue Option	69.93	

27 32 26 00-0021 City Police Call System (27 32 26)



Communications	27	27
Voice Communications	27 30	
Voice Communications Terminal Equipment	27 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 32 26 00-0022	Components (27 32 26 00-0021)		
27 32 26 00-0023	EA City Police Call System.....	894.94	142.77
27 32 26 00-0024	EA Concrete Foundation For Police Department Telephone Post	795.57	206.81

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)		
	See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.		

27 41 16 00-0002	Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003	EA Ceiling Mounted Television Support, 19" To 20".....	491.28	137.47
27 41 16 00-0004	EA Ceiling Mounted Television Support, 19" To 20" With Rack	636.55	153.42
27 41 16 00-0005	EA Ceiling Mounted Television Support, 25" To 27".....	513.47	137.47
27 41 16 00-0006	EA Ceiling Mounted Television Support, 25" To 27" With Rack	658.73	153.42
27 41 16 00-0007	EA Wall Mounted Television Support, 13".....	389.44	110.47
27 41 16 00-0008	EA Wall Mounted Television Support, 13" With Rack.....	534.69	122.74
27 41 16 00-0009	EA Wall Mounted Television Support, 19" To 20".....	418.55	110.47
27 41 16 00-0010	EA Wall Mounted Television Support, 19" To 20" With Rack	563.80	122.74
27 41 16 00-0011	EA Wall Mounted Television Support, 25" To 27".....	447.66	110.47
27 41 16 00-0012	EA Wall Mounted Television Support, 25" To 27" With Rack	592.91	122.74

27 41 16 00-0013	Distribution System (27 41 16 00-0001)		
	See CSI section 26 05 13 16-0001 for wire and cabling.		

27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015	EA Steel Rack Cabinet With Shelves	1,749.47	225.18
27 41 16 00-0016	EA Switch And Pilot Light.....	267.01	100.04
27 41 16 00-0017	LF Surface Raceway With Outlets	31.82	13.59
27 41 16 00-0018	EA Service Label.....	37.54	18.73

27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020	EA Head End Amplifier.....	1,167.20	149.87

27 41 16 00-0021	UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022	EA UHF In-Line Booster.....	676.69	149.87

27 41 16 00-0023	Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024	EA VHF Preamplifier	849.41	149.87
27 41 16 00-0025	EA UHF Preamplifier	676.69	149.87

27 41 16 00-0026	Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027	EA Common Power Supply	1,213.44	214.15

27 41 16 00-0028	Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029	EA Line Splitter.....	102.42	49.95
27 41 16 00-0030	EA Two-Way Splitter	116.17	49.95
27 41 16 00-0031	EA Frequency Filter.....	260.68	75.06
27 41 16 00-0032	EA Line Splitter And Mixer.....	312.87	110.20

27 41 16 00-0033	Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034	EA 120-Volt Power Supply Line Filter.....	508.81	100.04

27 41 16 00-0035	Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036	EA Wall Box With Lockable Cover, Excluding Outlet Plug	260.68	75.06
27 41 16 00-0037	EA TV Receiver Outlet Plug	116.17	49.95
27 41 16 00-0038	EA TV Camera Outlet Plug.....	116.17	49.95
27 41 16 00-0039	EA Audio Outlet Plug.....	98.94	49.95
27 41 16 00-0040	EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings	206.55	100.04
27 41 16 00-0041	EA Male Plug PL-259	116.17	49.95
27 41 16 00-0042	EA Wall Box And Receiver Outlet Television Outlets	136.09	52.40

27 41 33 Master Antenna Television Systems (27 41)

27 41 33 00-0001	Antenna Systems (27 41 33)		
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27 Communications
27 40 Audio-Video Communications
27 41 Audio-Video Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 33 00-0002			Antenna <small>(27 41 33 00-0001)</small>		
27 41 33 00-0003	EA		Amateur Radio Antenna.....	1,103.61	183.66
27 41 33 00-0004	EA		Multi-Band Radio Antenna.....	856.18	183.66
27 41 33 00-0005			Receptacles <small>(27 41 33 00-0001)</small>		
27 41 33 00-0006	EA		Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	243.43	75.06
27 41 33 00-0007	EA		Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	243.43	75.06

27 50 Distributed Communications and Monitoring Systems (27)

27 51 Distributed Audio-Video Communications Systems (27 50)

27 51 17 Video Intercom and Exterior Gate Control System (27 51)

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 17 00-0001			Video Intercom And Exterior Gate Control System <small>(27 51 17)</small>		
27 51 17 00-0002	EA		Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW).....	1,523.05	153.42
27 51 17 00-0003	EA		Audio Video Master Control Station (Aiphone AX-8MV).....	1,224.53	153.42
27 51 17 00-0004	EA		16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	514.17	153.42
27 51 17 00-0005	EA		Central Exchange Unit (Aiphone AX-084C).....	1,451.16	76.72
27 51 17 00-0006	EA		Central Exchange Unit (Aiphone AX-248C).....	1,977.71	76.72
27 51 17 00-0007	EA		Touch Tone Programmable Dialer (Viking K-1900-5).....	149.18	30.68
27 51 17 00-0008	EA		Surface Mount Audio/Video Door Station (Aiphone IX-DV).....	1,046.03	30.68
27 51 17 00-0009	EA		Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF).....	1,437.88	30.68
27 51 17 00-0010	EA		Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	466.30	30.68
27 51 17 00-0011	EA		Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	525.73	30.68
27 51 17 00-0012	EA		12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL).....	142.62	15.35
			Note: UL Listed		
27 51 17 00-0013	EA		24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL).....	155.07	15.35
			Note: UL Listed		
27 51 17 00-0014	EA		IP Video Master Station (Aiphone IX-MV).....	1,859.89	153.42
27 51 17 00-0015	EA		Handset Only For IX-MV (Aiphone 285999).....	63.65	6.13
27 51 17 00-0016	EA		Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	789.19	153.42
27 51 17 00-0017	EA		Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	748.24	30.68
27 51 17 00-0018	EA		Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	227.21	30.68
27 51 17 00-0019	EA		Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	253.48	30.68
27 51 17 00-0020	EA		Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	310.42	46.03
27 51 17 00-0021	EA		Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880).....	69.12	15.35

27 51 23 Intercommunications and Program Systems (27 51)

27 51 23 20 Commercial Intercommunications and Program Systems (27 51 23)

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 23 20-0001			Intercom <small>(27 51 23 20)</small>		
27 51 23 20-0002	EA		Aiphone Intercom, Master.....	2,109.53	
27 51 23 20-0003	EA		Aiphone Intercom, Remotes.....	769.15	

27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0001			Amplifiers <small>(27 51 43)</small>		
27 51 43 00-0002	EA		10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	558.97	122.74
27 51 43 00-0003	EA		35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	793.96	122.74
27 51 43 00-0004	EA		60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	944.80	122.74
27 51 43 00-0005	EA		100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	1,052.42	122.74
27 51 43 00-0006	EA		150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,313.20	122.74
27 51 43 00-0007	EA		250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,703.16	122.74
27 51 43 00-0008	EA		Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK).....	67.47	6.13
27 51 43 00-0009			Splitters <small>(27 51 43)</small>		
27 51 43 00-0010	EA		24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE).....	3,407.53	91.83
27 51 43 00-0011	EA		1-in/11-out Splitter (Doug Fleenor DMX).....	3,073.30	91.83
27 51 43 00-0012			Speakers <small>(27 51 43)</small>		
27 51 43 00-0013	EA		8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W).....	216.37	32.82
27 51 43 00-0014	EA		8" Steel Baffle (Atlas Sound 51-8).....	69.84	6.12
27 51 43 00-0015	EA		T-Bar Support (Atlas Sound EZ95-8).....	78.05	6.12
27 51 43 00-0016	EA		8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408).....	122.03	6.12
27 51 43 00-0017	EA		Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA).....	112.48	11.02
27 51 43 00-0018			Accessories <small>(27 51 43)</small>		
27 51 43 00-0019	EA		Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	329.10	15.35
27 51 43 00-0020	EA		5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	740.50	15.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	186.23	30.68
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	346.26	30.68
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	252.65	30.61
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	116.10	30.68
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	988.68	122.74
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A)	110.92	30.68
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8)	77.35	30.68

27 51 43 00-0028	Removal And Reinstallation Of Speakers <small>(27 51 43)</small>	
	Note: Includes storage, cleaning and supply materials.	
27 51 43 00-0029	EA Removal And Reinstallation Of Ceiling Mounted Speaker	171.42

27 53 Distributed Systems (27 50)

27 53 13 Clock Systems (27 53)

27 53 13 16 Wired Clock Systems (27 53 13)

27 53 13 16-0001	Wired Self-Corrective Clock Systems <small>(27 53 13 16)</small>	
27 53 13 16-0002	Wired Self-Corrective Clocks <small>(27 53 13 16-0001)</small>	
27 53 13 16-0003	Analog, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 16-0002)</small>	
27 53 13 16-0004	24 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>	
27 53 13 16-0005	EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	282.28
	<i>For >50 To 100, Deduct</i>	-18.00
	<i>For >100, Deduct</i>	-26.84
27 53 13 16-0006	EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	676.83
	<i>For >50 To 100, Deduct</i>	-33.78
	<i>For >100, Deduct</i>	-58.40
27 53 13 16-0007	EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	355.03
	<i>For >50 To 100, Deduct</i>	-23.84
	<i>For >100, Deduct</i>	-35.60
27 53 13 16-0008	EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	895.09
	<i>For >50 To 100, Deduct</i>	-92.54
	<i>For >100, Deduct</i>	-125.89
27 53 13 16-0009	120 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>	
27 53 13 16-0010	EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	282.28
	<i>For >50 To 100, Deduct</i>	-18.00
	<i>For >100, Deduct</i>	-26.84
27 53 13 16-0011	EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	676.83
	<i>For >50 To 100, Deduct</i>	-33.78
	<i>For >100, Deduct</i>	-58.40
27 53 13 16-0012	EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	355.03
	<i>For >50 To 100, Deduct</i>	-23.84
	<i>For >100, Deduct</i>	-35.60
27 53 13 16-0013	EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount	895.09
	<i>For >50 To 100, Deduct</i>	-92.54
	<i>For >100, Deduct</i>	-125.89
27 53 13 16-0014	Accessories For Analog Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>	
27 53 13 16-0015	EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks	233.48
27 53 13 16-0016	EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	58.59
27 53 13 16-0017	EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	74.69
27 53 13 16-0018	EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	91.48
27 53 13 16-0019	EA Combination Back Box For Speaker And Clock	158.54
27 53 13 16-0020	Digital, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 16-0002)</small>	
27 53 13 16-0021	24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>	
27 53 13 16-0022	EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	349.44
	<i>For Surface Mount, Add</i>	57.64
	<i>For >50 To 100, Deduct</i>	-17.29
	<i>For >100, Deduct</i>	-28.82
27 53 13 16-0023	EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	539.72
	<i>For Surface Mount, Add</i>	95.70
	<i>For >50 To 100, Deduct</i>	-28.71
	<i>For >100, Deduct</i>	-47.85
27 53 13 16-0024	120 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>	
27 53 13 16-0025	EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	349.44
	<i>For Surface Mount, Add</i>	57.64
	<i>For >50 To 100, Deduct</i>	-17.29
	<i>For >100, Deduct</i>	-28.82

27 Communications
27 50 Distributed Communications and Monitoring Systems
27 53 Distributed Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0026	EA		4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount..... <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	539.72 95.70 -28.71 -47.85	30.61
27 53 13 16-0027			Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks <i>(27 53 13 16-0020)</i>		
27 53 13 16-0028	EA		2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	298.38 -14.23 -23.72	30.61
27 53 13 16-0029	EA		4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	493.55 -25.94 -43.23	30.61
27 53 13 16-0030			Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks <i>(27 53 13 16-0020)</i>		
27 53 13 16-0031	EA		2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	298.38 -14.23 -23.72	30.61
27 53 13 16-0032	EA		4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	493.55 -25.94 -43.23	30.61
27 53 13 16-0033			Accessories For Digital Wired Self-Corrective Clocks <i>(27 53 13 16-0020)</i>		
27 53 13 16-0034	EA		Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	318.83	15.31
27 53 13 16-0035	EA		2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	75.38	15.31
27 53 13 16-0036	EA		4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	104.76	15.31
27 53 13 16-0037	EA		Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	278.25	15.31
27 53 13 16-0038	EA		4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	77.49	15.31
27 53 13 16-0039			Wired Self-Corrective Master Clocks <i>(27 53 13 16-0001)</i>		
27 53 13 16-0040			Wired Self-Corrective Master Clocks <i>(27 53 13 16-0039)</i>		
27 53 13 16-0041	EA		24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	3,282.42	244.89
27 53 13 16-0042	EA		120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	3,492.29	244.89
27 53 13 16-0043			Accessories For Wired Self-Corrective Master Clocks <i>(27 53 13 16-0039)</i>		
27 53 13 16-0044	EA		5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	334.42	61.22
27 53 13 16-0045	EA		10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	378.48	61.22
27 53 13 16-0046			Other Clock And Program Systems <i>(27 53 13 16)</i>		
27 53 13 16-0047	EA		4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	1,988.13	122.44
27 53 13 16-0048	EA		8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,398.31	244.89
27 53 13 16-0049	EA		Program Bell (Lathem 906-6).....	290.31	61.22
27 53 13 16-0050	EA		Combination Clock And Speaker.....	658.28	153.05

END OF SECTION 27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001	Monitoring System For Underground Tanks ^(28 42 11)		
28 42 11 00-0002	Continuous Leak Detection System ^(28 42 11 00-0001)	Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.	
28 42 11 00-0003	EA Single Channel Underground Tank Monitoring System.....	17,034.20	502.03
28 42 11 00-0004	EA 2 Channel Underground Tank Monitoring System.....	23,000.87	669.77
28 42 11 00-0005	EA 3 Channel Underground Tank Monitoring System.....	33,054.74	717.53
28 42 11 00-0006	EA 4 Channel Underground Tank Monitoring System.....	34,934.22	1,004.05
28 42 11 00-0007	EA Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	25,924.65	85.71
28 42 11 00-0008	EA Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System.....	23,380.47	76.53
28 42 11 00-0009	EA Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System.....	30,777.75	85.71
28 42 11 00-0010	EA Tank Leak Detection Probe.....	9,545.29	18.37
28 42 11 00-0011	EA Secondary Containment Collar Probe.....	1,153.87	7.34
28 42 11 00-0012	EA Interstitial Leak Detection Probe.....	2,110.88	15.31
28 42 11 00-0013	EA Liquid Phase Detection.....	6,976.43	45.92
28 42 11 00-0014	EA Hydrocarbon Vapor, Fixed.....	6,431.69	45.92
28 42 11 00-0015	EA Hydrocarbon Vapor, Float Mounted.....	7,526.95	52.04
28 42 11 00-0016	EA Liquid And Vapor Hydrocarbon.....	8,616.42	52.04

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001	Hydrogen Gas Detection ^(28 42 15)		
28 42 15 00-0002	EA Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR).....	2,014.96	46.03
28 42 15 00-0003	EA Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	105.88	15.35
28 42 15 00-0004	EA Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM).....	511.01	46.03

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 13 Fire-Alarm Systems ^(28 46)

28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems ^(28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001	Edwards Fire Alarm ^(28 46 13 31)		
28 46 13 31-0002	EST3 Life Safety And Security Control ^(28 46 13 31-0001)		
28 46 13 31-0003	EST3 Network ^(28 46 13 31-0002)		
28 46 13 31-0004	Remote Annunciators ^(28 46 13 31-0003)		
28 46 13 31-0005	EA Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,625.82	92.05
	Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 13 31-0006	EA Six Position Base Annunciator (EST3 3-6ANN).....	1,324.23	92.05
	Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 13 31-0007	EA Ten Position Base Annunciator (EST3 3-10ANN).....	1,675.90	92.05
	Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 13 31-0008	EA Annunciator CPU (EST3 3-ANNCPU3).....	1,066.79	92.05
	Note: One Required per graphic annunciator.		
28 46 13 31-0009	EA Annunciator Support Module (EST3 3-ANNSM).....	195.69	30.68
	Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 13 31-0010	EA Liquid Crystal Display Module (EST3 3-LCD).....	684.45	92.05
	Note: Mounts over 3-CPU(1).		
28 46 13 31-0011	EA Liquid Crystal Display Module (EST3 3-LCDXL).....	688.65	92.05
	Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 13 31-0012	EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	772.61	92.05
	Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 13 31-0013	EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	902.47	61.37
	Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 13 31-0014	EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	135.82	30.68
	Note: Mounts up to three 3-EVDVRA modules.		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0015	EA		Central Processor Unit Module (EST3 3-CPU3)..... Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,926.13	92.05
28 46 13 31-0016	EA		120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,702.07	30.68
28 46 13 31-0017			Remote Annunciators Cabinets (28 46 13 31-0003)		
28 46 13 31-0018	EA		Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B).....	146.52	30.68
28 46 13 31-0019	EA		Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S)	134.25	24.55
28 46 13 31-0020	EA		Six Position LED/LCD Flush Wallbox (EST3 6ANN/B)	165.42	30.68
28 46 13 31-0021	EA		Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	153.15	24.55
28 46 13 31-0022	EA		Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	183.15	30.68
28 46 13 31-0023	EA		Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	170.88	24.55
28 46 13 31-0024			Audio And Telephone Masters (28 46 13 31-0003)		
28 46 13 31-0025	EA		Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	5,306.13	122.74
28 46 13 31-0026	EA		Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	2,952.41	122.74
28 46 13 31-0027	EA		Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,900.97	122.74
28 46 13 31-0028	EA		Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU)	2,790.58	122.74
28 46 13 31-0029	EA		Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	3,187.71	122.74
28 46 13 31-0030	EA		Zoned Amplifier, 95 Watt, Class B, 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,864.51	61.37
28 46 13 31-0031			Battery Distribution Unit (28 46 13 31-0003)		
28 46 13 31-0032	EA		Battery Distribution Unit (EST3 3-BTSEN).....	580.92	458.17
28 46 13 31-0033			Remote Booster Power Supply (28 46 13 31-0003)		
28 46 13 31-0034	EA		6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	919.75	92.05
28 46 13 31-0035	EA		10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	1,050.64	92.05
28 46 13 31-0036	EA		10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,147.08	92.05
28 46 13 31-0037	EA		Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	149.69	30.68
28 46 13 31-0038			Batteries And Battery Cabinets (28 46 13 31-0003)		
28 46 13 31-0039	EA		1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	113.75	30.68
28 46 13 31-0040	EA		4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	142.18	30.68
28 46 13 31-0041	EA		24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	338.36	30.68
28 46 13 31-0042	EA		6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	153.57	30.68
28 46 13 31-0043	EA		40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	429.43	30.68
28 46 13 31-0044	EA		10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)).....	240.91	30.68
28 46 13 31-0045	EA		50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	873.15	30.68
28 46 13 31-0046	EA		17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	246.78	30.68
28 46 13 31-0047	EA		65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	1,051.55	30.68
28 46 13 31-0048	EA		8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	136.64	30.68
28 46 13 31-0049	EA		10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	122.44	30.68
28 46 13 31-0050	EA		14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)..... Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	439.97	61.37
28 46 13 31-0051	EA		22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2)	363.39	61.37
			Note: Holds up to two 12V17A batteries.		
28 46 13 31-0052	EA		Remote Closet Enclosure (EST3 3-RCC7R)	1,245.96	122.74
28 46 13 31-0053	EA		Remote Closet Enclosure (EST3 3-RCC14R)	1,547.46	122.74
28 46 13 31-0054	EA		Remote Closet Enclosure (EST3 3-RCC21R)	2,172.68	122.74
28 46 13 31-0055			Serial Printer (28 46 13 31-0003)		
28 46 13 31-0056	EA		System Printer - Desk Top Style (EST3 PT-1S)	974.35	30.68
28 46 13 31-0057			Intelligent Analog Initiating Devices (28 46 13 31-0002)		
28 46 13 31-0058			Detectors, Signature (28 46 13 31-0057)		
28 46 13 31-0059	EA		Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	263.56	46.03
28 46 13 31-0060	EA		Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	296.66	46.03
28 46 13 31-0061	EA		Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS)	253.70	46.03
28 46 13 31-0062	EA		Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS)	224.11	46.03
28 46 13 31-0063	EA		Intelligent Ionization Smoke Detector (EST3 SIGA-IS).....	233.97	46.03
28 46 13 31-0064	EA		135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS)	191.13	46.03
28 46 13 31-0065	EA		135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS)	191.13	46.03
28 46 13 31-0066	EA		Passive Infrared Motion Detector (EST3 SIGA-MD).....	305.47	46.03
28 46 13 31-0067	EA		Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	337.77	46.03
28 46 13 31-0068	EA		Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	284.31	46.03
28 46 13 31-0069	EA		Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	412.56	46.03
28 46 13 31-0070	EA		135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	236.45	46.03
28 46 13 31-0071	EA		135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	236.45	46.03
28 46 13 31-0072	EA		Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS).....	327.41	46.03



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0073			Detectors, Duct Housings and Accessories, Signature <small>(28 46 13 31-0057)</small>		
28 46 13 31-0074	EA		Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD).....	534.47	76.72
28 46 13 31-0075	EA		Superduct, Test Magnet Kit (EST3 SD-MAG).....	22.71	
28 46 13 31-0076	EA		Superduct, 120" Air Sample Tube (EST3 SD-T120).....	69.64	18.41
28 46 13 31-0077	EA		Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK).....	139.26	24.55
28 46 13 31-0078	EA		Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS).....	189.31	24.55
28 46 13 31-0079	EA		High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL).....	82.15	24.55
28 46 13 31-0080			Modules, Signature <small>(28 46 13 31-0057)</small>		
28 46 13 31-0081	EA		Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB).....	249.33	30.68
28 46 13 31-0082	EA		Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	116.94	30.68
28 46 13 31-0083	EA		Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2).....	155.70	30.68
28 46 13 31-0084	EA		Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	222.95	30.68
28 46 13 31-0085	EA		Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	170.32	30.68
28 46 13 31-0086	EA		Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	178.37	30.68
28 46 13 31-0087	EA		Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)..... Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).	137.42	30.68
28 46 13 31-0088	EA		Control Relay UIO (Plug In) Module (EST3 SIGA-MCR).....	193.43	30.68
28 46 13 31-0089	EA		Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S).....	259.36	30.68
28 46 13 31-0090	EA		Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO).....	252.74	30.68
28 46 13 31-0091	EA		Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO).....	242.88	30.68
28 46 13 31-0092	EA		Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	222.43	191.74
28 46 13 31-0093	EA		Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)..... Note: Factory programmed for non-latching monitor operation.	162.00	30.68
28 46 13 31-0094	EA		Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	260.45	30.68
28 46 13 31-0095			Module Accessories, Signature <small>(28 46 13 31-0057)</small>		
			Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 13 31-0096	EA		Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	63.81	15.35
28 46 13 31-0097	EA		Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	219.75	30.68
28 46 13 31-0098	EA		Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P).....	23.34	9.20
28 46 13 31-0099	EA		Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1).....	75.22	15.35
28 46 13 31-0100	EA		Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2).....	67.02	15.35
28 46 13 31-0101	EA		Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L).....	70.26	15.35
28 46 13 31-0102			Single Action Pull Stations, Signature <small>(28 46 13 31-0057)</small>		
28 46 13 31-0103	EA		One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	271.26	63.82
28 46 13 31-0104	EA		Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	320.73	63.82
28 46 13 31-0105	EA		GA Key - For Pre Signal Station (EST3 276-K2).....	37.39	31.25
28 46 13 31-0106	EA		20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR).....	46.92	40.78
28 46 13 31-0107	EA		Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB).....	70.46	45.91
28 46 13 31-0108			Double Action Pull Stations, Signature <small>(28 46 13 31-0057)</small>		
28 46 13 31-0109	EA		Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278).....	209.76	63.82
28 46 13 31-0110	EA		12 Glass Rods For SIGA-278 Series (EST3 276-GLR).....	47.63	6.13
28 46 13 31-0111			Detector Bases and Accessories, Signature <small>(28 46 13 31-0057)</small>		
			Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 13 31-0112	EA		Audible (Sounder) Base (EST3 SIGA-AB4G).....	136.99	15.35
28 46 13 31-0113	EA		Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB).....	50.57	15.35
28 46 13 31-0114	EA		Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4).....	171.31	15.35
28 46 13 31-0115	EA		Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	96.77	15.35
28 46 13 31-0116	EA		Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB).....	113.25	15.35
28 46 13 31-0117	EA		Detector Mounting Plate (EST3 SIGA-DMP)..... Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.	179.20	15.35
28 46 13 31-0118	EA		Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED).....	63.81	15.35
28 46 13 31-0119	EA		Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS).....	23.48	9.20
28 46 13 31-0120	EA		Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4).....	23.48	9.20
28 46 13 31-0121	EA		Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF).....	68.02	9.20
28 46 13 31-0122	EA		Detector Base With Isolator (EST3 SIGA-IB).....	111.59	15.35

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0123	EA		Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	118.65	15.35
28 46 13 31-0124	EA		Detector Base With Form 'C' Relay (EST3 SIGA-RB).....	68.70	15.35
28 46 13 31-0125	EA		Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	99.26	15.35
28 46 13 31-0126	EA		Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4).....	43.11	15.35
28 46 13 31-0127			Controllers, Signature (28 46 13 31-0057)		
28 46 13 31-0128	EA		Signature Dual Driver Controller (EST3 3-SDDC1)	3,805.24	92.05
28 46 13 31-0129	EA		Single Signature Loop Controller (EST3 3-SSDC1).....	2,179.63	92.05
28 46 13 31-0130	EA		Signature Loop Controller (EST3 3-SDC1).....	1,957.74	92.05
28 46 13 31-0131	EA		Analog Addressable Loop Controller (EST3 3-AADC1).....	3,140.15	92.05
28 46 13 31-0132			Relays And Accessories (28 46 13 31-0057)		
28 46 13 31-0133	EA		Multi Voltage Relay (EST3 MR101).....	200.95	30.68
28 46 13 31-0134	EA		Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	59.60	15.35
28 46 13 31-0135			Notification Appliances (28 46 13 31-0002)		
28 46 13 31-0136			Wall Strobes, Horns And Chimes (28 46 13 31-0135)		
28 46 13 31-0137	EA		Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	162.55	46.03
28 46 13 31-0138	EA		Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	162.55	46.03
28 46 13 31-0139	EA		Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	185.52	46.03
28 46 13 31-0140	EA		Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	136.68	46.03
28 46 13 31-0141	EA		Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	136.68	46.03
28 46 13 31-0142	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	136.68	46.03
28 46 13 31-0143	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	136.68	46.03
28 46 13 31-0144	EA		Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P).....	114.94	46.03
28 46 13 31-0145	EA		Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	114.94	46.03
28 46 13 31-0146	EA		Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	114.94	46.03
28 46 13 31-0147	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	279.24	46.03
28 46 13 31-0148	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	279.24	46.03
28 46 13 31-0149	EA		Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	182.72	46.03
28 46 13 31-0150	EA		Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	182.72	46.03
28 46 13 31-0151	EA		Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	162.55	46.03
28 46 13 31-0152	EA		Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	162.55	46.03
28 46 13 31-0153	EA		Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	162.55	46.03
28 46 13 31-0154	EA		Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	162.55	46.03
28 46 13 31-0155	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	169.01	46.03
28 46 13 31-0156	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	169.01	46.03
28 46 13 31-0157	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH).....	184.11	46.03
28 46 13 31-0158	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	169.01	46.03
28 46 13 31-0159	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	169.01	46.03
28 46 13 31-0160	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	100.81	46.03
28 46 13 31-0161	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	100.81	46.03
28 46 13 31-0162			Wall Speakers And Speaker Strobes (28 46 13 31-0135)		
28 46 13 31-0163	EA		Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	134.73	46.03
28 46 13 31-0164	EA		Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	207.56	46.03
28 46 13 31-0165	EA		Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	134.73	46.03
28 46 13 31-0166	EA		Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM).....	207.56	46.03
28 46 13 31-0167	EA		Surface Box, White, For Genesis Speaker (EST3 G4B).....	66.85	24.55
28 46 13 31-0168	EA		Surface Box, Red, For Genesis Speaker (EST3 G4RB).....	66.85	24.55
28 46 13 31-0169			Ceiling Speakers And Speaker Strobes (28 46 13 31-0135)		
28 46 13 31-0170	EA		Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	161.15	46.03
28 46 13 31-0171	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	207.56	46.03
28 46 13 31-0172	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	222.26	46.03
28 46 13 31-0173			Harsh Environment Signals (28 46 13 31-0135)		
28 46 13 31-0174	EA		Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T)	143.07	46.03
28 46 13 31-0175	EA		15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	201.03	46.03
28 46 13 31-0176	EA		110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	201.03	46.03
28 46 13 31-0177	EA		15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	183.80	46.03
28 46 13 31-0178	EA		15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	172.34	46.03
28 46 13 31-0179	EA		30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	183.80	46.03
28 46 13 31-0180	EA		60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	183.80	46.03
28 46 13 31-0181	EA		110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	183.80	46.03
28 46 13 31-0182	EA		15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	203.20	52.17
28 46 13 31-0183	EA		110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	203.20	52.17
28 46 13 31-0184	EA		15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	150.06	46.03
28 46 13 31-0185	EA		30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	195.54	46.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0186 Fire Alarm Bells <small>(28 46 13 31-0135)</small>		
28 46 13 31-0187 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	217.12	46.03
28 46 13 31-0188 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	173.82	46.03
28 46 13 31-0189 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	192.30	46.03
28 46 13 31-0190 Multiple Tone Signal <small>(28 46 13 31-0135)</small>		
28 46 13 31-0191 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,391.09	1,345.07
28 46 13 31-0192 Multi-Purpose Loudspeaker <small>(28 46 13 31-0135)</small>		
28 46 13 31-0193 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	286.17	46.03
28 46 13 31-0194 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	286.17	46.03
28 46 13 31-0195 Bell/Strobe Plate <small>(28 46 13 31-0135)</small>		
28 46 13 31-0196 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	144.77	24.55
28 46 13 31-0197 Mounting Accessories <small>(28 46 13 31-0135)</small>		
28 46 13 31-0198 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	68.19	24.55
28 46 13 31-0199 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	68.19	24.55
28 46 13 31-0200 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	68.19	24.55
28 46 13 31-0201 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	68.19	24.55
28 46 13 31-0202 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	68.19	24.55
28 46 13 31-0203 Firefighters' Telephones <small>(28 46 13 31-0135)</small>		
28 46 13 31-0204 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,246.11	76.72
28 46 13 31-0205 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	699.78	76.72
28 46 13 31-0206 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	503.03	76.72
28 46 13 31-0207 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	365.87	76.72
28 46 13 31-0208 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	675.29	76.72
28 46 13 31-0209 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	414.82	76.72
28 46 13 31-0210 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	761.99	76.72
28 46 13 31-0211 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	431.14	76.72
28 46 13 31-0212 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	873.02	76.72
28 46 13 31-0213 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	94.88	24.55
28 46 13 31-0214 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	109.09	24.55
28 46 13 31-0215 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	153.56	
28 46 13 31-0216 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	153.56	
28 46 13 31-0217 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	231.82	30.68
28 46 13 31-0218 EA Frontplate - Flush Mount, Red Finish, Non-Break Glass Type With Two Keys (EST3 6831-2).....	288.36	30.68
28 46 13 31-0219 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	203.55	30.68
28 46 13 31-0220 EA Frontplate - Surface Mount, Red Finish, Non-Break Glass Type, With Two Keys (EST3 6831-4).....	195.24	30.68
28 46 13 31-0221 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	143.70	46.03
28 46 13 31-0222 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,286.80	61.37
28 46 13 31-0223 Mass Notification EC Appliances <small>(28 46 13 31-0135)</small>		
28 46 13 31-0224 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	169.06	46.03
28 46 13 31-0225 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	163.19	46.03
28 46 13 31-0226 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	169.06	46.03
28 46 13 31-0227 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	163.19	46.03
28 46 13 31-0228 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	25.43	9.20
28 46 13 31-0229 Hazardous Location Devices <small>(28 46 13 31-0002)</small>		
28 46 13 31-0230 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location <small>(28 46 13 31-0229)</small>		
28 46 13 31-0231 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	150.63	46.03
28 46 13 31-0232 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	150.63	46.03
28 46 13 31-0233 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	156.94	46.03
28 46 13 31-0234 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	156.94	46.03
28 46 13 31-0235 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	215.29	46.03
28 46 13 31-0236 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	215.29	46.03
28 46 13 31-0237 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	156.94	46.03
28 46 13 31-0238 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	156.94	46.03
28 46 13 31-0239 Hazardous Locations Fire Alarm Station <small>(28 46 13 31-0229)</small>		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0240 EA Hazardous Location Fire Alarm Station (EST3 XAL53)	1,320.18	76.72
28 46 13 31-0241 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE)	1,256.79	76.72
28 46 13 31-0242 Hazardous Location Strobes (28 46 13 31-0229)		
28 46 13 31-0243 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ)	1,962.66	46.03
28 46 13 31-0244 EA Wall Bracket Mounting Elbow (EST3 116EX-B)	366.25	15.35
28 46 13 31-0245 EA Ceiling / Wall Mounting Module (EST3 116EX-C)	479.17	18.41
28 46 13 31-0246 EA Pendant Mounting Module (EST3 116EX-P)	351.59	18.41
28 46 13 31-0247 Hazardous Location Bells (28 46 13 31-0229)		
28 46 13 31-0248 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	1,416.21	46.03
28 46 13 31-0249 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	1,452.91	46.03
28 46 13 31-0250 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	1,466.12	46.03
28 46 13 31-0251 Hazardous Location Horns (28 46 13 31-0229)		
28 46 13 31-0252 EA Hazardous Location Horns (EST3 888D-N5)	1,384.58	46.03
28 46 13 31-0253 EA Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW)	1,130.65	46.03
28 46 13 31-0254 Door Holders And Relays (28 46 13 31-0002)		
28 46 13 31-0255 Electromagnetic Door Holders (28 46 13 31-0254)		
28 46 13 31-0256 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5)	247.36	46.03
28 46 13 31-0257 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5)	321.01	46.03
28 46 13 31-0258 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5)	209.75	46.03
28 46 13 31-0259 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5)	209.75	46.03
28 46 13 31-0260 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5)	213.15	46.03
28 46 13 31-0261 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5)	216.39	46.03
28 46 13 31-0262 Control Relays, Multi-Voltage (28 46 13 31-0254)		
28 46 13 31-0263 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1)	50.01	9.20
28 46 13 31-0264 FireShield Plus (28 46 13 31-0002)		
28 46 13 31-0265 3 Zone System (28 46 13 31-0264)		
28 46 13 31-0266 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,338.07	368.23
28 46 13 31-0267 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	1,950.40	490.97
28 46 13 31-0268 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G)	1,338.07	368.23
28 46 13 31-0269 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	1,950.40	490.97
28 46 13 31-0270 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	94.14	15.35
28 46 13 31-0271 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	94.14	15.35
28 46 13 31-0272 5 Zone System (28 46 13 31-0264)		
28 46 13 31-0273 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,440.79	368.23
28 46 13 31-0274 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	2,047.24	490.97
28 46 13 31-0275 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	1,440.79	368.23
28 46 13 31-0276 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	2,047.24	490.97
28 46 13 31-0277 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	94.14	15.35
28 46 13 31-0278 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	94.14	15.35
28 46 13 31-0279 10 Zone System (28 46 13 31-0264)		
28 46 13 31-0280 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	2,082.46	490.97
28 46 13 31-0281 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,694.80	613.70
28 46 13 31-0282 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	2,038.44	490.97
28 46 13 31-0283 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	2,694.80	613.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0284 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	110.04	15.35
28 46 13 31-0285 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	201.11	30.68
28 46 13 31-0286 FireShield Plus Off Premise Communication Options (28 46 13 31-0264)		
28 46 13 31-0287 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	442.89	30.68
28 46 13 31-0288 FireShield Plus Remote LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0289 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	187.28	46.03
28 46 13 31-0290 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A)	187.28	46.03
28 46 13 31-0291 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA)	194.77	46.03
28 46 13 31-0292 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	37.50	9.20
28 46 13 31-0293 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	47.08	9.20
28 46 13 31-0294 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	70.09	9.20
28 46 13 31-0295 FireShield Plus Remote 10 Zone LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0296 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10)	590.96	46.03
28 46 13 31-0297 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C)	649.65	46.03
28 46 13 31-0298 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1)	208.11	30.68
28 46 13 31-0299 FireShield Plus Remote Relays And Interfaces (28 46 13 31-0264)		
28 46 13 31-0300 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24)	220.08	30.68
28 46 13 31-0301 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRM's In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11)	90.89	18.41
28 46 13 31-0302 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM)	351.91	30.68
28 46 13 31-0303 FireShield Plus Accessories (28 46 13 31-0264)		
28 46 13 31-0304 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1)	20.42	
28 46 13 31-0305 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7)	12.39	
28 46 13 31-0306 iO Series Fire Control Panels (28 46 13 31-0002)		
28 46 13 31-0307 Intelligent Analog Control Panels (28 46 13 31-0306)		
28 46 13 31-0308 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	4,004.39	613.70
28 46 13 31-0309 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	4,289.06	613.70
28 46 13 31-0310 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	3,196.47	490.97
28 46 13 31-0311 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	3,328.53	490.97
28 46 13 31-0312 Option Modules And Accessories For iO Series (28 46 13 31-0306)		
28 46 13 31-0313 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	385.53	46.03
28 46 13 31-0314 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	238.79	46.03
28 46 13 31-0315 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	238.79	46.03
28 46 13 31-0316 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	208.11	30.68
28 46 13 31-0317 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	430.62	24.55
28 46 13 31-0318 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	782.79	24.55
28 46 13 31-0319 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	92.31	15.35
28 46 13 31-0320 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	106.98	15.35
28 46 13 31-0321 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	1,443.38	61.37
28 46 13 31-0322 Remote Annunciators For iO Series (28 46 13 31-0306)		
28 46 13 31-0323 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	789.04	46.03
28 46 13 31-0324 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	825.74	46.03
28 46 13 31-0325 Remote Annunciator Accessories (28 46 13 31-0306)		
28 46 13 31-0326 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	89.38	15.35

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0327 EA 12 Expander Cable (Cable Only) (EST3 7120313-01).....	60.03	15.35
28 46 13 31-0328 EA 24 Expander Cable (Cable Only) (EST3 7120313-02).....	82.03	15.35
28 46 13 31-0329 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1).....	238.79	46.03
28 46 13 31-0330 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2).....	275.46	46.03
28 46 13 31-0331 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3).....	312.16	46.03
28 46 13 31-0332 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC).....	60.03	15.35
28 46 13 31-0333 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC).....	60.03	15.35
28 46 13 31-0334 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	124.15	15.35
28 46 13 31-0335 System Accessories (28 46 13 31-0306)		
28 46 13 31-0336 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	439.97	61.37
28 46 13 31-0337 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A).....	1,983.27	490.97
28 46 13 31-0338 Conventional Initiating Devices (28 46 13 31-0002)		
28 46 13 31-0339 Detectors, Heat, Double Pole (28 46 13 31-0338)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0340 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2).....	171.12	46.03
28 46 13 31-0341 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2).....	171.12	46.03
28 46 13 31-0342 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2).....	171.12	46.03
28 46 13 31-0343 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2).....	171.12	46.03
28 46 13 31-0344 Detectors, Rate Compensation Heat, Accessories (28 46 13 31-0338)		
28 46 13 31-0345 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P).....	105.09	46.03
28 46 13 31-0346 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11).....	288.97	24.55
28 46 13 31-0347 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27).....	89.97	30.68
28 46 13 31-0348 Detectors, Heat, Fire-Lite (28 46 13 31-0338)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0349 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135).....	159.84	46.03
28 46 13 31-0350 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194).....	159.84	46.03
28 46 13 31-0351 Audio Notification Systems (Standalone Voice Evacuation) (28 46 13 31-0002)		
28 46 13 31-0352 Audio Notification Panels (28 46 13 31-0351)		
28 46 13 31-0353 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG).....	5,585.52	613.70
28 46 13 31-0354 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR).....	5,585.52	613.70
28 46 13 31-0355 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG).....	4,162.17	613.70
28 46 13 31-0356 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR).....	4,162.17	613.70
28 46 13 31-0357 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG).....	4,866.51	613.70
28 46 13 31-0358 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR).....	4,866.51	613.70
28 46 13 31-0359 Audio Notification Expander Panels (28 46 13 31-0351)		
28 46 13 31-0360 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG).....	4,279.56	613.70
28 46 13 31-0361 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR).....	4,279.56	613.70
28 46 13 31-0362 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG).....	2,900.23	613.70
28 46 13 31-0363 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR).....	2,900.23	613.70
28 46 13 31-0364 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG).....	3,707.28	613.70
28 46 13 31-0365 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	3,707.28	613.70
28 46 13 31-0366 Audio Notification Output Accessories (28 46 13 31-0351)		
28 46 13 31-0367 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B).....	162.74	15.35
28 46 13 31-0368 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	721.69	30.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0369 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B).....	721.69	30.68
28 46 13 31-0370 EA Class A Converter (GE ANSZSC4A)	516.26	30.68
28 46 13 31-0371 Audio Notification Remote Microphone (28 46 13 31-0351)		
28 46 13 31-0372 EA Microphone (GE ANSMIKE)	193.43	30.68
28 46 13 31-0373 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	795.06	30.68
28 46 13 31-0374 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	795.06	30.68
28 46 13 31-0375 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	177.42	15.35
28 46 13 31-0376 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	96.70	15.35
28 46 13 31-0377 Audio Notification Accessories (28 46 13 31-0351)		
28 46 13 31-0378 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	325.50	30.68
28 46 13 31-0379 EA Class B Backup Amplifier Switching Module (GE ANSBKUP).....	325.50	30.68
28 46 13 31-0380 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	325.50	30.68
28 46 13 31-0381 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANRSI8)	721.69	30.68
28 46 13 31-0382 Audio Notification Modules, Without Cabinet And Transformer (28 46 13 31-0351)		
28 46 13 31-0383 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	2,631.95	61.37
Note: Excludes cabinet.		
28 46 13 31-0384 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	2,764.02	61.37
Note: Excludes cabinet.		
28 46 13 31-0385 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	3,820.52	61.37
Note: Excludes cabinet.		
28 46 13 31-0386 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)	1,443.38	61.37
Note: Excludes cabinet.		
28 46 13 31-0387 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	1,443.38	61.37
Note: Excludes cabinet.		
28 46 13 31-0388 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	2,631.95	61.37
28 46 13 31-0389 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	2,103.70	61.37
Note: Excludes cabinet.		
28 46 13 31-0390 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	2,235.76	61.37
Note: Excludes cabinet.		
28 46 13 31-0391 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	3,292.27	61.37
Note: Excludes cabinet.		
28 46 13 31-0392 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	162.74	15.35
28 46 13 31-0393 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	120.25	15.35
28 46 13 31-0394 Simplex Fire Alarm (28 46 13 31)		
28 46 13 31-0395 4100 Fire Alarm Control Panel (28 46 13 31-0394)		
28 46 13 31-0396 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	6,897.71	612.22
28 46 13 31-0397 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141)	7,535.00	612.22
28 46 13 31-0398 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	10,872.78	612.22
28 46 13 31-0399 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104).....	4,393.31	612.22
Note: Add-on module.		
28 46 13 31-0400 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105).....	3,421.42	612.22
Note: Add-on module.		
28 46 13 31-0401 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101)	2,213.38	153.05
Note: Add-on module.		
28 46 13 31-0402 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033)	463.10	30.61
Note: Add-on module.		
28 46 13 31-0403 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	1,332.75	30.61
Note: Add-on module.		
28 46 13 31-0404 4100U Backbox (28 46 13 31-0394)		
28 46 13 31-0405 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425).....	2,306.96	122.44
Note: 24" x 40" beige backbox.		
28 46 13 31-0406 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443).....	3,252.49	122.44
Note: 24" x 56" beige backbox.		
28 46 13 31-0407 DACT (Digital Alarm Communicator Transmitter) (28 46 13 31-0394)		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0408	EA		6 Zone Fire Control Communicator (Silent Knight SK-5104)	1,263.51	61.22
28 46 13 31-0409			4010 Fire Alarm Control Panel (28 46 13 31-0394)		
28 46 13 31-0410	EA		120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	6,507.05	612.22
28 46 13 31-0411	EA		240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	6,313.19	612.22
28 46 13 31-0412	EA		Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	237.19	30.61
28 46 13 31-0413	EA		Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	1,037.64	30.61
28 46 13 31-0414	EA		Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	1,427.52	30.61
28 46 13 31-0415	EA		120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	732.31	30.61
28 46 13 31-0416	EA		240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	792.66	30.61
28 46 13 31-0417	EA		Battery Meter Module Expansion Module (Simplex 4010-9820)	295.84	30.61
28 46 13 31-0418			Printer (28 46 13 31-0394)		
28 46 13 31-0419	EA		24 Pin Dot Matrix Printer (Simplex 4190-9013)	2,300.60	30.61
28 46 13 31-0420			NAC Panel / Power Booster (28 46 13 31-0394)		
28 46 13 31-0421	EA		120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201)	1,477.06	153.05
			Note: Power supply for horns and strobes.		
28 46 13 31-0422			Battery (28 46 13 31-0394)		
28 46 13 31-0423	EA		50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296)	928.87	30.61
			Note: Two required for 24 volt DC.		
28 46 13 31-0424	EA		33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276)	616.20	30.61
			Note: Two required for 24 volt DC.		
28 46 13 31-0425	EA		6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272)	220.17	30.61
			Note: Two required for 24 volt DC.		
28 46 13 31-0426			Interface Modules (28 46 13 31-0394)		
28 46 13 31-0427	EA		Supervised Individual Addressable Modules (Simplex 4090-9001)	177.20	30.61
			Note: Monitor modules for waterflow / tamper, etc.		
28 46 13 31-0428	EA		Relay Individual Addressable Modules (Simplex 4090-9002)	370.20	30.61
			Note: Control modules for gas shutdown, door holders, etc.		
28 46 13 31-0429	EA		Relay SPDT With LED MR-801/T (Simplex 2088-9032)	86.27	30.61
			Note: Interface relay for 120VAC		
28 46 13 31-0430	EA		SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	179.32	30.61
28 46 13 31-0431	EA		Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	79.64	15.31
28 46 13 31-0432	EA		Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	75.56	15.31
28 46 13 31-0433			Pull Stations (28 46 13 31-0394)		
28 46 13 31-0434	EA		Addressable Single Action Manual Pull Station (Simplex 4099-9001)	218.60	30.61
28 46 13 31-0435	EA		N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)	155.22	30.61
28 46 13 31-0436	EA		N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)	167.46	30.61
28 46 13 31-0437	EA		Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)	149.70	30.61
28 46 13 31-0438	EA		N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104)	175.65	30.61
28 46 13 31-0439	EA		N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105)	268.89	30.61
28 46 13 31-0440	EA		Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107)	224.68	30.61
28 46 13 31-0441	EA		Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)	265.54	30.61
28 46 13 31-0442	EA		Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)	121.16	30.61
28 46 13 31-0443	EA		Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)	128.64	30.61
28 46 13 31-0444	EA		Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)	152.72	30.61
28 46 13 31-0445	EA		N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)	240.25	30.61
28 46 13 31-0446	EA		Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)	419.27	30.61
28 46 13 31-0447	EA		Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)	134.78	30.61
28 46 13 31-0448	EA		Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)	83.74	15.31
28 46 13 31-0449			Weatherproof Pull Stations (28 46 13 31-0394)		
28 46 13 31-0450	EA		Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)	212.43	36.73
28 46 13 31-0451	EA		Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)	138.03	15.31
28 46 13 31-0452			Heat / Smoke Sensor (28 46 13 31-0394)		
28 46 13 31-0453	EA		32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	212.21	45.92
28 46 13 31-0454	EA		Photoelectric Smoke Sensor (Simplex 4098-9714)	312.52	45.92
28 46 13 31-0455	EA		Sensor Base With Relay Driver (Simplex 4098-9791)	621.04	15.31
28 46 13 31-0456	EA		Standard Sensor Base (Simplex 4098-9792)	314.38	15.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0457 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)..... Note: Relay for 4098-9791	177.95	30.61
28 46 13 31-0458 Explosion Proof Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0459 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	225.04	45.92
28 46 13 31-0460 EA Explosion Proof Backbox (Killark JLX-21)	149.14	15.31
28 46 13 31-0461 EA Explosion Proof Backbox Plugs (Killark CUP-2)	13.36	3.06
28 46 13 31-0462 Weatherproof Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0463 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	160.58	45.92
28 46 13 31-0464 200 Degree F Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0465 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)..... Note: Used in kiln rooms and kitchens.	131.77	45.92
28 46 13 31-0466 Duct Smoke Sensor <small>(28 46 13 31-0394)</small>		
28 46 13 31-0467 EA Duct Sensor Housing (Simplex 4098-9755).....	500.21	24.49
28 46 13 31-0468 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)	671.04	55.10
Note: Relay output for AHU shutdown.		
28 46 13 31-0469 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798)	73.24	15.31
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 13 31-0470 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	172.74	45.92
28 46 13 31-0471 Interior Horn <small>(28 46 13 31-0394)</small>		
28 46 13 31-0472 EA Red With White FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	159.34	45.92
28 46 13 31-0473 EA White With Red FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	159.34	45.92
28 46 13 31-0474 Interior Horn Strobe <small>(28 46 13 31-0394)</small>		
28 46 13 31-0475 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	223.08	45.92
28 46 13 31-0476 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	223.08	45.92
28 46 13 31-0477 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127)	208.54	45.92
28 46 13 31-0478 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128)	208.54	45.92
28 46 13 31-0479 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129)	208.54	45.92
28 46 13 31-0480 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130)	208.54	45.92
28 46 13 31-0481 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	213.41	45.92
28 46 13 31-0482 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	213.41	45.92
28 46 13 31-0483 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139)	221.99	45.92
28 46 13 31-0484 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140)	218.03	45.92
28 46 13 31-0485 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141)	221.99	45.92
28 46 13 31-0486 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142)	218.03	45.92
28 46 13 31-0487 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	208.54	45.92
28 46 13 31-0488 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	208.54	45.92
28 46 13 31-0489 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	208.54	45.92
28 46 13 31-0490 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	208.54	45.92
28 46 13 31-0491 Interior Strobe <small>(28 46 13 31-0394)</small>		
28 46 13 31-0492 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	177.64	45.92
28 46 13 31-0493 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	177.64	45.92
28 46 13 31-0494 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103)	177.58	45.92
28 46 13 31-0495 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	177.64	45.92
28 46 13 31-0496 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105)	196.12	45.92
28 46 13 31-0497 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106)	196.12	45.92
28 46 13 31-0498 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109)	197.30	45.92

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0499	EA		Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	200.52	45.92
28 46 13 31-0500	EA		Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	200.52	45.92
28 46 13 31-0501	EA		Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	200.52	45.92
28 46 13 31-0502	EA		Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	177.64	45.92
28 46 13 31-0503	EA		Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	177.64	45.92
28 46 13 31-0504	EA		Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	177.64	45.92
28 46 13 31-0505	EA		Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	177.64	45.92
28 46 13 31-0506			Interior Speakers (28 46 13 31-0394)		
28 46 13 31-0507	EA		Red With White FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	143.69	45.92
28 46 13 31-0508	EA		White With Red FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	143.69	45.92
28 46 13 31-0509	EA		Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	143.69	45.92
28 46 13 31-0510			Interior Speaker Strobe (28 46 13 31-0394)		
28 46 13 31-0511	EA		Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	237.48	45.92
28 46 13 31-0512	EA		White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	237.48	45.92
28 46 13 31-0513			Surge Suppressors (28 46 13 31-0394)		
28 46 13 31-0514	EA		Overvoltage Suppressor (Simplex 2081-9044).....	155.94	9.18
28 46 13 31-0515	EA		Isolated Loop Circuit Protector (Simplex 2081-9028).....	99.33	9.18
28 46 13 31-0516	EA		120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	335.32	9.18
28 46 13 31-0517	EA		24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B).....	113.91	9.18
28 46 13 31-0518	EA		Mounting Base For Two DTK-2MHL (Ditek DTK-2MB).....	171.48	15.31
28 46 13 31-0519	EA		120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	116.81	9.18
28 46 13 31-0520	EA		<105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	87.63	9.18
28 46 13 31-0521			Boxes And Adapters (28 46 13 31-0394)		
28 46 13 31-0522	EA		Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	75.56	15.31
28 46 13 31-0523	EA		Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	71.47	15.31
28 46 13 31-0524	EA		Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	63.46	15.31
28 46 13 31-0525	EA		White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	52.09	15.31
28 46 13 31-0526			Accessories (28 46 13 31-0394)		
28 46 13 31-0527	EA		End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	35.36	15.31
28 46 13 31-0528			Siemens Fire Alarm (28 46 13 31)		
28 46 13 31-0529			Conventional Control Panels (28 46 13 31-0528)		
28 46 13 31-0530			SXL Batteries And Power Supplies (28 46 13 31-0529)		
28 46 13 31-0531	EA		6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	1,319.82	61.22
28 46 13 31-0532	EA		Main Board Only For PAD-3 (Siemens PAD-3-MB).....	1,061.56	61.22
28 46 13 31-0533			Digital Fire Communicators (28 46 13 31-0529)		
28 46 13 31-0534	EA		Four Channel Digital Slave Fire Communicator (Siemens 5129).....	1,027.52	61.22
28 46 13 31-0535			Addressable Control Panels (28 46 13 31-0528)		
28 46 13 31-0536			Fireseeker Equipment (28 46 13 31-0535)		
28 46 13 31-0537			FS-250 System Panels (28 46 13 31-0536)		
28 46 13 31-0538	EA		FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	3,121.47	612.22
			Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 13 31-0539	EA		FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	3,910.33	612.22
			Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0540	EA		FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,317.81	489.78
			Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0541	EA		Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	3,126.17	612.22



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		28 46 13 31-0542 FS-250 Optional Modules <small>(28 46 13 31-0536)</small>		
	EA	28 46 13 31-0543 Main Board Module (Siemens FS-MB2)	1,329.21	61.22
	EA	28 46 13 31-0544 Display Board Module (Siemens FS-DB2)	1,037.90	30.61
	EA	28 46 13 31-0545 Device Loop Card (Siemens FS-DLC)	850.08	30.61
	EA	28 46 13 31-0546 Releasing Module (Siemens FS-REL)	375.83	30.61
	EA	28 46 13 31-0547 Remote LCD Annunciator (Siemens FS-RD2)	844.21	30.61
	EA	28 46 13 31-0548 Relay Processor Card (Siemens FS-RU2)	732.69	30.61
	EA	28 46 13 31-0549 Relay Expander Board (Siemens FS-RE8)	624.69	30.61
	EA	28 46 13 31-0550 Serial Annunciator Processor Card (Siemens FS-SAU2)	844.21	30.61
	EA	28 46 13 31-0551 16 Output Annunciator Extender (Siemens FS-SAE16)	657.56	30.61
	EA	28 46 13 31-0552 Digital Alarm Communication Transmitter (Siemens FS-DACT)	597.69	30.61
	EA	28 46 13 31-0553 Municipal Tie Module (Siemens FS-MT)	507.30	30.61
	EA	28 46 13 31-0554 Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2)	459.35	
	EA	28 46 13 31-0555 Programming Cable Kit (Siemens CBL-UD)	121.00	15.31
	EA	28 46 13 31-0556 Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE)	217.35	30.61
	EA	28 46 13 31-0557 Releasing Power Transformer (Siemens FS-RPT-A)	220.87	30.61
	EA	28 46 13 31-0558 Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB)	250.89	24.49
	EA	28 46 13 31-0559 Cabinet Trim Kit (Siemens RD-CAB-TK)	410.95	15.31
		28 46 13 31-0560 Firefinder Systems <small>(28 46 13 31-0535)</small>		
		28 46 13 31-0561 XLS Basic Fire System Packages Without Backbox <small>(28 46 13 31-0560)</small>		
	EA	28 46 13 31-0562 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP)	11,080.59	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
	EA	28 46 13 31-0563 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP)	9,739.99	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
	EA	28 46 13 31-0564 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP)	9,739.99	612.22
		Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
	EA	28 46 13 31-0565 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD)	16,403.05	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
	EA	28 46 13 31-0566 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD)	16,959.48	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
	EA	28 46 13 31-0567 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP)	9,604.99	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
	EA	28 46 13 31-0568 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP)	9,604.99	612.22
		Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
	EA	28 46 13 31-0569 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP)	11,173.32	612.22
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
		28 46 13 31-0570 Firefinder - XLS Basic System Equipment <small>(28 46 13 31-0560)</small>		
	EA	28 46 13 31-0571 Person Machine Interface With Central Processor (Siemens PMI)	5,137.06	612.22
		Note: Includes inner door.		
	EA	28 46 13 31-0572 Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC)	8,601.24	612.22
		Note: Includes inner door.		
	EA	28 46 13 31-0573 Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT)	5,137.06	612.22
		Note: Includes inner door.		
	EA	28 46 13 31-0574 Two Slot Card Cage (Siemens CC-2)	643.47	30.61
	EA	28 46 13 31-0575 Five Slot Card Cage (Siemens CC-5)	1,090.73	30.61
	EA	28 46 13 31-0576 Four Circuit Zone Indicating Card (Siemens ZIC-4A)	1,560.29	30.61
	EA	28 46 13 31-0577 Eight Circuit Zone Indicating Card (Siemens ZIC-8B)	1,629.55	30.61
	EA	28 46 13 31-0578 Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C)	512.00	30.61
	EA	28 46 13 31-0579 Device Loop Card (Siemens DLC)	1,850.24	30.61
		Note: Interfaces with up to 252 detectors and devices.		
	EA	28 46 13 31-0580 Controllable Relay Card (Siemens CRC-6)	1,046.12	30.61
		Note: Provides six programmable relays.		
	EA	28 46 13 31-0581 12 Amperes Power Supply Charger Module (Siemens PSC-12)	3,973.83	30.61
	EA	28 46 13 31-0582 Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI)	6,703.04	612.22
		Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0583	EA		Network Interface Card (Siemens NIC-C)..... Note: Provides HNET Or XNET communication between enclosures.	1,224.55	30.61
28 46 13 31-0584	EA		12 Amperes Power Supply Extender (Siemens PSX-12)..... Note: Extends PSC-12 with an additional 24 volt DC.	3,304.71	30.61
28 46 13 31-0585	EA		Power Termination Board (Siemens PTB)..... Note: Used with systems requiring more than one PSX-12.	554.26	30.61
28 46 13 31-0586	EA		Conventional Detector Card (Siemens CDC-4)	1,179.95	30.61
28 46 13 31-0587	EA		Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,315.11	30.61
28 46 13 31-0588	EA		Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS)	8,334.87	30.61
28 46 13 31-0589			Remote Lobby Enclosure (28 46 13 31-0560)		
28 46 13 31-0590	EA		14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2)..... Note: Flush mounted. Includes clear lens plate on cover.	1,520.92	122.44
28 46 13 31-0591	EA		24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4)..... Note: Flush mounted. Includes clear lens plate on cover.	1,967.00	122.44
28 46 13 31-0592	EA		Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP)	240.83	30.61
28 46 13 31-0593	EA		Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP)	263.13	30.61
			Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 13 31-0594			Battery Enclosures (28 46 13 31-0560)		
28 46 13 31-0595	EA		Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT)	938.66	122.44
28 46 13 31-0596			Graphic Annunciator Output Drivers And Inputs (28 46 13 31-0560)		
28 46 13 31-0597	EA		Output Control Module (Siemens OCM-16)	754.99	30.61
28 46 13 31-0598	EA		Supervised Input Module (Siemens SIM-16)	754.99	30.61
28 46 13 31-0599			Remote LCD Displays (28 46 13 31-0560)		
28 46 13 31-0600	EA		Remote LED/LCD System Status Display (Siemens SSD)..... Note: No control or menu capability.	1,748.47	91.83
28 46 13 31-0601	EA		Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C)	1,972.68	91.83
28 46 13 31-0602			Voice Equipment (28 46 13 31-0560)		
28 46 13 31-0603	EA		40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,742.24	30.61
28 46 13 31-0604	EA		180 Watts Zone Amplifier Module (Siemens ZAM-180).....	3,863.48	30.61
28 46 13 31-0605	EA		Live Voice Module (Siemens LVM)	1,626.03	30.61
			Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 13 31-0606			MXL Series Equipment (28 46 13 31-0535)		
28 46 13 31-0607			MXL Optional Equipment (28 46 13 31-0606)		
28 46 13 31-0608	EA		Two Circuit Analog Loop Driver (Siemens ALD-2I).....	1,873.90	61.22
28 46 13 31-0609	EA		CXL/MXL Interface Module (Siemens CMI-300).....	4,850.73	30.61
28 46 13 31-0610	EA		Four Relay Programmable Relay Module (Siemens CRM-4)	831.30	30.61
28 46 13 31-0611	EA		Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	1,003.86	30.61
28 46 13 31-0612	EA		Remote Conventional Zone Module (Siemens CZM-1B6)	377.00	30.61
28 46 13 31-0613	EA		Short Circuit Line Isolator Module (Siemens Model LIM-1).....	232.61	30.61
28 46 13 31-0614	EA		Four Circuit Conventional Zone Module (Siemens CZM-4).....	978.86	30.61
28 46 13 31-0615	EA		12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	350.09	45.92
28 46 13 31-0616	EA		Lexan Window For RCC (Siemens GENBOX-WD)	237.98	24.49
28 46 13 31-0617	EA		Input Driver Module (Siemens MID-16).....	639.95	30.61
28 46 13 31-0618	EA		Programmable Output Driver Module (Siemens MOD-16).....	639.95	30.61
28 46 13 31-0619	EA		MXL Output/Input Module (Siemens MOI-7).....	1,024.99	30.61
28 46 13 31-0620	EA		Two Slot Network Option Module Card Cage (Siemens MOM-2)	544.87	30.61
28 46 13 31-0621	EA		Four Slot Network Option Module Card Cage (Siemens MOM-4)	858.30	30.61
28 46 13 31-0622	EA		12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220).....	2,110.03	91.83
28 46 13 31-0623	EA		12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240).....	2,110.03	91.83
28 46 13 31-0624	EA		Network Interface Module (Siemens NIM-1W).....	1,529.77	30.61
28 46 13 31-0625	EA		U.L. Listed Parallel Printer (Siemens PAL-1).....	4,001.37	122.44
28 46 13 31-0626	EA		Peripheral Interface Module, Model PIM-1 (Siemens 500-691324)	447.43	30.61
28 46 13 31-0627	EA		Surface Mounted Remote Command Center (Siemens RCC-1).....	4,352.89	612.22
28 46 13 31-0628	EA		Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL)	536.83	61.22
28 46 13 31-0629	EA		Flush Mounted Remote Command Center (Siemens RCC-1F)	4,352.89	612.22
28 46 13 31-0630	EA		Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL)	550.91	61.22
28 46 13 31-0631	EA		Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,337.47	612.22
28 46 13 31-0632	EA		MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	5,014.97	612.22
28 46 13 31-0633	EA		RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	83.44	15.31
28 46 13 31-0634	EA		Remote Diagnostics Module For MXL (Siemens RDM-MXL)	6,226.72	61.22
28 46 13 31-0635	EA		Remote Diagnostics Module For PC (Siemens RDM-PC)	13,266.60	61.22
28 46 13 31-0636	EA		Releasing End Of Line Module (Siemens REL-EOL).....	189.18	30.61
28 46 13 31-0637	EA		36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC)	3,969.31	61.22
28 46 13 31-0638	EA		36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	3,789.70	61.22
28 46 13 31-0639	EA		8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1)	2,006.91	122.44



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0640				Complete MXL And MXLV System Packages Without Enclosure <small>(28 46 13 31-0606)</small>		
28 46 13 31-0641	EA			MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP).....	14,479.03	612.22
				Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
28 46 13 31-0642	EA			MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP).....	18,878.80	612.22
				Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
28 46 13 31-0643	EA			MXLV Demonstration Panel (Siemens MXLV DEMO).....	39,426.75	612.22
28 46 13 31-0644				MXL Basic System <small>(28 46 13 31-0606)</small>		
28 46 13 31-0645	EA			MXL/MXLV Main Control Board (Siemens MMB-3).....	8,942.91	612.22
28 46 13 31-0646	EA			MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL).....	11,571.28	612.22
				Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
28 46 13 31-0647	EA			MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	3,347.14	61.22
28 46 13 31-0648	EA			MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	4,194.70	61.22
28 46 13 31-0649	EA			6 Amperes Power Supply For MXL (Siemens MPS-6).....	1,451.47	91.83
28 46 13 31-0650	EA			220/240 Volt AC Adapter Cable (Siemens CIA-12).....	106.91	15.31
28 46 13 31-0651				MXL/MXLV System Expansion Accessories <small>(28 46 13 31-0606)</small>		
28 46 13 31-0652	EA			MXL Remote Power Supply Module (Siemens PSR-1).....	1,783.69	91.83
28 46 13 31-0653	EA			Style 4 Communication Module (Siemens NET-4).....	365.26	30.61
28 46 13 31-0654	EA			Style 7 Communication Module (Siemens NET-7).....	666.95	30.61
28 46 13 31-0655	EA			MXL/MXLV-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	399.30	30.61
28 46 13 31-0656				Peripheral Devices <small>(28 46 13 31-0535)</small>		
28 46 13 31-0657				Thermal Detectors <small>(28 46 13 31-0656)</small>		
28 46 13 31-0658	EA			Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	149.35	45.92
28 46 13 31-0659	EA			Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	149.35	45.92
28 46 13 31-0660	EA			135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	149.35	45.92
28 46 13 31-0661	EA			200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	149.35	45.92
28 46 13 31-0662	EA			Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	237.39	45.92
28 46 13 31-0663	EA			Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	237.39	45.92
28 46 13 31-0664	EA			Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	593.09	45.92
28 46 13 31-0665				Beam Smoke Detector <small>(28 46 13 31-0656)</small>		
28 46 13 31-0666	EA			Linear Beam Smoke Detector (Siemens PBA-1191).....	2,820.41	45.92
28 46 13 31-0667	EA			Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	321.74	15.31
28 46 13 31-0668	EA			20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	325.26	15.31
28 46 13 31-0669	EA			10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	165.61	15.31
28 46 13 31-0670				Bases For Detectors <small>(28 46 13 31-0656)</small>		
28 46 13 31-0671	EA			Detector Base (Siemens DB-11).....	48.22	15.31
28 46 13 31-0672	EA			Universal Base (Siemens DB-3S).....	44.70	15.31
28 46 13 31-0673				Manual Stations <small>(28 46 13 31-0656)</small>		
28 46 13 31-0674	EA			Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	354.03	36.73
28 46 13 31-0675				Addressable Devices <small>(28 46 13 31-0535)</small>		
28 46 13 31-0676				Intelligent Detectors And Devices For Firefinder XLS And FS-250 <small>(28 46 13 31-0675)</small>		
28 46 13 31-0677	EA			Addressable Fireprint Fire Detector (Siemens HFP-11).....	293.74	45.92
28 46 13 31-0678	EA			Addressable Thermal Fire Detector (Siemens HFPT-11).....	252.65	45.92
28 46 13 31-0679	EA			Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	204.52	45.92
28 46 13 31-0680	EA			Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	135.26	45.92
28 46 13 31-0681	EA			Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	135.26	45.92
28 46 13 31-0682	EA			Addressable Single Action Manual Pull Station (Siemens HMS-S).....	308.91	30.61
28 46 13 31-0683	EA			Addressable Double Action Manual Pull Station (Siemens HMS-D).....	294.83	30.61
28 46 13 31-0684	EA			Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	232.61	30.61
28 46 13 31-0685	EA			Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	285.43	30.61
28 46 13 31-0686	EA			Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	285.43	30.61
28 46 13 31-0687	EA			Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	215.00	30.61
28 46 13 31-0688	EA			Line Isolator Module (Siemens HLIM).....	222.04	30.61

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0689	EA		Remote Convention Zone Module (Siemens HZM)	330.04	30.61
28 46 13 31-0690	EA		Intelligent Control Point Module (Siemens HCP)	419.26	30.61
28 46 13 31-0691	EA		Handheld Programming And Testing Unit (Siemens DPU).....	1,861.89	
28 46 13 31-0692	EA		DPU Carrying Case (Siemens DPU-C1).....	286.02	
28 46 13 31-0693	EA		Label Printer And Carrying Case (Siemens DPU-PRT).....	3,188.49	30.61
28 46 13 31-0694			Air Duct Housings And Detectors (28 46 13 31-0675)		
28 46 13 31-0695	EA		Air-Duct Housing (Siemens AD2-P).....	338.93	24.49
28 46 13 31-0696	EA		Air-Duct Housing With Relay (Siemens AD2-XHR).....	383.54	24.49
28 46 13 31-0697	EA		Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	306.57	30.61
28 46 13 31-0698	EA		6" To 1' Duct Sampling Tube (Siemens ST-10)	41.85	9.18
28 46 13 31-0699	EA		>1' To 3' Duct Sampling Tube (Siemens ST-25).....	51.49	12.24
28 46 13 31-0700	EA		>3' To 5' Duct Sampling Tube (Siemens ST-50).....	64.65	15.31
28 46 13 31-0701	EA		>5' To 10' Duct Sampling Tube (Siemens ST-100).....	75.47	18.37
28 46 13 31-0702			Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0675)		
28 46 13 31-0703	EA		Addressable Fireprint Fire Detector (Siemens FP-11).....	306.65	45.92
28 46 13 31-0704	EA		Addressable Thermal Fire Detector (Siemens FPT-11).....	263.22	45.92
28 46 13 31-0705	EA		Intelligent Ionization Smoke Detector (Siemens ILI-1)	339.52	45.92
28 46 13 31-0706	EA		Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	300.70	30.61
28 46 13 31-0707	EA		Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	332.39	30.61
28 46 13 31-0708	EA		Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	304.22	30.61
28 46 13 31-0709	EA		Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	337.09	30.61
28 46 13 31-0710	EA		Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	337.09	30.61
28 46 13 31-0711			Detector Universal Bases (28 46 13 31-0675)		
28 46 13 31-0712	EA		Detector Base With Relay (Siemens DB-X11RS).....	142.13	15.31
28 46 13 31-0713	EA		PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	71.70	15.31
28 46 13 31-0714	EA		Locking Kit (Siemens LK-11)	13.18	
28 46 13 31-0715	EA		Detector Base With Relay (Siemens DB-X3RS).....	142.13	15.31
28 46 13 31-0716	EA		Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	165.61	15.31
28 46 13 31-0717	EA		Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	68.17	15.31
28 46 13 31-0718	EA		Flush Trim Ring For Bases (Siemens RA-ADB)	32.46	9.18
28 46 13 31-0719	EA		Seal For DB-11 (Siemens DB11-SEAL).....	16.01	
28 46 13 31-0720	EA		Gasket For DB-11 (Siemens DB-SEAL)	17.56	
28 46 13 31-0721	EA		Detector Guard Housing (Siemens DGH-11).....	209.04	15.31
28 46 13 31-0722	EA		Small Detector Base (Siemens DB-11E)	52.91	15.31
28 46 13 31-0723	EA		Audible Base For Series 3 (Siemens ADBI-60A).....	186.74	15.31
28 46 13 31-0724	EA		Base Plug (Siemens DB-11-DP).....	13.13	
28 46 13 31-0725			Air Duct Smoke Detectors (28 46 13 31-0675)		
28 46 13 31-0726	EA		Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	156.31	30.61
28 46 13 31-0727	EA		Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	820.73	30.61
28 46 13 31-0728			Notification Devices (28 46 13 31-0535)		
28 46 13 31-0729			Synchronization Control Devices (28 46 13 31-0728)		
28 46 13 31-0730	EA		Dual Synchronization Control Module (Siemens DSC).....	232.61	30.61
28 46 13 31-0731			Stand Alone Strobes (28 46 13 31-0728)		
28 46 13 31-0732	EA		Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	191.61	45.92
28 46 13 31-0733	EA		Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	209.22	45.92
28 46 13 31-0734	EA		Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	191.61	45.92
28 46 13 31-0735	EA		Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	209.22	45.92
28 46 13 31-0736	EA		Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	209.22	45.92
28 46 13 31-0737	EA		Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	191.61	45.92
28 46 13 31-0738	EA		Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	222.13	45.92
28 46 13 31-0739	EA		Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	212.74	45.92
28 46 13 31-0740	EA		Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	212.74	45.92
28 46 13 31-0741	EA		Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	228.00	45.92
28 46 13 31-0742	EA		Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	228.00	45.92
28 46 13 31-0743			Horns And Strobes (28 46 13 31-0728)		
28 46 13 31-0744	EA		Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	260.87	45.92
28 46 13 31-0745	EA		Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	276.13	45.92
28 46 13 31-0746	EA		Wall Mounted Horn (Siemens SE-R)	149.35	45.92
28 46 13 31-0747	EA		Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	260.87	45.92
28 46 13 31-0748	EA		Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	276.13	45.92
28 46 13 31-0749	EA		Ceiling Mounted Horn (Siemens SEC-R).....	156.39	45.92
28 46 13 31-0750	EA		Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	260.87	45.92
28 46 13 31-0751	EA		Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	276.13	45.92
28 46 13 31-0752	EA		Wall Mounted Low Profile Horn (Siemens SEF-R)	149.35	45.92
28 46 13 31-0753	EA		Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	260.87	45.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0754 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	276.13	45.92
28 46 13 31-0755 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	156.39	45.92
28 46 13 31-0756 EA Mini Horn (Siemens MH-R).....	123.53	45.92
28 46 13 31-0757 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	158.74	45.92
28 46 13 31-0758 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	245.61	45.92
28 46 13 31-0759 EA Industrial Tri-Tone Horn (Siemens ASR).....	708.13	45.92
28 46 13 31-0760 EA Wall Mounted Horn (Siemens HS-R).....	158.74	45.92
28 46 13 31-0761 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	246.78	45.92
28 46 13 31-0762 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	265.57	45.92
28 46 13 31-0763 EA 6" Motor Bell (Siemens MBDC-6).....	182.22	45.92
28 46 13 31-0764 EA 10" Motor Bell (Siemens MBDC-10).....	199.83	45.92
28 46 13 31-0765 Mounting Accessories (28 46 13 31-0728)		
28 46 13 31-0766 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	44.70	15.31
28 46 13 31-0767 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	44.70	15.31
28 46 13 31-0768 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	45.87	15.31
28 46 13 31-0769 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	74.04	15.31
28 46 13 31-0770 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	58.78	15.31
28 46 13 31-0771 EA Surface Mounted Speaker Backbox (Siemens SBBS-R).....	62.31	15.31
28 46 13 31-0772 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R).....	67.00	15.31
28 46 13 31-0773 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	52.91	15.31
28 46 13 31-0774 EA Semi-Flush Plate (Siemens SFPS-R).....	43.52	15.31
28 46 13 31-0775 EA Square Surface Backbox (Siemens SHBBS-R).....	52.91	15.31
28 46 13 31-0776 EA Horn Adapter Plate (Siemens SHMPS-R).....	50.57	15.31
28 46 13 31-0777 EA Ceiling Speaker Extension Ring (Siemens SEXT-R).....	44.70	15.31
28 46 13 31-0778 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	58.78	15.31
28 46 13 31-0779 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	62.31	15.31
28 46 13 31-0780 EA Weatherproof Speaker Backbox (Siemens WBBS-R).....	59.96	15.31
28 46 13 31-0781 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	67.00	15.31
28 46 13 31-0782 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	67.00	15.31
28 46 13 31-0783 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	67.00	15.31
28 46 13 31-0784 EA Weatherproof Horn Backbox (Siemens WPBBS-R).....	62.31	15.31
28 46 13 31-0785 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	62.31	15.31
28 46 13 31-0786 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	44.70	15.31
28 46 13 31-0787 EA Z Series Backbox (Siemens ZBB-R).....	50.57	15.31
28 46 13 31-0788 Door Holders (28 46 13 31-0728)		
28 46 13 31-0789 EA 120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	394.70	45.92
28 46 13 31-0790 EA 24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	394.70	45.92
28 46 13 31-0791 Voice Equipment (28 46 13 31-0535)		
28 46 13 31-0792 Voicecom (28 46 13 31-0791)		
28 46 13 31-0793 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	6,055.05	612.22
28 46 13 31-0794 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	9,635.44	612.22
28 46 13 31-0795 Johnson Controls Fire Alarm (28 46 13 31)		
28 46 13 31-0796 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	228.67	45.92
28 46 13 31-0797 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	226.12	45.92
28 46 13 31-0798 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	284.41	45.92
28 46 13 31-0799 EA Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	283.60	45.92
28 46 13 31-0800 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	791.54	61.22
28 46 13 31-0801 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	215.67	45.92
28 46 13 31-0802 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	191.55	45.92
28 46 13 31-0803 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	186.44	45.92
28 46 13 31-0804 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	579.52	45.92
28 46 13 31-0805 EA 100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	2,842.51	91.83
28 46 13 31-0806 EA AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,753.60	91.83
28 46 13 31-0807 EA 120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120).....	2,801.57	91.83
28 46 13 31-0808 EA AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E).....	2,681.80	91.83
28 46 13 31-0809 EA 30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,298.16	91.83
28 46 13 31-0810 EA AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,298.16	91.83
28 46 13 31-0811 EA Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,310.30	30.61
28 46 13 31-0812 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,363.09	30.61



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-0813	EA	Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	999.83	30.61
28 46	13 31-0814	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	999.83	30.61
28 46	13 31-0815	EA	Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	703.72	30.61
28 46	13 31-0816	EA	Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	2,276.01	61.22
28 46	13 31-0817	EA	Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	999.83	30.61
28 46	13 31-0818	EA	Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	1,039.51	30.61
28 46	13 31-0819	EA	Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	895.71	30.61
28 46	13 31-0820	EA	Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	895.71	30.61
28 46	13 31-0821	EA	Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX).....	146.63	27.55
28 46	13 31-0822	EA	Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	1,367.94	61.22
28 46	13 31-0823	EA	Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	2,993.87	61.22
28 46	13 31-0824	EA	Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	1,367.94	61.22
28 46	13 31-0825	EA	Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	2,993.87	61.22
28 46	13 31-0826	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	52.14	15.31
28 46	13 31-0827	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	144.77	15.31
28 46	13 31-0828	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	136.39	15.31
28 46	13 31-0829	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	55.72	15.31
28 46	13 31-0830	EA	Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	49.78	15.31
28 46	13 31-0831	EA	Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	994.72	61.22
28 46	13 31-0832	EA	Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	2,337.23	91.83
28 46	13 31-0833	EA	Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	2,471.84	91.83
28 46	13 31-0834	EA	Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	272.89	15.31
28 46	13 31-0835	EA	Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	183.17	15.31
28 46	13 31-0836	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025).....	2,339.21	91.83
28 46	13 31-0837	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	2,157.76	91.83
28 46	13 31-0838	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	2,157.76	91.83
28 46	13 31-0839	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	2,535.21	91.83
28 46	13 31-0840	EA	Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	2,337.23	91.83
28 46	13 31-0841	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	2,337.23	91.83
28 46	13 31-0842	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	2,337.23	91.83
28 46	13 31-0843	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	2,798.71	91.83
28 46	13 31-0844	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	2,798.71	91.83
28 46	13 31-0845	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	2,798.71	91.83
28 46	13 31-0846	EA	Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	287.47	30.61
28 46	13 31-0847	EA	Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	444.39	30.61
28 46	13 31-0848	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	38.79	12.24
28 46	13 31-0849	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	42.48	12.24
28 46	13 31-0850	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	105.76	18.37
28 46	13 31-0851	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	50.75	12.24
28 46	13 31-0852	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	62.63	15.31
28 46	13 31-0853	EA	Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	447.05	30.61
28 46	13 31-0854	EA	Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	741.61	61.22
28 46	13 31-0855	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	609.28	91.83
28 46	13 31-0856	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	850.96	91.83
28 46	13 31-0857	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	931.72	91.83
28 46	13 31-0858	EA	Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	498.80	12.24
28 46	13 31-0859	EA	Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	753.09	12.24
28 46	13 31-0860	EA	Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	827.88	12.24
28 46	13 31-0861	EA	6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	982.64	122.44
			Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46	13 31-0862	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	1,295.95	122.44
			Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46	13 31-0863	EA	80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	1,233.54	91.83
28 46	13 31-0864	EA	Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	228.03	15.31
28 46	13 31-0865	EA	Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	648.07	30.61
28 46	13 31-0866	EA	Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	337.53	45.92
28 46	13 31-0867	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	273.89	45.92
28 46	13 31-0868	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	288.37	45.92
28 46	13 31-0869	EA	Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	2,386.70	61.22
28 46	13 31-0870	EA	Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	2,917.84	61.22
28 46	13 31-0871	EA	Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	879.45	30.61
28 46	13 31-0872	EA	IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	5,936.90	489.78
			Note: Includes Door, Dress Panel And Back Box, Black		
28 46	13 31-0873	EA	Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	2,943.62	61.22



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46	13 31-0874	EA	Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI)	38,831.57	734.67
	28 46	13 31-0875	EA	Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F)	42,420.85	734.67
	28 46	13 31-0876	EA	Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	47,804.79	734.67
	28 46	13 31-0877	EA	Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	42,420.85	734.67
	28 46	13 31-0878	EA	Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B)	284.39	18.37
	28 46	13 31-0879	EA	Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	320.29	18.37
	28 46	13 31-0880	EA	Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	349.01	18.37
	28 46	13 31-0881	EA	Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	654.10	18.37
	28 46	13 31-0882	EA	Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB)	211.12	12.24
	28 46	13 31-0883	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	328.48	27.55
	28 46	13 31-0884	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	349.07	27.55
	28 46	13 31-0885	EA	Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D)	643.73	27.55
	28 46	13 31-0886	EA	Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	643.66	12.24
	28 46	13 31-0887	EA	Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4)	867.99	12.24
	28 46	13 31-0888	EA	Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4)	1,074.37	12.24
	28 46	13 31-0889	EA	Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	299.31	30.61
	28 46	13 31-0890	EA	Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	139.91	12.24
	28 46	13 31-0891	EA	JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D)	5,923.32	489.78
	28 46	13 31-0892	EA	Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	4,274.79	367.34
				Note: Includes CHS2-M2 Chassis		
	28 46	13 31-0893	EA	Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	7,705.05	489.78
	28 46	13 31-0894	EA	Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	7,410.89	367.34
	28 46	13 31-0895	EA	Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	5,329.47	367.34
	28 46	13 31-0896	EA	Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	2,933.30	45.92
	28 46	13 31-0897	EA	Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	2,963.26	45.92
	28 46	13 31-0898	EA	Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	2,963.26	45.92
	28 46	13 31-0899	EA	Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,506.27	61.22
	28 46	13 31-0900	EA	Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems. The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	2,970.54	61.22
				Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).		
	28 46	13 31-0901	EA	Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,529.32	367.34
	28 46	13 31-0902	EA	160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	2,108.43	61.22
	28 46	13 31-0903	EA	80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,733.28	61.22
	28 46	13 31-0904	EA	Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,793.57	61.22
	28 46	13 31-0905	EA	Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32)	865.10	15.31
	28 46	13 31-0906	EA	Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	277.51	12.24
	28 46	13 31-0907	EA	Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	342.13	12.24
	28 46	13 31-0908	EA	Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	696.44	15.31
	28 46	13 31-0909	EA	Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,279.69	15.31
	28 46	13 31-0910	EA	Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	2,320.16	15.31
	28 46	13 31-0911	EA	Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	180.26	15.31
	28 46	13 31-0912	EA	Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	288.30	15.31
	28 46	13 31-0913	EA	Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	141.12	15.31
	28 46	13 31-0914	EA	Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	198.75	15.31
	28 46	13 31-0915	EA	Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ)	156.25	15.31
	28 46	13 31-0916	EA	Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	255.93	15.31
	28 46	13 31-0917	EA	Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	292.12	15.31
	28 46	13 31-0918	EA	SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	163.96	15.31
	28 46	13 31-0919	EA	Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	2,446.40	45.92
	28 46	13 31-0920	EA	Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	2,177.09	30.61
	28 46	13 31-0921	EA	Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	2,011.99	30.61
	28 46	13 31-0922	EA	Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	75.05	6.12
	28 46	13 31-0923	EA	Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,759.69	30.61
	28 46	13 31-0924	EA	Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	1,675.46	30.61
	28 46	13 31-0925	EA	NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	4,279.46	61.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 46	13 31-0926	EA	NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U)	1,187.20	30.61
28 46	13 31-0927	EA	Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S)	324.18	12.24
28 46	13 31-0928	EA	Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1)	748.58	30.61
28 46	13 31-0929	EA	Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA)	748.58	30.61
28 46	13 31-0930	EA	Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1)	200.38	12.24
28 46	13 31-0931	EA	SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB)	52.82	6.12
28 46	13 31-0932	EA	SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC)	52.82	6.12
28 46	13 31-0933	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR)	199.53	45.92
28 46	13 31-0934	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH)	224.64	45.92
28 46	13 31-0935	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK)	265.60	52.04
28 46	13 31-0936	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK)	262.00	52.04
28 46	13 31-0937	EA	Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8)	1,786.50	122.44
28 46	13 31-0938	EA	Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L)	1,391.66	122.44
28 46	13 31-0939	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW)	199.53	45.92
28 46	13 31-0940	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH)	224.64	45.92
28 46	13 31-0941	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P)	199.53	45.92
28 46	13 31-0942	EA	Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500)	35.89	12.24
28 46	13 31-0943	EA	SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON)	41.04	6.12
28 46	13 31-0944	EA	SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP)	46.81	6.12
28 46	13 31-0945	EA	SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS)	41.09	6.12
28 46	13 31-0946	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR)	182.21	45.92
28 46	13 31-0947	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH)	224.64	45.92
28 46	13 31-0948	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK)	265.60	52.04
28 46	13 31-0949	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P)	224.64	45.92
28 46	13 31-0950	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK)	262.00	52.04
28 46	13 31-0951	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P)	199.53	45.92
28 46	13 31-0952	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW)	199.53	45.92
28 46	13 31-0953	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH)	224.64	45.92
28 46	13 31-0954	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P)	224.64	45.92
28 46	13 31-0955	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P)	199.53	45.92
28 46	13 31-0956	EA	Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1)	280.05	15.31
28 46	13 31-0957	EA	Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT)	1,236.44	61.22
28 46	13 31-0958	EA	Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW)	296.35	61.22
28 46	13 31-0959	EA	Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW)	126.35	30.61
28 46	13 31-0960	EA	Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV)	126.35	30.61
28 46	13 31-0961	EA	Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR)	235.13	30.61
28 46	13 31-0962	EA	Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH)	255.94	30.61
28 46	13 31-0963	EA	Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH)	255.94	30.61
28 46	13 31-0964	EA	Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV)	226.86	30.61
28 46	13 31-0965	EA	Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK)	310.17	30.61
28 46	13 31-0966	EA	Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW)	235.13	30.61
28 46	13 31-0967	EA	Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW)	126.35	30.61
28 46	13 31-0968	EA	Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR)	126.35	30.61
28 46	13 31-0969	EA	Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH)	255.94	30.61
28 46	13 31-0970	EA	Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR)	235.13	30.61
28 46	13 31-0971	EA	Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV)	235.13	30.61

28 46 13 31-0972 Honeywell Fire Alarm (28 46 13 31)

28 46 13 31-0973 Notifier Fire Alarm (28 46 13 31-0972)

28 46 13 31-0974 Fire Alarm Control Panel And Accessories (28 46 13 31-0973)

28 46	13 31-0975	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	5,624.96	612.22
28 46	13 31-0976	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	4,704.28	612.22
28 46	13 31-0977	EA	Central Processing Unit for NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E)	4,744.05	612.22
28 46	13 31-0978	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	5,614.13	612.22
28 46	13 31-0979	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	6,116.26	612.22
28 46	13 31-0980	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	5,957.89	612.22
28 46	13 31-0981	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	5,806.67	612.22
28 46	13 31-0982	EA	Two-Tone Sequential Module (Notifier 2TTM)	393.43	30.61
28 46	13 31-0983	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	99.16	6.12
28 46	13 31-0984	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC)	190.00	12.24
28 46	13 31-0985	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC)	288.56	18.37
28 46	13 31-0986	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	461.99	
28 46	13 31-0987	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	65.32	
28 46	13 31-0988	EA	120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	5,687.60	612.22
28 46	13 31-0989	EA	240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	5,745.95	612.22
28 46	13 31-0990	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	246.81	6.12
28 46	13 31-0991	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	75.35	6.12
28 46	13 31-0992	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	106.35	12.24
28 46	13 31-0993	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	104.43	15.31
28 46	13 31-0994	EA	IP Communicator (Notifier IPDACT-2)	799.45	30.61
28 46	13 31-0995	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	928.05	30.61
28 46	13 31-0996	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC)	213.63	30.61
			Note: Includes IPBRKT.		
28 46	13 31-0997	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B)	213.03	30.61
			Note: Includes IPBRKT		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0998	EA			Dual 8TPC To Single 8TPC Y-Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	53.90	12.24
28 46 13 31-0999	EA			Loop Control Module (Notifier LCM-320)	1,938.54	61.22
28 46 13 31-1000	EA			Loop Expander Module (Notifier LEM-320)	1,834.67	61.22
28 46 13 31-1001	EA			Keyboard Display Module For CPU2-640 (Notifier KDM-R2)	1,475.19	61.22
28 46 13 31-1002	EA			7' DACT Phone Cord (Notifier MCBL-7)	26.17	
28 46 13 31-1003	EA			Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	228.86	15.31
28 46 13 31-1004	EA			Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	259.47	30.61
28 46 13 31-1005	EA			Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	259.47	30.61
28 46 13 31-1006	EA			Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	837.97	30.61
28 46 13 31-1007	EA			Universal Zone Coder (Notifier UZC-256)	1,167.11	30.61
28 46 13 31-1008	EA			Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)	364.41	
				Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 13 31-1009	EA			Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD)	873.65	
28 46 13 31-1010	EA			ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD)	559.27	
28 46 13 31-1011	EA			Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS)	5,182.18	18.37
28 46 13 31-1012	EA			Surface Back Box For NBG-12LRA (Notifier SBA-10)	56.92	15.31
28 46 13 31-1013	EA			Up To 50 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-50X)	2,467.48	612.22
28 46 13 31-1014	EA			Up To 198 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-100X)	3,613.99	612.22
28 46 13 31-1015	ONYX Cabinets <small>(28 46 13 31-0973)</small>					
28 46 13 31-1016	EA			Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	664.55	15.31
28 46 13 31-1017	EA			Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	892.56	15.31
28 46 13 31-1018	EA			Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	1,103.30	15.31
28 46 13 31-1019	EA			Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	135.56	18.37
28 46 13 31-1020	EA			Chassis Bridge (Notifier CB-1)	123.19	15.31
28 46 13 31-1021	EA			Four Position Chassis (Notifier CHS-4)	207.43	15.31
28 46 13 31-1022	EA			Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	203.23	30.61
28 46 13 31-1023	EA			Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	119.48	18.37
28 46 13 31-1024	EA			Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	151.93	18.37
28 46 13 31-1025	EA			One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	369.32	30.61
28 46 13 31-1026	EA			One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	238.14	30.61
28 46 13 31-1027	EA			Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	469.73	45.92
28 46 13 31-1028	EA			Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	295.22	45.92
28 46 13 31-1029	EA			Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	698.92	61.22
28 46 13 31-1030	EA			Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	432.95	61.22
28 46 13 31-1031	EA			Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	848.68	76.53
28 46 13 31-1032	EA			Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	504.47	76.53
28 46 13 31-1033	EA			Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	328.29	15.31
28 46 13 31-1034	EA			Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B)	225.88	15.31
28 46 13 31-1035	EA			Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	225.88	15.31
28 46 13 31-1036	EA			Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	334.24	15.31
28 46 13 31-1037	EA			Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	254.46	15.31
28 46 13 31-1038	EA			Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	423.54	15.31
28 46 13 31-1039	EA			Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	289.59	15.31
28 46 13 31-1040	EA			Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	504.51	15.31
28 46 13 31-1041	EA			Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	416.40	15.31
28 46 13 31-1042	EA			Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	748.60	15.31
28 46 13 31-1043	EA			Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	466.41	15.31
28 46 13 31-1044	EA			Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	896.25	15.31
28 46 13 31-1045	EA			Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	431.53	30.61
28 46 13 31-1046	EA			Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	636.33	30.61
28 46 13 31-1047	EA			Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	745.87	30.61
28 46 13 31-1048	EA			Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	451.77	30.61
28 46 13 31-1049	EA			Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	681.57	30.61
28 46 13 31-1050	EA			Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	795.88	30.61
28 46 13 31-1051	EA			Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	435.10	30.61
28 46 13 31-1052	EA			Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R)	636.33	30.61
28 46 13 31-1053	EA			Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R)	755.40	30.61
28 46 13 31-1054	EA			Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R)	473.20	30.61
28 46 13 31-1055	EA			Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R)	681.57	30.61
28 46 13 31-1056	EA			Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	795.88	30.61
28 46 13 31-1057	EA			Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	3,519.56	153.05
28 46 13 31-1058	EA			CAB-4 Series Mounting Kit (Notifier P40-KITB)	405.33	30.61
				Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 13 31-1059	EA			Black, One Tier Backbox Assembly (Notifier SBB-A4)	417.48	91.83
28 46 13 31-1060	EA			Black, Two Tier Backbox Assembly (Notifier SBB-B4)	590.13	122.44
28 46 13 31-1061	EA			Black, Three Tier Backbox Assembly (Notifier SBB-C4)	775.81	122.44
28 46 13 31-1062	EA			Black, Four Tier Backbox Assembly (Notifier SBB-D4)	944.31	153.05
28 46 13 31-1063	EA			Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	255.30	30.61
28 46 13 31-1064	EA			Red, Mini, One Tier, Backbox (Notifier SBB-AA4R)	255.30	30.61
28 46 13 31-1065	EA			Red, One Tier Backbox Assembly (Notifier SBB-A4R)	310.08	30.61
28 46 13 31-1066	EA			Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	430.34	30.61
28 46 13 31-1067	EA			Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	629.18	30.61
28 46 13 31-1068	EA			Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	743.49	30.61
28 46 13 31-1069	EA			Trim Ring For NFS-320 Cabinet (Notifier TR-320)	245.70	18.37
28 46 13 31-1070	EA			Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	245.70	18.37
28 46 13 31-1071	EA			Black, AA Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	330.83	18.37
28 46 13 31-1072	EA			Black, A Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	261.77	18.37

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1073	EA		Black, B Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	263.56	18.37
28 46 13 31-1074	EA		Black, C Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	260.58	18.37
28 46 13 31-1075	EA		Black, D Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	267.13	18.37
28 46 13 31-1076	EA		2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B)	95.55	18.37
28 46 13 31-1077	EA		Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2)	66.06	6.12
28 46 13 31-1078			NFS2-3030/640 Cabinet Mechanicals <small>(28 46 13 31-0973)</small>		
28 46 13 31-1079	EA		Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	137.14	18.37
28 46 13 31-1080	EA		Blank Module Dress Plate (Notifier BM-1B)	113.75	18.37
28 46 13 31-1081	EA		Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	128.88	18.37
28 46 13 31-1082	EA		Four Position Expansion Chassis (Notifier CHS-4MB)	322.33	15.31
28 46 13 31-1083	EA		Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	289.89	45.92
28 46 13 31-1084	EA		Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	142.64	18.37
28 46 13 31-1085			NFS-3030/640 Cabinet Mechanicals <small>(28 46 13 31-0973)</small>		
28 46 13 31-1086	EA		Annunciator Dress Plate (Notifier ADP-4B)	130.26	18.37
28 46 13 31-1087	EA		Blank Module Dress Plate (Notifier BMP-1)	82.12	18.37
28 46 13 31-1088	EA		Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	184.32	30.61
28 46 13 31-1089	EA		Module Dress Plate (Notifier MP-1B)	131.64	18.37
28 46 13 31-1090			Battery Cabinets <small>(28 46 13 31-0973)</small>		
28 46 13 31-1091	EA		Six Position Chassis (Notifier CHS-6)	119.40	30.61
28 46 13 31-1092	EA		Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB)	588.04	91.83
28 46 13 31-1093			Digital Voice <small>(28 46 13 31-0973)</small>		
28 46 13 31-1094	EA		Chassis Used With BB-XP (Notifier 18439)	60.97	15.31
28 46 13 31-1095	EA		220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	2,383.69	45.92
28 46 13 31-1096	EA		220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	2,316.77	45.92
28 46 13 31-1097	EA		220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E)	1,165.90	45.92
28 46 13 31-1098	EA		Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	596.62	45.92
28 46 13 31-1099	EA		Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	808.78	61.22
28 46 13 31-1100	EA		Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	1,007.20	76.53
28 46 13 31-1101	EA		Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	1,012.41	30.61
28 46 13 31-1102	EA		Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	1,012.41	30.61
28 46 13 31-1103	EA		Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	2,168.77	30.61
28 46 13 31-1104	EA		15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX)	127.95	15.31
28 46 13 31-1105	EA		Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	216.36	15.31
28 46 13 31-1106	EA		Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	217.55	15.31
28 46 13 31-1107	EA		Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR)	210.41	15.31
28 46 13 31-1108	EA		Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS)	212.79	15.31
28 46 13 31-1109	EA		Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA)	434.26	15.31
28 46 13 31-1110	EA		Coil Cord, Telephone Chassis (Notifier AFAWS-TELC)	331.86	15.31
28 46 13 31-1111	EA		Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B)	136.07	
28 46 13 31-1112	EA		For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V)	604.29	30.61
28 46 13 31-1113	EA		For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V)	609.78	30.61
28 46 13 31-1114	EA		Blank Dress Plate For CA-2 (Notifier BP-CA2)	126.16	15.31
28 46 13 31-1115	EA		One Tier Chassis For Digital Voice Command Panel (Notifier CA-1)	160.25	30.61
28 46 13 31-1116	EA		Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2)	496.21	45.92
28 46 13 31-1117	EA		Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM)	253.52	30.61
28 46 13 31-1118	EA		Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR)	253.52	30.61
28 46 13 31-1119	EA		Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1)	328.29	15.31
28 46 13 31-1120	EA		Chassis With Paging Microphone With Well (Notifier CMIC-1)	324.71	15.31
28 46 13 31-1121	EA		120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025)	2,039.10	30.61
28 46 13 31-1122	EA		Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F)	1,920.68	30.61
28 46 13 31-1123	EA		Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF)	1,920.68	30.61
28 46 13 31-1124	EA		120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070)	2,105.12	30.61
28 46 13 31-1125	EA		Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F)	2,033.37	30.61
28 46 13 31-1126	EA		120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525)	2,186.27	30.61
28 46 13 31-1127	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	2,512.32	30.61
28 46 13 31-1128	EA		120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAX-5025)	2,512.32	30.61
28 46 13 31-1129	EA		220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E)	1,938.38	30.61
28 46 13 31-1130	EA		220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E)	1,993.23	30.61
28 46 13 31-1131	EA		220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E)	2,078.81	30.61
28 46 13 31-1132	EA		120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525)	1,316.31	30.61
28 46 13 31-1133	EA		220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E)	1,351.42	30.61
28 46 13 31-1134	EA		120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570)	1,383.24	30.61
28 46 13 31-1135	EA		220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E)	1,429.32	30.61
28 46 13 31-1136	EA		120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025)	1,439.19	30.61
28 46 13 31-1137	EA		220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E)	1,481.98	30.61
28 46 13 31-1138	EA		120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070)	1,524.76	30.61
28 46 13 31-1139	EA		220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E)	1,601.56	30.61
28 46 13 31-1140	EA		Dress Plate For CFFT-1 (Notifier DP-CFFT)	146.41	15.31
28 46 13 31-1141	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1)	123.38	18.37
28 46 13 31-1142	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4)	142.64	18.37
28 46 13 31-1143	EA		Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B)	245.80	18.37
28 46 13 31-1144	EA		WPS Power Amplifier (Notifier DPA3204P)	717.29	30.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1145 EA WPS Power Amplifier (Notifier DPA4001P).....	604.29	30.61
28 46 13 31-1146 EA Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	1,367.88	30.61
28 46 13 31-1147 EA 120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	1,022.29	30.61
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1148 EA 220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	1,034.36	30.61
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1149 EA Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB).....	1,725.54	30.61
28 46 13 31-1150 EA 125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	670.12	30.61
28 46 13 31-1151 EA Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	380.33	30.61
28 46 13 31-1152 EA Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	380.33	30.61
28 46 13 31-1153 EA Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	380.33	30.61
28 46 13 31-1154 EA Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	160.35	30.61
28 46 13 31-1155 EA Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	356.94	30.61
28 46 13 31-1156 EA Extended Memory For Digital Voice Command (Notifier DVC-EM).....	2,055.61	30.61
28 46 13 31-1157 EA Keypad For Digital Voice Command (Notifier DVC-KD).....	596.97	61.22
28 46 13 31-1158 EA Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	303.96	
28 46 13 31-1159 EA Portable Fireman's Telephone Handset (Notifier FHS).....	181.91	
28 46 13 31-1160 EA Red, Fireman's Telephone Handset (Notifier FHS-F).....	211.09	
28 46 13 31-1161 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	525.59	30.61
28 46 13 31-1162 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	525.59	30.61
28 46 13 31-1163 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	85.29	9.18
28 46 13 31-1164 EA Paging Microphone Only (Notifier MIC-1).....	241.40	30.61
28 46 13 31-1165 EA Firefighter's Telephone Handset (Notifier TELH-1).....	208.11	
28 46 13 31-1166 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	596.27	30.61
28 46 13 31-1167 EA Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	596.27	30.61
28 46 13 31-1168 Amplifiers (28 46 13 31-0973)		
28 46 13 31-1169 EA 30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	1,146.44	30.61
28 46 13 31-1170 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	2,501.25	30.61
28 46 13 31-1171 EA 120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	2,429.73	30.61
28 46 13 31-1172 EA Audio Coupling Transformer (Notifier ACT-1).....	175.38	30.61
28 46 13 31-1173 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	205.64	30.61
28 46 13 31-1174 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	205.64	30.61
28 46 13 31-1175 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	205.64	30.61
28 46 13 31-1176 EA 50 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5025).....	1,856.09	30.61
28 46 13 31-1177 EA 50 Watt, 70 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5070).....	1,919.72	30.61
28 46 13 31-1178 EA 75 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-7525).....	1,994.33	30.61
28 46 13 31-1179 EA Distributed Amplifier With Backup Capability (Notifier NFC-50/100DA).....	3,637.80	30.61
Note: Requires NFC-BDA-BU		
28 46 13 31-1180 EA 50 Watt, 25 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25V).....	724.97	30.61
Note: Requires NFC-BDA-BU		
28 46 13 31-1181 EA 50 Watt, 70 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70V).....	728.26	30.61
Note: Requires NFC-BDA-BU		
28 46 13 31-1182 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 13 31-0973)		
28 46 13 31-1183 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	5,120.86	612.22
28 46 13 31-1184 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,591.03	612.22
28 46 13 31-1185 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	4,689.80	612.22
28 46 13 31-1186 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	6,126.66	612.22
28 46 13 31-1187 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	6,785.92	612.22
28 46 13 31-1188 System Printer (28 46 13 31-0973)		
28 46 13 31-1189 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6).....	2,484.75	30.61
28 46 13 31-1190 Batteries (28 46 13 31-0973)		
28 46 13 31-1191 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP).....	681.57	30.61
28 46 13 31-1192 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP).....	531.62	30.61
28 46 13 31-1193 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP).....	699.42	30.61
28 46 13 31-1194 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP).....	407.83	30.61
28 46 13 31-1195 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP).....	570.13	30.61
28 46 13 31-1196 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	568.76	30.61
28 46 13 31-1197 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	905.47	30.61
28 46 13 31-1198 Battery Backboxes And Miscellaneous Mechanicals (28 46 13 31-0973)		
28 46 13 31-1199 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	185.32	24.49
28 46 13 31-1200 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACP5-610, Cabinet (Notifier BB-25).....	313.32	24.49
Note: XP6 modules require a CHS-6.		
28 46 13 31-1201 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Backbox (Notifier BB-26).....	462.21	122.44
28 46 13 31-1202 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	232.58	61.22
28 46 13 31-1203 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	133.61	15.31
28 46 13 31-1204 EA Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	358.18	24.49
28 46 13 31-1205 EA Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	249.02	24.49

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1206	EA		Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	277.00	24.49
28 46 13 31-1207	EA		Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	295.45	24.49
28 46 13 31-1208	EA		Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For FIREVOICE 25/50 Series (Notifier SEISKIT-2550).....	440.72	24.49
28 46 13 31-1209	EA		Two 26 Ampere Hour Battery Bracket Seismic Kit For NFS-320 And BB-26 Series (Notifier SEISKIT-320/B26).....	259.73	24.49
28 46 13 31-1210	EA		Two 100 Ampere Hour Battery Bracket Seismic Kit For BB-100 And BB-200 Series (Notifier SEISKIT-BB100).....	369.28	24.49
			Note: Two kits are required for the BB-200		
28 46 13 31-1211	EA		Two 18 Ampere Hour Battery Bracket Seismic Kit For BB-17 Series (Notifier SEISKIT-BB17).....	319.27	24.49
			Note: Two kits are required for the BB-200		
28 46 13 31-1212	EA		Two 26 Ampere Hour Battery Bracket Seismic Kit For BB-25 Series (Notifier SEISKIT-BB25).....	326.41	24.49
			Note: Two kits are required for the BB-200		
28 46 13 31-1213	EA		Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For SFP-5UD, SFP-10UD, Firewarden 100-2, RP-2001, And RP-2002 Series (Notifier SEISKIT-COMMENC).....	284.74	24.49
			Note: Two kits are required for the BB-200		
28 46 13 31-1214	EA		Two 7 Or 12 Ampere Hour Battery Bracket Seismic Kit For FCPS-24S6/8, CAB-PS1, SFP-2402 And SFP-2404 Series (Notifier SEISKIT-PS/2/4).....	266.88	24.49
			Note: Two kits are required for the BB-200		
28 46 13 31-1215			Power Supplies And Chargers (28 46 13 31-0973)		
28 46 13 31-1216	EA		120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610).....	1,603.65	45.92
28 46 13 31-1217	EA		220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E).....	1,682.64	45.92
28 46 13 31-1218	EA		Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,751.64	30.61
28 46 13 31-1219	EA		6A Auxiliary Power Supply (Notifier APS-6R).....	1,029.83	30.61
28 46 13 31-1220	EA		10 Amperes Battery Charger (Notifier BC10A).....	1,227.76	45.92
28 46 13 31-1221	EA		33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100).....	672.39	36.73
			Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1222	EA		Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R).....	680.73	36.73
			Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1223	EA		30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200).....	945.67	36.73
			Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46 13 31-1224	EA		30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	945.67	36.73
28 46 13 31-1225	EA		15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	232.68	30.61
28 46 13 31-1226	EA		25 To 120 Ampere Hours Battery Charger (Notifier CHG-120).....	1,350.01	30.61
28 46 13 31-1227	EA		Mounts XPIQ-Ps And/or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	104.43	15.31
28 46 13 31-1228	EA		Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	165.75	15.31
28 46 13 31-1229	EA		8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	894.74	30.61
28 46 13 31-1230	EA		8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	942.86	91.83
28 46 13 31-1231	EA		Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R).....	902.27	91.83
28 46 13 31-1232	EA		8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8).....	1,043.79	91.83
28 46 13 31-1233	EA		8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8E).....	1,035.02	91.83
28 46 13 31-1234	EA		Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8CM).....	1,009.01	45.92
28 46 13 31-1235	EA		Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8CME).....	1,009.01	45.92
28 46 13 31-1236	EA		12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF12).....	1,251.48	45.92
28 46 13 31-1237	EA		12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF12E).....	1,195.52	45.92
28 46 13 31-1238	EA		12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPPF12CM).....	1,270.13	91.83
28 46 13 31-1239	EA		12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPPF12CME).....	1,270.13	91.83
28 46 13 31-1240	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	882.52	91.83
28 46 13 31-1241	EA		6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	882.52	91.83
28 46 13 31-1242	EA		8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	952.73	91.83
28 46 13 31-1243	EA		8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	952.73	91.83
28 46 13 31-1244	EA		6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	765.13	91.83
28 46 13 31-1245	EA		9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	902.27	91.83
28 46 13 31-1246	EA		Class A Adapter HPPF8/HPPF12 (Notifier HPP31076).....	194.08	15.31
28 46 13 31-1247	EA		Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	1,498.07	30.61
28 46 13 31-1248	EA		Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	230.30	30.61
28 46 13 31-1249	EA		240 Volt AC Addressable Power Supply (Notifier AMPS-24E).....	1,840.13	30.61
28 46 13 31-1250	EA		6 Amperes, 120 Volt AC Auxiliary Power Supply (Notifier APS2-6R).....	914.34	91.83
28 46 13 31-1251	EA		6 Amperes, 220-240 Volt AC Auxiliary Power Supply (Notifier APS2-6RE).....	952.73	91.83
28 46 13 31-1252	EA		25 To 75 Ampere Hour Sealed Lead Acid Battery Charger (Notifier CHG-75).....	868.69	30.61
28 46 13 31-1253	EA		6 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6E).....	881.42	91.83
28 46 13 31-1254	EA		6 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6R).....	860.58	91.83
28 46 13 31-1255			Network Control Annunciators (28 46 13 31-0973)		
28 46 13 31-1256	EA		Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	2,453.14	91.83
28 46 13 31-1257	EA		Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	93.12	18.37
28 46 13 31-1258	EA		Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	66.99	18.37
28 46 13 31-1259			FIRSTVISION Firefighter's Display (28 46 13 31-0973)		
28 46 13 31-1260	EA		ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	18,954.18	612.22
28 46 13 31-1261			FlashScan Addressable Modules (28 46 13 31-0973)		
28 46 13 31-1262	EA		Intelligent Addressable Control Module (Notifier FCM-1).....	211.14	30.61
28 46 13 31-1263	EA		Addressable Dual Monitor Module (Notifier FDM-1).....	235.90	30.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1264 EA Intelligent Addressable Monitor Module (Notifier FMM-1).....	175.38	30.61
28 46 13 31-1265 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101).....	156.13	30.61
28 46 13 31-1266 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20).....	322.55	30.61
28 46 13 31-1267 EA Intelligent Addressable Relay Module (Notifier FRM-1).....	193.69	30.61
28 46 13 31-1268 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	266.16	30.61
28 46 13 31-1269 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	172.63	30.61
28 46 13 31-1270 Addressable Device Bases And Accessories (28 46 13 31-0973)		
28 46 13 31-1271 EA Intelligent Detector Base With Flange (Notifier B710LP).....	62.73	15.31
28 46 13 31-1272 EA Weatherproof Device Housing (Notifier DH400OE-1).....	544.00	30.61
28 46 13 31-1273 EA Detector Base For All Wireless Smoke And Heat Detectors (Notifier B210W).....	60.97	15.31
28 46 13 31-1274 EA Swift AV Base Ceiling (Notifier WAV-CRL).....	339.00	15.31
28 46 13 31-1275 EA Swift AV Base Wall (Notifier WAV-RL).....	339.00	15.31
28 46 13 31-1276 XP6/XP10 Transponder (28 46 13 31-0973)		
28 46 13 31-1277 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1).....	155.44	30.61
28 46 13 31-1278 EA Six Circuit Supervised Control Module (Notifier XP6-C).....	781.95	30.61
28 46 13 31-1279 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	947.00	30.61
28 46 13 31-1280 EA Six Relay Control Module (Notifier XP6-R).....	751.69	30.61
28 46 13 31-1281 EA Ten Input Monitor Module (Notifier XP10-M).....	905.74	30.61
28 46 13 31-1282 LCD Display Annunciators (28 46 13 31-0973)		
28 46 13 31-1283 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	1,002.05	91.83
28 46 13 31-1284 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	1,407.80	91.83
28 46 13 31-1285 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	1,457.32	91.83
28 46 13 31-1286 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	970.91	30.61
28 46 13 31-1287 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	512.50	30.61
28 46 13 31-1288 EA Eight Switch Smoke Control Master Module (Notifier SCS-8).....	1,259.06	30.61
28 46 13 31-1289 EA White, 80 Character Display, Remote LCD Annunciator (Notifier N-ANN-80-W).....	631.28	91.83
28 46 13 31-1290 ONYX ACM And AEM Series LED Annunciators (28 46 13 31-0973)		
28 46 13 31-1291 EA Remote, Eight Form C Relay Module (Notifier ACM-8R).....	554.17	30.61
28 46 13 31-1292 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	1,036.41	30.61
28 46 13 31-1293 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	792.95	30.61
28 46 13 31-1294 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	1,036.41	30.61
28 46 13 31-1295 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	792.95	30.61
28 46 13 31-1296 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	792.95	30.61
28 46 13 31-1297 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	710.43	30.61
28 46 13 31-1298 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	792.95	30.61
28 46 13 31-1299 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	710.43	30.61
28 46 13 31-1300 Graphic Annunciator - Lamp Driver Modules (28 46 13 31-0973)		
28 46 13 31-1301 EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B).....	323.25	61.22
28 46 13 31-1302 EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	352.14	61.22
28 46 13 31-1303 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B).....	404.76	76.53
28 46 13 31-1304 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	441.89	76.53
28 46 13 31-1305 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B).....	712.19	107.14
28 46 13 31-1306 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	126.82	18.37
28 46 13 31-1307 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B).....	205.65	61.22
28 46 13 31-1308 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB).....	195.36	15.31
28 46 13 31-1309 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B).....	258.61	61.22
28 46 13 31-1310 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	461.15	76.53
28 46 13 31-1311 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	369.17	15.31
28 46 13 31-1312 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	749.33	107.14
28 46 13 31-1313 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR).....	624.68	18.37
28 46 13 31-1314 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB).....	234.89	24.49
28 46 13 31-1315 EA Annunciator Key Switch (Notifier AKS-1B).....	119.88	9.18
28 46 13 31-1316 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D).....	119.68	30.61
28 46 13 31-1317 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32).....	710.43	30.61
28 46 13 31-1318 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24).....	211.68	6.12
28 46 13 31-1319 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48).....	265.26	6.12
28 46 13 31-1320 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32).....	585.26	30.61
28 46 13 31-1321 EA Lamp Driver Module (Notifier LDM-R32).....	1,031.64	30.61
28 46 13 31-1322 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L).....	956.63	30.61
28 46 13 31-1323 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48).....	272.41	6.12
28 46 13 31-1324 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	243.32	18.37
28 46 13 31-1325 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D).....	141.02	18.37
28 46 13 31-1326 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR).....	141.02	18.37
28 46 13 31-1327 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS1).....	232.60	18.37
28 46 13 31-1328 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS2).....	232.60	18.37
28 46 13 31-1329 EA Input/Output Module For Driving Graphic Annunciators Or Relays (Notifier N-ANN-RLED).....	573.07	30.61
28 46 13 31-1330 Network Gateways (28 46 13 31-0973)		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1331	EA	Common Alerting Protocol Gateway (Notifier CAP-GW).....	3,462.26	30.61
28 46	13 31-1332	EA	Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	2,575.80	30.61
28 46	13 31-1333	EA	Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF).....	2,902.73	30.61
28 46	13 31-1334	EA	Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	3,198.95	30.61
28 46	13 31-1335	EA	Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	2,598.84	30.61
28 46	13 31-1336	EA	Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	2,528.62	30.61
28 46	13 31-1337	EA	Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF).....	2,847.88	30.61
28 46	13 31-1338	EA	Modbus Gateway (Notifier MODBUS-GW)	2,836.91	30.61
28 46	13 31-1339	EA	22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	3,284.38	20.21
28 46	13 31-1340	EA	Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	4,886.16	20.21
28 46	13 31-1341	EA	1920x1080P Wide Screen (Notifier MON-42LCDW)	15,495.22	20.21
28 46	13 31-1342	EA	Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	756.86	45.92
28 46	13 31-1343	EA	Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD).....	1,399.23	45.92
28 46	13 31-1344	EA	Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	2,049.14	45.92
28 46	13 31-1345	EA	Mass Notification Voice Paging (Notifier NOTIFY-IP)	1,298.98	
28 46	13 31-1346	EA	Embedded NFN Gateway (Notifier NFN-GW-EM).....	3,004.66	30.61
28 46	13 31-1347	EA	NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F)	3,004.66	30.61
28 46	13 31-1348	EA	High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF).....	3,934.02	30.61
28 46	13 31-1349	EA	High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	4,581.31	30.61
28 46	13 31-1350	EA	High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW).....	3,934.02	30.61
28 46	13 31-1351	EA	NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W).....	3,004.66	30.61
28 46	13 31-1352	EA	Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER).....	1,813.73	
28 46	13 31-1353	EA	ONYXWorks Workstation (Notifier ONYXWORKS-WS)	29,071.84	734.67
28 46	13 31-1354	EA	Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	7,154.33	
			Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46	13 31-1355	EA	Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	7,154.33	
			Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46	13 31-1356	EA	Fiber Optics, Standard Network Repeater Board (Notifier RPT-F)	1,202.21	30.61
28 46	13 31-1357	EA	Wire, Standard Network Repeater Board (Notifier RPT-W).....	979.50	30.61
28 46	13 31-1358	EA	Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	1,164.91	30.61
28 46	13 31-1359	EA	Signaling Line Circuit Integration Module (Notifier SLC-IM).....	1,299.86	30.61
28 46	13 31-1360	EA	VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	2,705.26	30.61
28 46	13 31-1361	EA	Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	2,721.35	30.61
28 46	13 31-1362	EA	Windows Hard Drive Upgrade (Notifier WIN7-UG-US-3).....	3,022.88	
28 46	13 31-1363	EA	Intuitive Color 10" Touch Screen Providing Color Coded Information Of Detailed System Status (Notifier NCD)	1,667.24	20.21
28 46	13 31-1364	EA	SWIFT Wireless Gateway With Flashscan (Notifier FWSG).....	493.55	30.61
28 46	13 31-1365		NOTI-FIRE-NET Network Components (28 46 13 31-0973)		
28 46	13 31-1366	EA	Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3)	3,004.66	30.61
28 46	13 31-1367	EA	Fiber Optic Network Communications Module (Notifier NCM-F).....	1,336.25	30.61
28 46	13 31-1368	EA	NOTI-FIRE-NET Web Server (Notifier NWS).....	3,004.66	30.61
28 46	13 31-1369	EA	Wired Network Communications Module (Notifier NCM-W).....	1,272.98	30.61
28 46	13 31-1370	EA	Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit)	135.42	15.31
28 46	13 31-1371		FireWarden Addressable Fire Panels (28 46 13 31-0973)		
28 46	13 31-1372	EA	50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50).....	2,538.00	612.22
28 46	13 31-1373	EA	Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	3,026.28	612.22
28 46	13 31-1374	EA	Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	3,096.12	306.11
28 46	13 31-1375	EA	Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E).....	3,096.12	306.11
28 46	13 31-1376	EA	Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	3,082.95	306.11
28 46	13 31-1377	EA	Black, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, Built In Annunciator, 50 Point Addressable Fire Alarm Control Panel (Notifier NFW-50C)	3,532.77	612.22
28 46	13 31-1378	EA	Red, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, 50 Point Addressable Fire Alarm Control Panel (NFW-50R)	2,549.76	612.22
28 46	13 31-1379		FireWarden Accessories (28 46 13 31-0973)		
28 46	13 31-1380	EA	Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	232.33	45.92
28 46	13 31-1381	EA	Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	220.43	45.92
28 46	13 31-1382		FireWarden Devices (28 46 13 31-0973)		
28 46	13 31-1383	EA	SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	171.26	30.61
28 46	13 31-1384	EA	Intelligent Addressable Control Module (Notifier NC-100)	204.27	30.61
28 46	13 31-1385	EA	Intelligent Addressable Relay Module (Notifier NC-100R)	196.01	30.61
28 46	13 31-1386	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	478.94	45.92
28 46	13 31-1387	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	580.36	45.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1388 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100)	196.01	30.61
28 46 13 31-1389 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	199.11	45.92
28 46 13 31-1390 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	199.11	45.92
28 46 13 31-1391 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	199.11	45.92
28 46 13 31-1392 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	270.64	45.92
28 46 13 31-1393 EA Intelligent Addressable Monitor Module (Notifier NMM-100)	168.50	30.61
28 46 13 31-1394 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	152.69	30.61
28 46 13 31-1395 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	229.71	30.61
28 46 13 31-1396 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	208.74	45.92
28 46 13 31-1397 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	257.91	30.61
28 46 13 31-1398 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6).....	925.00	30.61
28 46 13 31-1399 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories ^(28 46 13 31-0973)		
28 46 13 31-1400 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,667.28	489.78
28 46 13 31-1401 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	1,844.71	489.78
28 46 13 31-1402 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,285.85	153.05
28 46 13 31-1403 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E).....	1,460.29	153.05
28 46 13 31-1404 EA Class A Converter Module (Notifier CAC-4)	457.72	30.61
28 46 13 31-1405 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	165.62	18.37
28 46 13 31-1406 EA Remote Zone Annunciator (Notifier RZA-4X)	238.29	45.92
28 46 13 31-1407 EA Red, Dress Panel (Notifier DP-51050).....	200.45	18.37
28 46 13 31-1408 EA Black, Dress Panel (Notifier DP-51050B).....	202.83	18.37
28 46 13 31-1409 SFP-5UD 5 Zone Control Panels And Accessories ^(28 46 13 31-0973)		
28 46 13 31-1410 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,593.01	612.22
28 46 13 31-1411 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC)	4,462.26	459.17
28 46 13 31-1412 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,943.17	306.11
28 46 13 31-1413 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,943.17	306.11
28 46 13 31-1414 EA Class A Converter Module (Notifier N-CAC-5X)	474.39	30.61
28 46 13 31-1415 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	179.61	18.37
28 46 13 31-1416 EA Five Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-5UDC)	3,856.45	459.17
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1417 EA 240 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDE).....	2,554.15	306.11
28 46 13 31-1418 EA Red, 120 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDR)	2,531.11	306.11
28 46 13 31-1419 SFP-10UD 10 Zone Control Panels And Accessories ^(28 46 13 31-0973)		
28 46 13 31-1420 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	5,411.32	612.22
28 46 13 31-1421 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	4,045.96	459.17
28 46 13 31-1422 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD)	2,978.14	612.22
28 46 13 31-1423 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,658.19	612.22
28 46 13 31-1424 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	772.35	91.83
28 46 13 31-1425 EA 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-10UDC)	4,733.08	612.22
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1426 EA 240 Volt AC, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDE).....	3,530.61	459.17
28 46 13 31-1427 EA Red, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDR)	4,119.41	612.22
28 46 13 31-1428 Smoke Detectors ^(28 46 13 31-0973)		
28 46 13 31-1429 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	289.89	45.92
28 46 13 31-1430 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	490.71	45.92
28 46 13 31-1431 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,444.16	45.92
28 46 13 31-1432 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	207.33	45.92
Note: For use with DNR(W) duct detector housing.		
28 46 13 31-1433 EA Filters For Harsh Detector (Notifier RF-FTX)	25.14	
28 46 13 31-1434 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	175.04	30.61
28 46 13 31-1435 EA Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-RI)	1,897.67	45.92
28 46 13 31-1436 EA Intelligent Addressable Photo Detector With Flashscan, White (Notifier FSP-951)	215.96	45.92
28 46 13 31-1437 EA Intelligent Addressable Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951-IV).....	235.61	45.92
28 46 13 31-1438 EA Remote Test Capable Intelligent Photo Detector With Flashscan, White (Notifier FSP-951R)	225.78	45.92
28 46 13 31-1439 EA Remote Test Capable Intelligent Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951R-IV)	243.64	45.92
28 46 13 31-1440 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, White (Notifier FSP-951T)	226.97	45.92
28 46 13 31-1441 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, Ivory (Notifier FSP-951T-IV)	244.83	45.92
28 46 13 31-1442 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan, White (Notifier FST-951)	184.70	45.92
28 46 13 31-1443 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan (Notifier FST-951H)	184.70	45.92
28 46 13 31-1444 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan And Clip, Ivory (Notifier FST-951H-IV)	201.37	45.92
28 46 13 31-1445 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951-IV)	201.37	45.92
28 46 13 31-1446 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan, White (Notifier FST-951R)	184.70	45.92
28 46 13 31-1447 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951R-IV)	201.37	45.92

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28 46	13 31-1448	EA	Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, White (Notifier FSV-951R)	494.29	45.92
28 46	13 31-1449	EA	Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, Ivory (Notifier FSV-951R-IV)	530.01	45.92
28 46	13 31-1450	EA	Wireless Photo-Heat Detector, Acclimate, With Flashscan (Notifier FWD-200ACCLIMATE)	493.10	45.92
			Note: Requires B210W base, ordered separately		
28 46	13 31-1451	EA	Wireless Photo Detector With Flashscan (Notifier FWD-200P)	453.80	45.92
			Note: Requires B210W base, ordered separately		
28 46	13 31-1452	EA	Wireless Fixed Temp Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200FIX135)	412.13	45.92
			Note: Requires B210W base, ordered separately		
28 46	13 31-1453	EA	Wireless ROR Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200ROR135)	412.13	45.92
			Note: Requires B210W base, ordered separately		
28 46	13 31-1454	EA	Intelligent Addressable Carbon Monoxide Detector With Flashscan (Notifier FPC-951)	300.20	45.92
28 46	13 31-1455	EA	Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-250)	2,919.08	45.92
			Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46	13 31-1456	EA	Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-500)	3,577.46	45.92
			Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1457 Pull Stations (28 46 13 31-0973)					
28 46	13 31-1458	EA	Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	37.01	6.12
28 46	13 31-1459	EA	One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2)	92.79	15.31
28 46	13 31-1460	EA	Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R)	80.14	15.31
28 46	13 31-1461	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	120.81	30.61
28 46	13 31-1462	EA	DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F)	133.77	30.61
28 46	13 31-1463	EA	Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS)	184.73	30.61
28 46	13 31-1464	EA	Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	120.81	30.61
28 46	13 31-1465	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	139.81	30.61
28 46	13 31-1466	EA	Standard Local Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	139.81	30.61
28 46	13 31-1467	EA	Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSTR)	139.81	30.61
28 46	13 31-1468	EA	Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	132.04	30.61
28 46	13 31-1469	EA	Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R)	143.27	30.61
28 46	13 31-1470	EA	Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	968.71	36.73
28 46	13 31-1471	EA	Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S)	105.40	30.61
28 46	13 31-1472	EA	Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	110.52	30.61
28 46	13 31-1473	EA	Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	117.96	30.61
28 46	13 31-1474	EA	Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	272.91	36.73
28 46	13 31-1475	EA	Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	166.89	30.61
28 46	13 31-1476	EA	Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	139.81	30.61
28 46	13 31-1477	EA	Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	231.09	30.61
28 46	13 31-1478	EA	Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE)	69.24	6.12
28 46	13 31-1479	EA	Dual Action, Wireless Pull Station (Notifier NBG-12WL)	484.26	36.73
28 46 13 31-1480 Rate Compensation Heat Detectors (28 46 13 31-0973)					
28 46	13 31-1481	EA	135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135)	212.87	45.92
28 46	13 31-1482	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194)	212.87	45.92
28 46 13 31-1483 FM Series Door Releases (28 46 13 31-0973)					
28 46	13 31-1484	EA	1/2" Door Holder Spacer (Notifier FM900-50)	34.88	9.18
28 46	13 31-1485	EA	3/4" Door Holder Spacer (Notifier FM900-75)	34.88	9.18
28 46	13 31-1486	EA	1" Door Holder Spacer (Notifier FM900-100)	34.88	9.18
28 46	13 31-1487	EA	Door Holder Extension Kit (Notifier FM900)	36.94	9.18
28 46	13 31-1488	EA	90 Degree Door Holder Extension Kit (Notifier FM900-Z)	37.63	9.18
28 46	13 31-1489	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980)	237.45	45.92
28 46	13 31-1490	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996)	207.37	45.92
28 46	13 31-1491	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998)	207.37	45.92
28 46 13 31-1492 Multicriteria Fire Detector (28 46 13 31-0973)					
28 46	13 31-1493	EA	Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851)	359.74	45.92
28 46	13 31-1494	EA	Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)	358.55	45.92
			Note: Detects fire, thermal, photo, CO and IR, with Flashscan.		
28 46	13 31-1495	EA	Multi-Criteria Photo/Temp/Infrared Detector, White (Notifier FPTI-951)	232.33	45.92
28 46	13 31-1496	EA	Multi-Criteria Photo/Temp/Infrared Detector, Ivory (Notifier FPTI-951-IV)	240.67	45.92
28 46	13 31-1497	EA	Intelligent Addressable Combination Multi-Criteria Photoelectric And Carbon Monoxide Detector With Flashscan (Notifier FSCO-951)	359.74	45.92
28 46 13 31-1498 Modules (28 46 13 31-0973)					
28 46	13 31-1499	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1)	431.53	30.61
28 46	13 31-1500	EA	Addressable Firephone Control Module (Notifier FTM-1)	266.02	30.61
28 46	13 31-1501	EA	Wireless Monitor Module With Flashscan (Notifier FW-MM)	417.24	30.61
28 46	13 31-1502	EA	Wireless Relay Module With Flashscan (Notifier FW-RM)	482.73	30.61
28 46	13 31-1503	EA	Wireless Sync Module (Notifier W-SYNC)	459.47	30.61
28 46 13 31-1504 DH Series Door Releases (28 46 13 31-0973)					
28 46	13 31-1505	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC)	220.13	45.92



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1506	EA			Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	234.71	45.92
28 46 13 31-1507	EA			Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	248.41	45.92
28 46 13 31-1508	EA			Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	244.83	45.92
28 46 13 31-1509	EA			Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	256.74	45.92
28 46 13 31-1510	EA			Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	266.86	45.92
28 46 13 31-1511	EA			Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	220.13	45.92
28 46 13 31-1512	EA			Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	232.93	45.92
28 46 13 31-1513	EA			Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	248.41	45.92
28 46 13 31-1514	EA			Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	281.15	45.92
28 46 13 31-1515	EA			Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	300.20	45.92
28 46 13 31-1516	EA			Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	322.23	45.92
28 46 13 31-1517	EA			Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	327.59	45.92
28 46 13 31-1518	EA			Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	350.21	45.92
28 46 13 31-1519	EA			Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	377.60	45.92
28 46 13 31-1520	EA			0.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	25.28	6.12
28 46 13 31-1521	EA			0.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	25.28	6.12
28 46 13 31-1522	EA			0.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	27.72	6.12
28 46 13 31-1523	EA			1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	25.28	6.12
28 46 13 31-1524	EA			1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	25.28	6.12
28 46 13 31-1525	EA			1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	27.72	6.12
28 46 13 31-1526	EA			1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	26.53	6.12
28 46 13 31-1527	EA			1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	26.53	6.12
28 46 13 31-1528	EA			1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	27.72	6.12
28 46 13 31-1529	EA			1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	29.09	6.12
28 46 13 31-1530	EA			2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	29.09	6.12
28 46 13 31-1531	EA			2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	29.09	6.12
28 46 13 31-1532	EA			2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	30.34	6.12
28 46 13 31-1533	EA			2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	30.34	6.12
28 46 13 31-1534	EA			3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	30.34	6.12
28 46 13 31-1535	EA			3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	31.71	6.12
28 46 13 31-1536	EA			3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D).....	31.71	6.12
28 46 13 31-1537	EA			4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC).....	32.96	6.12
28 46 13 31-1538	EA			4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC).....	32.96	6.12
28 46 13 31-1539	EA			4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	34.33	6.12
28 46 13 31-1540	EA			4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	38.20	6.12
28 46 13 31-1541	EA			5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC).....	36.89	6.12
28 46 13 31-1542	EA			5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	35.58	6.12
28 46 13 31-1543	EA			5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	38.20	6.12
28 46 13 31-1544	EA			Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP).....	35.22	9.18
28 46 13 31-1545	EA			Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	36.47	9.18
28 46 13 31-1546	EA			Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	40.46	9.18
28 46 13 31-1547	EA			Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	66.36	9.18
28 46 13 31-1548	EA			Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	70.17	9.18
28 46 13 31-1549	EA			Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD).....	73.98	9.18
28 46 13 31-1550	EA			Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC).....	60.38	15.31
28 46 13 31-1551	EA			Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB).....	63.00	15.31
28 46 13 31-1552	EA			Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD).....	68.24	15.31
28 46 13 31-1553	EA			Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	367.93	
28 46 13 31-1554				First Command <small>(28 46 13 31-0973)</small>		
28 46 13 31-1555	EA			Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100).....	6,648.67	765.28
28 46 13 31-1556	EA			Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E).....	6,714.50	765.28
28 46 13 31-1557	EA			Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA).....	1,845.57	61.22
28 46 13 31-1558	EA			Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,894.94	61.22
28 46 13 31-1559	EA			Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	3,382.62	61.22
28 46 13 31-1560	EA			Black, , 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	3,492.34	61.22
28 46 13 31-1561	EA			50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt).....	854.73	30.61
28 46 13 31-1562	EA			50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt).....	854.73	30.61
28 46 13 31-1563	EA			Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4).....	542.26	30.61
28 46 13 31-1564	EA			Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6).....	707.42	30.61
28 46 13 31-1565	EA			Standalone Firefighter Telephone System (Notifier NFC-FFT).....	2,499.45	61.22
				Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
28 46 13 31-1566	EA			Local Operator Console (Notifier NFC-LOC).....	2,446.79	61.22
				Note: Includes built-in microphone, message and zone control switches, black.		
28 46 13 31-1567	EA			Black, Remote Microphone (Notifier NFC-RM).....	714.39	
28 46 13 31-1568	EA			Remote Page Unit (Notifier NFC-RPU).....	2,068.29	61.22
				Note: Includes built-in microphone, message control switches, black.		
28 46 13 31-1569	EA			70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V).....	410.10	30.61
28 46 13 31-1570	EA			Firefighters Phone Jack (Notifier N-FPJ).....	188.04	9.18
28 46 13 31-1571	EA			Thumbtatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH).....	51.23	9.18

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1572	EA		Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B).....	166.81	18.37
28 46 13 31-1573			LED Displays (28 46 13 31-0973)		
28 46 13 31-1574	EA		2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	1,951.72	36.73
28 46 13 31-1575	EA		Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW).....	2,743.08	48.98
28 46 13 31-1576	EA		4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT).....	2,774.90	48.98
28 46 13 31-1577	EA		8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8).....	2,665.19	48.98
28 46 13 31-1578	EA		16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16).....	3,729.38	48.98
28 46 13 31-1579	EA		LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V).....	2,829.75	48.98
28 46 13 31-1580			Control Relays (28 46 13 31-0973)		
28 46 13 31-1581	EA		Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR).....	81.45	15.31
28 46 13 31-1582	EA		Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T).....	61.33	15.31
28 46 13 31-1583	EA		Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR).....	224.94	30.61
28 46 13 31-1584	EA		Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T).....	126.16	15.31
28 46 13 31-1585	EA		Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T).....	150.87	15.31
28 46 13 31-1586	EA		24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C).....	231.49	30.61
28 46 13 31-1587	EA		120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	231.49	30.61
28 46 13 31-1588	EA		Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR).....	115.99	30.61
28 46 13 31-1589	EA		Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T).....	66.57	15.31
28 46 13 31-1590	EA		Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR).....	246.37	30.61
28 46 13 31-1591	EA		24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	82.89	30.61
28 46 13 31-1592	EA		12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	82.89	30.61
28 46 13 31-1593	EA		9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	82.89	30.61
28 46 13 31-1594			Gamewell-FCI Fire Control Instruments (28 46 13 31-0973)		
28 46 13 31-1595			7100 Series And NetSOLO® (28 46 13 31-1594)		
28 46 13 31-1596			7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 13 31-1595)		
28 46 13 31-1597	EA		Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M).....	1,135.67	367.34
28 46 13 31-1598	EA		Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2).....	4,907.52	612.22
28 46 13 31-1599	EA		Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	5,374.26	612.22
28 46 13 31-1600	EA		Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	4,907.52	612.22
28 46 13 31-1601	EA		Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E).....	5,374.26	612.22
28 46 13 31-1602	EA		Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,560.47	
28 46 13 31-1603	EA		Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,872.72	
28 46 13 31-1604	EA		Analog Loop Unit (Gamewell-FCI ALU).....	1,872.72	61.22
28 46 13 31-1605			NetSOLO® Intelligent Network (28 46 13 31-1595)		
28 46 13 31-1606	EA		Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)..... Note: Mounted in 7100 panel.	2,078.16	61.22
28 46 13 31-1607	EA		Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP)..... Note: Mounted in 7100 panel.	1,649.21	61.22
28 46 13 31-1608			Components And Accessories (28 46 13 31-1595)		
28 46 13 31-1609	EA		Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	1,022.03	45.92
28 46 13 31-1610	EA		Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	773.25	61.22
28 46 13 31-1611	EA		Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	1,425.70	61.22
28 46 13 31-1612	EA		Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	569.46	61.22
28 46 13 31-1613	EA		Enclosure Box (Gamewell-FCI EN-7100).....	453.61	122.44
28 46 13 31-1614	EA		Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	1,494.32	30.61
28 46 13 31-1615			E3 Series® Basic System (28 46 13 31-1594)		
28 46 13 31-1616	EA		Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	1,362.88	61.22
28 46 13 31-1617	EA		Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	1,169.63	61.22
28 46 13 31-1618	EA		Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	1,362.88	61.22
28 46 13 31-1619	EA		Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	1,169.63	61.22
28 46 13 31-1620	EA		LCD Keypad Display (Gamewell-FCI LCD-E3).....	868.66	61.22
28 46 13 31-1621	EA		Power Supply Module (Gamewell-FCI PM-9).....	1,140.21	61.22
28 46 13 31-1622	EA		Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX).....	958.59	61.22
28 46 13 31-1623	EA		Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A).....	952.40	30.61
28 46 13 31-1624	EA		Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	541.18	61.22
28 46 13 31-1625	EA		Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	1,464.59	61.22
28 46 13 31-1626	EA		Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP).....	1,225.67	61.22
28 46 13 31-1627	EA		Local Operating Console (Gamewell-FCI 1100-0455).....	817.48	45.92
28 46 13 31-1628	EA		Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	2,649.47	45.92
28 46 13 31-1629	EA		70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	1,045.43	61.22
28 46 13 31-1630	EA		INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	3,203.72	61.22
28 46 13 31-1631	EA		8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1).....	725.03	122.44
28 46 13 31-1632	EA		C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC).....	529.24	122.44
28 46 13 31-1633	EA		Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	115.60	30.61



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1634	EA			Programmable Switch Module (Gamewell-FCI ASM-16).....	730.42	61.22
28 46 13 31-1635	EA			LED Driver module (Gamewell-FCI ANU-48)	730.42	61.22
28 46 13 31-1636	EA			Network Graphic Annunciator (Gamewell-FCI NGA).....	2,220.46	45.92
28 46 13 31-1637				Addressable Devices, Module, Pulls And Accessories (28 46 13 31-1594)		
28 46 13 31-1638				Velociti® Series Sensors And Bases (28 46 13 31-1637)		
28 46 13 31-1639	EA			Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	226.59	45.92
28 46 13 31-1640	EA			Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	231.52	45.92
28 46 13 31-1641	EA			Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	246.32	45.92
28 46 13 31-1642	EA			Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	187.15	45.92
28 46 13 31-1643	EA			Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	195.37	45.92
28 46 13 31-1644	EA			Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	187.15	45.92
28 46 13 31-1645	EA			Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	280.83	45.92
28 46 13 31-1646	EA			Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	625.95	45.92
28 46 13 31-1647	EA			Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	522.83	76.53
28 46 13 31-1648	EA			Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	588.57	76.53
28 46 13 31-1649	EA			Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	279.60	
28 46 13 31-1650	EA			Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF)	56.91	15.31
28 46 13 31-1651	EA			Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F).....	675.26	45.92
28 46 13 31-1652	EA			Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	133.33	15.31
28 46 13 31-1653	EA			Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	2,402.33	91.83
28 46 13 31-1654				Velociti® Series Modules And Pull Station (28 46 13 31-1637)		
28 46 13 31-1655	EA			Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2F).....	165.58	30.61
28 46 13 31-1656	EA			Dual Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2IF)	269.94	30.61
28 46 13 31-1657	EA			Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4F).....	182.01	30.61
28 46 13 31-1658	EA			Subloop Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4SF).....	258.44	30.61
28 46 13 31-1659	EA			Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	214.88	30.61
28 46 13 31-1660	EA			Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	223.10	30.61
28 46 13 31-1661	EA			Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	308.97	61.22
28 46 13 31-1662	EA			Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	230.50	30.61
28 46 13 31-1663	EA			Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	36.89	6.12
28 46 13 31-1664				Components And Accessories (28 46 13 31-1637)		
28 46 13 31-1665	EA			Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)	90.07	24.49
				Note: Mounts on single gang box.		
28 46 13 31-1666	EA			Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	45.03	12.24
28 46 13 31-1667	EA			>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	48.32	12.24
28 46 13 31-1668	EA			>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	57.73	15.31
28 46 13 31-1669	EA			>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	94.25	18.37
28 46 13 31-1670	EA			Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451).....	141.01	24.49
				Note: Mounts on single gang box.		
28 46 13 31-1671				Fixed And Rate of Rise Heat Detectors (28 46 13 31-1637)		
28 46 13 31-1672	EA			135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P).....	119.77	45.92
28 46 13 31-1673	EA			194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	119.77	45.92
28 46 13 31-1674	EA			135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	120.05	45.92
28 46 13 31-1675	EA			194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	120.05	45.92
28 46 13 31-1676				NAC Expander/Power Supply (28 46 13 31-1637)		
28 46 13 31-1677	EA			FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	2,162.85	489.78
28 46 13 31-1678	EA			6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,850.59	489.78
28 46 13 31-1679	EA			9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	2,006.72	489.78
28 46 13 31-1680				Batteries And Accessories (28 46 13 31-1594)		
28 46 13 31-1681	EA			B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	343.90	30.61
28 46 13 31-1682	EA			B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	879.66	30.61
28 46 13 31-1683	EA			B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	179.55	30.61
28 46 13 31-1684	EA			BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	419.91	61.22
28 46 13 31-1685	EA			BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	419.91	61.22
28 46 13 31-1686	EA			12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	372.25	61.22
28 46 13 31-1687				Electronic Door Holders (28 46 13 31-1594)		
				Note: Rixson products.		
28 46 13 31-1688	EA			XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	60.56	6.12
28 46 13 31-1689	EA			FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder (Gamewell-FCI 140-90000)	486.26	45.92
28 46 13 31-1690	EA			FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	665.40	45.92
28 46 13 31-1691	EA			FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	307.78	45.92
28 46 13 31-1692	EA			FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	292.99	45.92



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1693	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	307.78	45.92
28 46	13 31-1694	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	307.12	45.92
28 46	13 31-1695		Fire Alarm Programming <small>(28 46 13 31-1594)</small> Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
28 46	13 31-1696	EA	Program And Test Up To 5 Total Fire Alarm Devices	500.00	
28 46	13 31-1697	EA	Program And Test >5 To 20 Total Fire Alarm Devices	1,000.00	
28 46	13 31-1698	EA	Program And Test >20 To 50 Total Fire Alarm Devices	2,000.00	
28 46	13 31-1699		Fire-Lite Fire Alarm <small>(28 46 13 31-0972)</small>		
28 46	13 31-1700		Intelligent Addressable Fire Alarm Control Panel <small>(28 46 13 31-1699)</small>		
28 46	13 31-1701	EA	50 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-50X)	1,292.72	244.89
28 46	13 31-1702	EA	198 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-200X)	1,662.79	275.50
28 46	13 31-1703	EA	954 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-1000X)	2,477.28	306.11
28 46	13 31-1704	EA	Loop Expander Module (Fire-Lite SLC-3LS)	734.08	45.92
28 46	13 31-1705	EA	Optional Cabinet For 1 Or 2 Modules (Fire-Lite BB-2F)	205.36	30.61
28 46	13 31-1706	EA	Optional Cabinet For Up To 6 Modules Mounted On CHS-6 (Fire-Lite BB-6F)	289.86	30.61
28 46	13 31-1707	EA	Battery Backbox (Fire-Lite BB-26)	178.08	18.37
28 46	13 31-1708	EA	Battery Box (Fire-Lite BB-55F)	328.05	18.37
28 46	13 31-1709	EA	Chassis, Mounts Up To 6 Multi-Modules In A BB-6F Cabinet (Fire-Lite CHS-6)	90.38	12.24
28 46	13 31-1710	EA	Chassis, Mounts Up To Six Multi-Modules In A BB-6F Cabine (Fire-Lite CHG-75)	768.99	30.61
28 46	13 31-1711	EA	Battery Charger For Lead-Acid Batteries With A Rating Of 25 To 75 AH (Fire-Lite CHG-120F)	1,638.94	61.22
28 46	13 31-1712	EA	6 AMP, NAC Expander Power Supply (Fire-Lite FL-PS6)	891.54	30.61
28 46	13 31-1713	EA	10 AMP, NAC Expander Power Supply (Fire-Lite FL-PS10)	921.17	30.61
28 46	13 31-1714	EA	Remote, Red LCD Annunciator Mimics The Information Displayed On The Face LCD Display (Fire-Lite ANN-80)	361.30	30.61
28 46	13 31-1715	EA	Led Driver Module Provides Connections To A User Supplied Graphic Annunciator (Fire-Lite ANN-I/O)	441.94	30.61
28 46	13 31-1716	EA	Annunciator Module Provides Three Leds For Each Zone: Alarm, Trouble, And Supervisory. Ships With Red Enclosure (Fire-Lite ANN-LED)	386.64	30.61
28 46	13 31-1717	EA	Provides Alarm (Red) Indicators For Up To 30 Input Zones Or Addressable Points (Fire-Lite ANN-RLED)	386.64	30.61
28 46	13 31-1718	EA	Relay Module Provides 10 Programmable Form-C Relays (Fire-Lite ANN-RLY)	311.12	30.61
28 46	13 31-1719	EA	Serial/Parallel Printer Gateway Module (Fire-Lite ANN-S/PG)	304.28	30.61
28 46	13 31-1720	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD365(A))	158.41	45.92
28 46	13 31-1721	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD365T(A))	177.06	45.92
28 46	13 31-1722	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD365R(A))	182.40	45.92
28 46	13 31-1723	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (CO) Detection (Fire-Lite SD365CO)	323.42	45.92
28 46	13 31-1724	EA	Low-Profile 135°F Fixed Thermal Sensor (Fire-Lite H365(A))	151.74	45.92
28 46	13 31-1725	EA	Low-Profile, Intelligent, Rate-Of-Rise Thermal Sensor (Fire-Lite H365R(A))	170.32	45.92
28 46	13 31-1726	EA	Low-Profile Intelligent 190°F/88°C Fixed Thermal Sensor (Fire-Lite H365HT(A))	200.60	45.92
28 46	13 31-1727	EA	Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite D365PL)	624.25	45.92
28 46	13 31-1728	EA	Addressable Low-Profile Ionization Smoke Detector (Fire-Lite CP355(A))	233.58	45.92
28 46	13 31-1729	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD355(A))	158.41	45.92
28 46	13 31-1730	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD355T(A))	203.42	45.92
28 46	13 31-1731	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD355R(A))	227.28	45.92
28 46	13 31-1732	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (Co) Detection (Fire-Lite SD355CO)	168.40	45.92
28 46	13 31-1733	EA	Fast-Response, Low-Profile Heat Detector (Fire-Lite H355(A))	202.80	45.92
28 46	13 31-1734	EA	Fast-Response, Low-Profile Heat Detector With Rate-Of-Rise Option (Fire-Lite H355R(A))	196.41	45.92
28 46	13 31-1735	EA	Fast-Response, Low-Profile Heat Detector That Activates At 190°F/88°C (Fire-Lite H355HT(A))	229.38	45.92
28 46	13 31-1736	EA	Low-Profile, Intelligent, "Adapt" Multi-Sensor Detector (B350LP Base Included) (Fire-Lite AD355(A))	224.13	45.92
28 46	13 31-1737	EA	Programmable, Addressable Sounder Base (Fire-Lite B200S(A)-WH)	142.54	30.61
28 46	13 31-1738	EA	Addressable Sounder Base (Fire-Lite B200SR(A)-WH)	164.19	30.61
28 46	13 31-1739	EA	Programmable, Addressable Sounder Base, Low-Frequency (Fire-Lite B200S-LF-WH)	187.52	30.61
28 46	13 31-1740	EA	Addressable Sounder Base, Low-Frequency (Fire-Lite B200SR-LF-WH)	191.45	30.61
28 46	13 31-1741	EA	Intelligent Beam Smoke Detector (Fire-Lite BEAM355)	1,703.58	45.92
28 46	13 31-1742	EA	Intelligent Beam Smoke Detector With Integral Sensitivity Test (Fire-Lite BEAM355S)	1,949.28	45.92
28 46	13 31-1743	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Includes SD355R) (Fire-Lite D355PL(A))	277.30	30.61
28 46	13 31-1744	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite DNR(A))	169.32	30.61
28 46	13 31-1745	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing, With NEMA-4 Rating, Watertight (Fire-Lite DNRW)	259.09	30.61
28 46	13 31-1746	EA	Addressable Control Module For One Class B Or A Zone Of Supervised Polarized Notification Appliances (Fire-Lite CMF-300)	110.17	18.37
28 46	13 31-1747	EA	Six-Circuit Supervised Control Module (Fire-Lite CMF-300-6)	566.35	30.61
28 46	13 31-1748	EA	Addressable Relay Module Containing Two Isolated Sets Of Form-C Contacts, Which Operate As A Dpdt Switch (Fire-Lite CRF-300)	166.31	30.61
28 46	13 31-1749	EA	Six-Relay Control Module (Form-C Relays) (Fire-Lite CRF-300-6)	473.37	30.61
28 46	13 31-1750	EA	Module Isolates The SLC (DCL) Loop From Short Circuit Conditions (Fire-Lite I300)	90.15	15.31
28 46	13 31-1751	EA	Six-Fault Isolator Module (Fire-Lite ISO-6)	424.30	30.61
28 46	13 31-1752	EA	Dual Monitor Module (Fire-Lite MDF-300)	201.90	30.61
28 46	13 31-1753	EA	Addressable Monitor Module For One Zone Of Normally-Open Dry-Contact Initiating Devices (Fire-Lite MMF-300)	89.89	15.31
28 46	13 31-1754	EA	Ten-Input Monitor Module (Fire-Lite MMF-300-10)	612.83	30.61
28 46	13 31-1755	EA	Miniature Version Of MMF-300 (Fire-Lite MMF-301)	119.54	24.49
28 46	13 31-1756	EA	Addressable Monitor Module For One Zone Of Conventional Two-Wire Detectors (Fire-Lite MMF-302)	169.96	30.61
28 46	13 31-1757	EA	Six-Zone Interface Module (Fire-Lite MMF-302-6)	606.13	30.61
28 46	13 31-1758	EA	Mount For Modules (Fire-Lite SMB500)	18.13	3.06



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				28 46 13 31-1759 Addressable Control Panels <small>(28 46 13 31-1699)</small>		
				28 46 13 31-1760 EA 25 Point Intelligent Control (Fire Lite MS-25).....	2,041.38	612.22
				28 46 13 31-1761 EA 50 Point Intelligent Control (Fire Lite MS-9050UD).....	2,240.14	612.22
				28 46 13 31-1762 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	3,158.71	612.22
				28 46 13 31-1763 EA 636-Point Intelligent Control (Fire Lite MS-9600LS).....	4,642.57	612.22
				28 46 13 31-1764 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	4,553.13	612.22
				28 46 13 31-1765 EA IP And 4G Cellur Fire Alram Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	672.53	
				28 46 13 31-1766 Silent Knight Fire Alarm <small>(28 46 13 31-0972)</small>		
				28 46 13 31-1767 Addressable Fire Alarm Control Panel <small>(28 46 13 31-1766)</small>		
				28 46 13 31-1768 EA Addressable Fire Alarm Control Panel (Silent Knight 6820).....	2,551.83	306.11
				28 46 13 31-1769 Intelligent Addressable Fire Alarm Control Panel with Emergency Voice System <small>(28 46 13 31-1766)</small>		
				28 46 13 31-1770 EA Intelligent Fire Alarm Control Panel with Emergency Voice System (Silent Knight 6820EVS).....	4,932.37	306.11
				28 46 13 31-1771 Compatible EVS Equipment <small>(28 46 13 31-1766)</small>		
				28 46 13 31-1772 EA 50 Watt Amplifier (Silent Knight EVS-50W).....	900.25	61.22
				28 46 13 31-1773 EA 125 Watt Amplifier (Silent Knight EVS-125W).....	1,574.23	61.22
				28 46 13 31-1774 EA 50/100 Watt Amplifier (Silent Knight EVS-100W).....	1,955.52	61.22
				28 46 13 31-1775 EA External Backup Amplifier (Silent Knight EVS-100WBW).....	690.73	61.22
				28 46 13 31-1776 EA 50 Watt Internal Amplifier (Silent Knight EVS-INT50W).....	649.83	61.22
				28 46 13 31-1777 EA 4 Additional Audio Circuits (Silent Knight EVS-CE4).....	235.91	15.31
				28 46 13 31-1778 EA Remote Voice Module (Silent Knight EVS-RVM).....	1,047.93	24.49
				28 46 13 31-1779 EA 24 Switch Expander (Silent Knight EVS-SW24).....	417.57	30.61
				28 46 13 31-1780 EA Network Voice Control Module (Silent Knight EVS-VCM).....	1,253.82	24.49
				28 46 13 31-1781 EA Local Operator Consoule (Silent Knight EVS-LOC).....	1,690.67	61.22
				28 46 13 31-1782 Compatible SBUS Devices <small>(28 46 13 31-1766)</small>		
				28 46 13 31-1783 EA 4x40 LCD Remote Fire Annunciator With Four Programmable Buttons, Red (Silent Knight 6860).....	1,014.94	61.22
				28 46 13 31-1784 EA 4x20 LCD Remote Fire Annunciator, Gray (Silent Knight 5860).....	458.54	61.22
				28 46 13 31-1785 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 5860R).....	544.97	61.22
				28 46 13 31-1786 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 6855).....	360.58	61.22
				28 46 13 31-1787 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) (Silent Knight 5865-3).....	461.79	61.22
				28 46 13 31-1788 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) With Key Switches For Silence And Reset, And A System Trouble Led (Silent Knight 5865-4).....	487.78	61.22
				28 46 13 31-1789 EA LED I/O Module With 40 Programmable LED Outputs And Eight Supervised Dry Contact Inputs (Silent Knight 5880).....	380.86	45.92
				28 46 13 31-1790 EA Relay Interface. Provides 10 Form C Relays (Silent Knight 5883).....	231.29	30.61
				28 46 13 31-1791 EA Serial/Parallel Printer Interface Module For Printer Connection (Silent Knight 5824).....	312.12	30.61
				28 46 13 31-1792 SK Compatible Addressable Device <small>(28 46 13 31-1766)</small>		
				28 46 13 31-1793 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature (Silent Knight SK-ACCLIMATE).....	165.72	45.92
				28 46 13 31-1794 EA Reflected Beam Smoke Detector Without Test Feature (Silent Knight SK-BEAM).....	927.59	45.92
				28 46 13 31-1795 EA Reflected Beam Smoke Detector With Test Feature (Silent Knight SK-BEAM-T).....	1,051.12	45.92
				28 46 13 31-1796 EA Reflected Beam Smoke Detector, SK Protocol (Silent Knight OSI-RI-SK).....	1,185.09	45.92
				28 46 13 31-1797 EA Supervised Control Module (Silent Knight SK-CONTROL).....	164.09	45.92
				28 46 13 31-1798 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	486.71	61.22
				28 46 13 31-1799 EA Photoelectric Duct Smoke Detector With Extended Air Speed Range (Silent Knight SK-DUCT).....	264.29	45.92
				28 46 13 31-1800 EA Four Criteria Fire And Carbon Monoxide Detector (Silent Knight SK-FIRE-CO).....	238.82	45.92
				28 46 13 31-1801 EA Four Criteria Fire And Carbon Monoxide Detector, White (Silent Knight SK-FIRE-CO-W).....	266.34	45.92
				28 46 13 31-1802 EA Fixed Thermal Detector (135°F) (Silent Knight SK-HEAT).....	150.96	45.92
				28 46 13 31-1803 EA Fixed Thermal Detector (135°F), White (Silent Knight SK-HEAT-W).....	155.15	45.92
				28 46 13 31-1804 EA Fixed Rate Of Rise Detector (Silent Knight SK-HEAT-ROR).....	152.60	45.92
				28 46 13 31-1805 EA Fixed Rate Of Rise Detector, White (Silent Knight SK-HEAT-ROR-W).....	155.15	45.92
				28 46 13 31-1806 EA Fixed High Temperature Heat Detector (190°F) (Silent Knight SK-HEAT-HT).....	150.96	45.92
				28 46 13 31-1807 EA Fixed High Temperature Heat Detector (190°F), White (Silent Knight SK-HEAT-HT-W).....	155.15	45.92
				28 46 13 31-1808 EA Fault Isolator Module (Silent Knight SK-ISO).....	150.96	45.92
				28 46 13 31-1809 EA Mini Monitor Module (Silent Knight SK-MINIMON).....	139.45	45.92
				28 46 13 31-1810 EA Monitor Module (Silent Knight SK-MONITOR).....	147.96	45.92
				28 46 13 31-1811 EA Dual Input Monitor Module (Silent Knight SK-MONITOR-2).....	190.38	45.92
				28 46 13 31-1812 EA 10 Input Monitor Module (Silent Knight SK-MON-10).....	548.47	61.22
				28 46 13 31-1813 EA Photoelectric Smoke Detector (Silent Knight SK-PHOTO).....	154.24	45.92
				28 46 13 31-1814 EA Photoelectric Smoke Detector, White (Silent Knight SK-PHOTO-W).....	162.86	45.92
				28 46 13 31-1815 EA Photoelectric Detector With Remote Test Capability (Silent Knight SK-PHOTO-R).....	156.70	45.92
				28 46 13 31-1816 EA Photoelectric Detector With Remote Test Capability, White (Silent Knight SK-PHOTO-R-W).....	165.43	45.92
				28 46 13 31-1817 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F) (Silent Knight SK-PHOTO-T).....	160.81	45.92
				28 46 13 31-1818 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F), White (Silent Knight SK-PHOTO-T-W).....	169.53	45.92
				28 46 13 31-1819 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature, White (Silent Knight SK-PTIR-W).....	179.82	45.92
				28 46 13 31-1820 EA Addressable Single Action Pull Station (Silent Knight SK-PULL-SA).....	144.28	30.61

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
28 46 13 31-1821	EA	Addressable Dual Action Pull Station (Silent Knight SK-PULL-DA)		144.28	30.61
28 46 13 31-1822	EA	Addressable Relay Module (Silent Knight SK-RELAY)		133.48	30.61
28 46 13 31-1823	EA	Addressable Six Relay Control Module (Silent Knight SK-RELAY-6)		474.03	61.22
28 46 13 31-1824	EA	Addressable Dual Relay/Monitor Module (Silent Knight SK-RELAYMON-2)		297.13	45.92
28 46 13 31-1825	EA	Addressable Zone Interface Module (Silent Knight SK-ZONE)		177.24	45.92
28 46 13 31-1826	EA	Six Zone Interface Module (Silent Knight SK-ZONE-6)		570.65	61.22
28 46 13 31-1827		SK Bases <small>(28 46 13 31-1766)</small>			
28 46 13 31-1828	EA	6" Mounting Base (Silent Knight B210LP)		44.15	15.31
28 46 13 31-1829	EA	4" Flangeless Mounting Base (Silent Knight B501)		46.90	15.31
28 46 13 31-1830	EA	Intelligent Sounder Base (Silent Knight B200S)		89.73	15.31
28 46 13 31-1831	EA	Low-Frequency Intelligent Sounder Base (Silent Knight B200-LF)		124.24	15.31
28 46 13 31-1832	EA	Relay Base (Silent Knight B224RB)		73.99	15.31
28 46 13 31-1833	EA	Isolator Base (Silent Knight B224BI)		73.13	15.31
28 46 13 31-1834		SD Compatible Addressable Device <small>(28 46 13 31-1766)</small>			
28 46 13 31-1835	EA	Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)		42.43	15.31
28 46 13 31-1836	EA	Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)		56.86	15.31
28 46 13 31-1837	EA	6" Addressable Relay Base (Silent Knight SD505-6RB)		153.42	15.31
28 46 13 31-1838	EA	6" Addressable Sounder Base (Silent Knight SD505-6SB)		158.83	15.31
28 46 13 31-1839	EA	Addressable Input Module (Silent Knight SD500-AIM)		257.29	45.92
28 46 13 31-1840	EA	Addressable Notification Module (Silent Knight SD500-ANM)		246.23	45.92
28 46 13 31-1841	EA	Addressable Relay Module (Silent Knight SD500-ARM)		265.35	45.92
28 46 13 31-1842		System Expanders <small>(28 46 13 31-1766)</small>			
28 46 13 31-1843	EA	SLC Expander For IDP Or SK Devices (Silent Knight 6815)		543.44	61.22
28 46 13 31-1844	EA	SLC Expander For SD Devices (Silent Knight 5815XL)		479.65	61.22
28 46 13 31-1845	EA	6A Power Supply With 6 Flexput Circuits And 2 Form C Relays (Silent Knight RPS-1000)		846.78	30.61
28 46 13 31-1846	EA	6 AMP NAC Power Expander With 4 Power-Limited Output Ckts (Silent Knight 5496)		597.72	91.83
28 46 13 31-1847		Miscellaneous Accessories <small>(28 46 13 31-1766)</small>			
28 46 13 31-1848	EA	Remote Battery Box Accessory Cabinet (Silent Knight RBB)		144.98	30.61
28 46 13 31-1849		Silent Knight Fire Alarm <small>(28 46 13 31-0972)</small>			
28 46 13 31-1850	EA	Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)		3,970.17	306.11
28 46 13 31-1851	EA	Supervised Remote Command Unit (Silent Knight EVS-RCU)		1,673.55	183.66
28 46 13 31-1852	EA	Voice Evacuation System (Silent Knight SKE-450)		1,954.67	122.44
28 46 13 31-1853	EA	Fire Fighters Telephone (Silent Knight SK-FFT)		1,631.19	122.44
28 46 13 31-1854	EA	Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)		1,763.11	183.66
28 46 13 31-1855	EA	Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)		1,255.34	122.44
28 46 13 31-1856	EA	Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)		972.78	122.44
28 46 13 31-1857	EA	Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)		846.53	122.44
28 46 13 31-1858	EA	Ionization Smoke Detector (Silent Knight SK-ION)		173.24	45.92
28 46 13 31-1859	EA	Sounder Base (Silent Knight B200SR)		92.70	15.31
28 46 13 31-1860	EA	Intelligent Sounder Base (Silent Knight B200S)		97.74	15.31
28 46 13 31-1861	EA	Isolator Base (Silent Knight B224BI)		78.45	15.31
28 46 13 31-1862	EA	Relay Base (Silent Knight B224RB)		79.28	15.31
28 46 13 31-1863	EA	Analog Ionization Smoke Detector (Silent Knight SD505-AIS)		170.02	45.92
28 46 13 31-1864	EA	Addressable Heat Sensor (Silent Knight SD505-AHS)		184.35	45.92
28 46 13 31-1865	EA	Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)		160.63	45.92
28 46 13 31-1866	EA	6" Isolator Base (Silent Knight SD505-6IB)		96.91	15.31
28 46 13 31-1867	EA	SLC Annunciator Driver Module (Silent Knight SD500-LED)		637.23	91.83
28 46 13 31-1868	EA	Loop Isolation Module (Silent Knight SD500-LIM)		165.67	45.92
28 46 13 31-1869	EA	Addressable Mini Input Module (Silent Knight SD500-MIM)		127.52	30.61
28 46 13 31-1870	EA	Single Action Addressable Pull Station (Silent Knight SD500-PS)		159.81	30.61
28 46 13 31-1871	EA	Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)		153.34	30.61
28 46 13 31-1872	EA	Back Box (Silent Knight SK-PSSMBB)		76.04	24.49
28 46 13 31-1873	EA	Smoke Detector Module (Silent Knight SD500-SDM)		182.33	45.92
28 46 13 31-1874	EA	Addressable Duct Housing (Silent Knight SD505-DUCT)		318.73	45.92
28 46 13 31-1875	EA	Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)		358.40	45.92
28 46 13 31-1876	EA	Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)		164.00	45.92
28 46 13 31-1877	EA	Intelligent Power Module (Silent Knight 5895XL)		913.55	122.44
28 46 13 31-1878	EA	Addressable Pull Station (Silent Knight SK-PULL-DA/SA)		153.34	30.61
28 46 13 31-1879	EA	Digital Fire Communicator with Cabinet (Silent Knight SK-5104)		526.55	91.83
28 46 13 31-1880	EA	Communicator (Silent Knight IPGSM-4G)		739.77	61.22
28 46 13 31-1881	EA	Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)		1,182.95	122.44
28 46 13 31-1882	EA	10 Zone Expander (Silent Knight SK-5217)		329.38	30.61
28 46 13 31-1883	EA	Remote Annunciator (Silent Knight SK-5235)		346.42	61.22
28 46 13 31-1884	EA	Status Display Module (Silent Knight 5280)		107.39	30.61
28 46 13 31-1885	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)		701.57	122.44
28 46 13 31-1886	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)		714.04	122.44
28 46 13 31-1887	EA	Dress Panel (Silent Knight SK-DP2/4)		136.74	30.61
28 46 13 31-1888	EA	Class A Converter (Silent Knight SK-CAC4)		337.90	45.92
28 46 13 31-1889	EA	Transmitter Module (Silent Knight SK-4XTM)		190.42	45.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1890 EA LED Interface Module (Silent Knight SK-4XLM).....	177.48	45.92
28 46 13 31-1891 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	172.73	30.61
28 46 13 31-1892 EA Remote Annunciator (Silent Knight SK-RZA4)	177.48	45.92
28 46 13 31-1893 EA Zone Relay Module (Silent Knight SK-4XZM).....	188.80	45.92
28 46 13 31-1894 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	615.84	122.44
28 46 13 31-1895 EA Manual Pull Station (single action) (Silent Knight PS-SATK).....	92.51	30.61
28 46 13 31-1896 EA Manual Pull Station (dual action) (Silent Knight PS-DATK)	98.76	30.61
28 46 13 31-1897 EA Manual Pull Station (dual action) (Silent Knight PS-DA).....	97.00	30.61
28 46 13 31-1898 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH).....	88.44	30.61
28 46 13 31-1899 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB).....	180.14	36.73
28 46 13 31-1900 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495).....	604.50	91.83
28 46 13 31-1901 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499).....	673.08	91.83
28 46 13 31-1902 EA Detector (Silent Knight IDP-PhotoR).....	216.21	45.92
28 46 13 31-1903 EA Monitoring Module (Silent Knight IDP).....	222.76	45.92
28 46 13 31-1904 EA I/O Input-Output Module (Silent Knight SK-2880)	519.48	30.61
28 46 13 31-1905 EA Remote Annunciator (Silent Knight RA-2000)	1,492.96	91.83
28 46 13 31-1906 EA Power Supply (Silent Knight 5195/96).....	912.26	30.61
28 46 13 31-1907 EA 8 Zone Expander (Silent Knight SK-5210).....	715.87	30.61
28 46 13 31-1908 EA LCD Remote Annunciator (Silent Knight SK-5230).....	330.64	61.22
28 46 13 31-1909 EA Ionization Smoke Detector (Silent Knight SK-ION).....	173.24	45.92
28 46 13 31-1910 EA Addressable Relay Module (Silent Knight IDP-Relay)	190.03	45.92
28 46 13 31-1911 EA Telephone Line Monitor (Silent Knight SK-7150).....	120.14	30.61
28 46 13 31-1912 EA Serial Driver Board (Silent Knight SK-2884)	206.55	30.61
28 46 13 31-1913 EA Smoke Detector Base (Silent Knight IDP-6AB).....	63.34	15.31
28 46 13 31-1914 EA Mini Input Module (Silent Knight IDP-MINIMON).....	159.42	30.61
28 46 13 31-1915 EA Status Display Module (Silent Knight SK-4180).....	532.57	30.61
28 46 13 31-1916 EA 8-Channel Digital Communicator (Silent Knight SK-1420).....	323.08	30.61
28 46 13 31-1917 EA Serial Parallel Module (Silent Knight SK-4824).....	296.89	30.61
28 46 13 31-1918 EA Power Supply (Silent Knight SK-5197 / SK-5198).....	1,043.20	30.61
28 46 13 31-1919 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	1,816.05	122.44
28 46 13 31-1920 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	222.76	45.92
28 46 13 31-1921 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo).....	190.03	45.92
28 46 13 31-1922	Alerton Fire Alarm <small>(28 46 13 31)</small>	
28 46 13 31-1923 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	639.92	9.18
28 46 13 31-1924	Cooper Fire Alarm <small>(28 46 13 31)</small>	
28 46 13 31-1925 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R).....	207.68	30.61
28 46 13 31-1926 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	4,557.77	52.04
28 46 13 31-1927 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	6,013.76	52.04
28 46 13 31-1928 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	2,188.32	61.22
28 46 13 31-1929 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	2,201.26	61.22
28 46 13 31-1930 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	2,201.26	61.22
28 46 13 31-1931 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001).....	1,628.57	61.22
28 46 13 31-1932 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	1,628.57	61.22
28 46 13 31-1933 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	1,628.57	61.22
28 46 13 31-1934 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	2,201.26	61.22
28 46 13 31-1935 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006).....	2,201.26	61.22
28 46 13 31-1936 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007).....	2,201.26	61.22
28 46 13 31-1937 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008).....	2,201.26	61.22
28 46 13 31-1938 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002).....	2,201.26	61.22
28 46 13 31-1939 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	2,536.14	61.22
28 46 13 31-1940 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	2,354.95	61.22
28 46 13 31-1941 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	2,354.95	61.22
28 46 13 31-1942 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	2,354.95	61.22
28 46 13 31-1943	Light Engineered Displays Message Boards <small>(28 46 13 31)</small>	
28 46 13 31-1944 EA Two Message Sign, Announcement And Evacuate (LED SP-2/MNS).....	938.46	36.73
28 46 13 31-1945 EA Four Message Sign, Fire, Weather, Announcement, E Voltuate (LED SP-4).....	827.12	36.73
28 46 13 31-1946	Safety Technology International Fire Alarm <small>(28 46 13 31)</small>	
28 46 13 31-1947	Enclosures <small>(28 46 13 31-1946)</small>	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 46 13 31-1948	EA	6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF060604-O).....	166.54	18.37
28 46 13 31-1949	EA	6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF060604-W).....	218.69	18.37
28 46 13 31-1950	EA	8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080604-O).....	170.01	18.37
28 46 13 31-1951	EA	8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080604-W).....	219.85	18.37
28 46 13 31-1952	EA	8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080804-O).....	174.65	18.37
28 46 13 31-1953	EA	8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080804-W).....	254.62	18.37
28 46 13 31-1954	EA	10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF100806-O).....	182.76	18.37
28 46 13 31-1955	EA	10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF100806-W).....	253.46	18.37
28 46 13 31-1956	EA	12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF121006-O).....	196.67	18.37
28 46 13 31-1957	EA	12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF121006-W).....	275.48	18.37
28 46 13 31-1958	EA	14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF141206-O).....	234.92	18.37
28 46 13 31-1959	EA	14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141206-W).....	358.93	18.37
28 46 13 31-1960	EA	14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF141208-O).....	253.46	18.37
28 46 13 31-1961	EA	14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141208-W).....	453.97	18.37
28 46 13 31-1962	EA	16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF161408-O).....	269.69	18.37
28 46 13 31-1963	EA	16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF161408-W).....	467.87	18.37
28 46 13 31-1964	EA	18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF181610-O).....	321.84	18.37
28 46 13 31-1965	EA	18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF181610-W).....	480.62	18.37
28 46 13 31-1966	EA	20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF201610-O).....	467.87	18.37
28 46 13 31-1967	EA	20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF201610-W).....	697.35	18.37
28 46 13 31-1968	EA	6" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP060605-O).....	122.50	18.37
28 46 13 31-1969	EA	6" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP060605-T).....	134.09	18.37
28 46 13 31-1970	EA	8" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080605-O).....	127.71	18.37
28 46 13 31-1971	EA	8" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080605-T).....	137.56	18.37
28 46 13 31-1972	EA	8" Height x 8" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080805-O).....	132.35	18.37
28 46 13 31-1973	EA	8" Height x 8" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080805-T).....	143.94	18.37
28 46 13 31-1974	EA	10" Height x 8" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP100806-O).....	134.09	18.37
28 46 13 31-1975	EA	10" Height x 8" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP100806-T).....	157.84	18.37
28 46 13 31-1976	EA	10" Height x 8" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP100807-O).....	141.04	18.37
28 46 13 31-1977	EA	10" Height x 8" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP100807-T).....	162.48	18.37
28 46 13 31-1978	EA	10" Height x 10" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP101006-O).....	147.41	18.37
28 46 13 31-1979	EA	10" Height x 10" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP101006-T).....	165.38	18.37
28 46 13 31-1980	EA	12" Height x 10" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP121007-O).....	149.15	18.37
28 46 13 31-1981	EA	12" Height x 10" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP121007-T).....	171.17	18.37
28 46 13 31-1982	EA	14" Height x 12" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP141207-O).....	175.81	18.37
28 46 13 31-1983	EA	14" Height x 12" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP141207-T).....	219.85	18.37
28 46 13 31-1984	EA	16" Height x 14" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP161409-O).....	194.35	18.37
28 46 13 31-1985	EA	16" Height x 14" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP161409-T).....	263.89	18.37
28 46 13 31-1986	EA	18" Height x 16" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP181604-O).....	216.37	18.37
28 46 13 31-1987	EA	18" Height x 16" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP181604-T).....	283.59	18.37
28 46 13 31-1988	EA	18" Height x 16" Width x 11" Depth, Opaque, Polycarbonate Enclosure (STI EP181611-O).....	246.51	18.37
28 46 13 31-1989	EA	18" Height x 16" Width x 11" Depth, Tinted, Polycarbonate Enclosure (STI EP181611-T).....	333.43	18.37
28 46 13 31-1990	EA	20" Height x 16" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP201608-O).....	396.02	18.37
28 46 13 31-1991	EA	20" Height x 16" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP201608-T).....	414.56	18.37
28 46 13 31-1992	EA	24" Height x 24" Width x 10" Depth, Opaque, Polycarbonate Enclosure (STI EP242410-O).....	600.00	18.37
28 46 13 31-1993	EA	24" Height x 24" Width x 10" Depth, Tinted, Polycarbonate Enclosure (STI EP242410-T).....	696.20	18.37

28 46 13 31-1994 STI® Fire Alarm Devices (28 46 13 31-1946)

28 46 13 31-1995	EA	Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100).....	200.73	18.37
		Note: Includes 9 Volt DC self contained battery.		
28 46 13 31-1996	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130).....	219.85	18.37
28 46 13 31-1997	EA	Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200).....	126.26	18.37
28 46 13 31-1998	EA	Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D).....	127.42	18.37
		Note: For surface mounted horn strobes.		
28 46 13 31-1999	EA	Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E).....	112.35	18.37
28 46 13 31-2000	EA	Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D).....	127.42	18.37
		Note: For surface mounted strobe.		
28 46 13 31-2001	EA	Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E).....	101.05	18.37
28 46 13 31-2002	EA	NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....	248.83	18.37
28 46 13 31-2003	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230).....	163.06	18.37
		Note: For surface mounted pull stations.		
28 46 13 31-2004	EA	Backplate For Polycarbonate Cover (STI-1280).....	73.35	18.37
28 46 13 31-2005	EA	Conduit Gasket For Polycarbonate Cover (STI-3003).....	50.64	18.37
28 46 13 31-2006	EA	Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100).....	74.63	18.37
28 46 13 31-2007	EA	Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150).....	183.34	18.37
28 46 13 31-2008	EA	8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-751A).....	150.31	18.37
28 46 13 31-2009	EA	Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100).....	108.59	18.37
28 46 13 31-2010	EA	Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....	102.21	18.37
28 46 13 31-2011	EA	Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602).....	98.45	18.37
28 46 13 31-2012	EA	Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604).....	102.21	18.37
28 46 13 31-2013	EA	Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605).....	98.45	18.37
28 46 13 31-2014	EA	Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609).....	102.21	18.37
28 46 13 31-2015	EA	Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	98.45	18.37
28 46 13 31-2016	EA	Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625).....	201.89	18.37
28 46 13 31-2017	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	90.85	18.37
28 46 13 31-2018	EA	Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R).....	106.29	18.37
28 46 13 31-2019	EA	Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706).....	142.78	18.37
28 46 13 31-2020	EA	Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	142.78	18.37
28 46 13 31-2021	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708).....	101.05	18.37
28 46 13 31-2022	EA	Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	101.05	18.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2023	EA			White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	90.85	18.37
28 46 13 31-2024	EA			Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	101.05	18.37
28 46 13 31-2025	EA			White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	101.05	18.37
28 46 13 31-2026	EA			Yellow, High Threat, Push Button Station (STI SS-2201).....	129.59	9.18
28 46 13 31-2027	EA			Gasket Kit For STI Covers (STI SUB-121)	53.59	
28 46 13 31-2028	EA			Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT)	263.89	18.37
28 46 13 31-2029	EA			No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV)	140.46	18.37
28 46 13 31-2030	EA			No Cover, Push And Key-To-Rest Button, Emergency Label, Blue Stopper Station (STI SS-2400EM).....	140.46	18.37
28 46 13 31-2031	EA			Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM).....	263.89	18.37
28 46 13 31-2032	EA			Flush Mounted, Weather Stopper II (STI-1250)	151.76	18.37
28 46 13 31-2033	EA			Flush Mounted, Clear, Universal Stopper (STI-13000NC).....	98.45	18.37
28 46 13 31-2034	EA			Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR)	174.07	18.37
28 46 13 31-2035	EA			Surface Mounted, Clear, Universal Stopper (STI-13200NC)	120.18	18.37
28 46 13 31-2036	EA			Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR).....	131.77	18.37
28 46 13 31-2037	EA			Surface Mounted, No Label, White, Universal Stopper (STI-13210NW).....	143.94	18.37
28 46 13 31-2038	EA			Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY)	143.94	18.37
28 46 13 31-2039	EA			Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13202FR).....	195.51	18.37
28 46 13 31-2040	EA			Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY)	207.10	18.37
28 46 13 31-2041	EA			Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR)	247.67	18.37
28 46 13 31-2042	EA			Stopper II, Weather Gasket (STI-3002)	49.42	18.37
28 46 13 31-2043	EA			Large, Break Glass Stopper (STI-4100)	142.78	18.37
28 46 13 31-2044	EA			Stopper "G" Standard Break Glass Cover (STI-6100)	137.56	18.37
28 46 13 31-2045	EA			Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A).....	132.64	18.37
28 46 13 31-2046	EA			Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530).....	365.88	18.37
28 46 13 31-2047	EA			Heated, Metal, Protective Cabinet (STI-7560AH).....	5,205.83	18.37
28 46 13 31-2048	EA			Stainless Steel Guard (STI-9604SS).....	93.52	18.37
28 46 13 31-2049	EA			5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621).....	83.38	18.37
28 46 13 31-2050				System Sensor Fire Alarm (28 46 13 31)		
28 46 13 31-2051				Smoke Detectors (28 46 13 31-2050)		
28 46 13 31-2052	EA			Beam Detector Heater Kit (System Sensor BEAMHK)	65.23	6.12
28 46 13 31-2053	EA			Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	277.77	6.12
				Note: Four used with long range kit.		
28 46 13 31-2054	EA			Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	329.62	61.22
28 46 13 31-2055	EA			Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	238.53	61.22
28 46 13 31-2056	EA			Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK).....	192.10	61.22
28 46 13 31-2057	EA			Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B).....	181.23	45.92
28 46 13 31-2058	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	178.45	45.92
28 46 13 31-2059	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B).....	190.86	45.92
28 46 13 31-2060	EA			Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B).....	184.33	45.92
28 46 13 31-2061	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B)	190.36	45.92
28 46 13 31-2062	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	195.68	45.92
28 46 13 31-2063	EA			Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	266.55	45.92
28 46 13 31-2064	EA			Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151)	155.05	30.61
28 46 13 31-2065	EA			Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	177.70	30.61
				Note: Requires B100 series base.		
28 46 13 31-2066	EA			Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	318.76	15.31
28 46 13 31-2067	EA			Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK).....	107.11	15.31
28 46 13 31-2068	EA			Four Wire, Low Profile, Plug In Detector (System Sensor 2D51).....	204.04	45.92
28 46 13 31-2069				Duct Smoke Detectors (28 46 13 31-2050)		
28 46 13 31-2070	EA			Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2).....	403.79	45.92
28 46 13 31-2071	EA			Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120).....	400.22	45.92
28 46 13 31-2072	EA			Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	526.78	52.04
28 46 13 31-2073	EA			Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S)	263.64	30.61
28 46 13 31-2074	EA			Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL).....	71.36	9.18
28 46 13 31-2075	EA			Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	226.39	24.49
28 46 13 31-2076	EA			Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW)	369.61	30.61
28 46 13 31-2077	EA			1' Steel Sampling Tube (System Sensor DST1)	39.85	12.24
28 46 13 31-2078	EA			1.5' Steel Sampling Tube (System Sensor DST1.5).....	43.90	12.24
28 46 13 31-2079	EA			3' Steel Sampling Tube (System Sensor DST3).....	50.03	12.24
28 46 13 31-2080	EA			5' Steel Sampling Tube (System Sensor DST5).....	58.81	15.31
28 46 13 31-2081	EA			10' Steel Sampling Tube (System Sensor DST10).....	96.15	18.37
28 46 13 31-2082	EA			1' Steel, Exhaust Tube Duct (System Sensor ETX).....	45.57	12.24
28 46 13 31-2083	EA			Remote Test Station For Duct Smoke Detector (System Sensor RTS151).....	106.81	15.31
28 46 13 31-2084	EA			Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	238.74	
28 46 13 31-2085	EA			Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	256.60	
28 46 13 31-2086				Heat Detectors (28 46 13 31-2050)		
28 46 13 31-2087	EA			Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	120.71	45.92
28 46 13 31-2088	EA			Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	120.05	45.92
28 46 13 31-2089	EA			Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	141.24	45.92
28 46 13 31-2090	EA			Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	141.24	45.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2091 EA Dual Circuit, 135 Degree F, Fixed Temperature Heat Detector (System Sensor 5623).....	149.86	45.92
28 46 13 31-2092 EA Dual Circuit, 194 Degree F, Fixed Temperature Heat Detector (System Sensor 5624).....	149.86	45.92
28 46 13 31-2093 Horns <small>(28 46 13 31-2050)</small>		
28 46 13 31-2094 EA Red, Mini Horn (System Sensor MHR).....	129.63	45.92
28 46 13 31-2095 EA White, Mini Horn (System Sensor MHW).....	129.63	45.92
28 46 13 31-2096 EA White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	131.48	45.92
28 46 13 31-2097 EA Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	166.35	52.04
28 46 13 31-2098 EA Red, Indoor, Wall Mounted, Horn (System Sensor HRL).....	131.48	45.92
28 46 13 31-2099 EA Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	181.23	45.92
28 46 13 31-2100 EA White, Indoor, Wall Mounted, Compact Horn (System Sensor HGRL).....	132.08	45.92
28 46 13 31-2101 EA Red, Indoor, Wall Mounted, Compact Horn (System Sensor HGWL).....	132.08	45.92
28 46 13 31-2102 Wall Mounted Horns/Strobes <small>(28 46 13 31-2050)</small>		
28 46 13 31-2103 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	181.13	45.92
28 46 13 31-2104 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	224.49	45.92
28 46 13 31-2105 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	270.78	52.04
28 46 13 31-2106 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	264.23	52.04
28 46 13 31-2107 EA Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	277.03	52.04
28 46 13 31-2108 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	269.88	52.04
28 46 13 31-2109 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	255.89	52.04
28 46 13 31-2110 EA Outdoor, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	222.51	45.92
28 46 13 31-2111 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	176.97	45.92
28 46 13 31-2112 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	181.13	45.92
28 46 13 31-2113 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	226.10	45.92
28 46 13 31-2114 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	261.85	52.04
28 46 13 31-2115 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	264.23	52.04
28 46 13 31-2116 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	224.49	45.92
28 46 13 31-2117 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	278.82	52.04
28 46 13 31-2118 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	255.89	52.04
28 46 13 31-2119 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	176.07	45.92
28 46 13 31-2120 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	218.64	45.92
28 46 13 31-2121 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	230.75	45.92
28 46 13 31-2122 EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	266.38	52.04
28 46 13 31-2123 EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	249.94	52.04
28 46 13 31-2124 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	218.64	45.92
28 46 13 31-2125 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4WHK).....	285.27	52.04
28 46 13 31-2126 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	264.82	52.04
28 46 13 31-2127 EA Red, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2RL-LF).....	270.43	45.92
28 46 13 31-2128 EA White, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2WL-LF).....	270.43	45.92
28 46 13 31-2129 EA Red, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GRL).....	180.54	45.92
28 46 13 31-2130 EA White, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GWL).....	180.54	45.92
28 46 13 31-2131 Ceiling Mounted Horns/Strobes <small>(28 46 13 31-2050)</small>		
28 46 13 31-2132 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL).....	184.11	45.92
28 46 13 31-2133 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	227.72	45.92
28 46 13 31-2134 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	261.85	52.04
28 46 13 31-2135 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	254.11	52.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2136	EA		Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	216.40	45.92
28 46 13 31-2137	EA		White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	184.11	45.92
28 46 13 31-2138	EA		White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	227.72	45.92
28 46 13 31-2139	EA		Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	261.85	52.04
28 46 13 31-2140	EA		Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	227.72	45.92
28 46 13 31-2141	EA		Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	254.11	52.04
28 46 13 31-2142	EA		Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	214.78	45.92
28 46 13 31-2143	EA		Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL).....	220.13	45.92
28 46 13 31-2144	EA		Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	230.75	45.92
28 46 13 31-2145	EA		White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	220.13	45.92
28 46 13 31-2146			Wall Mounted Strobes <small>(28 46 13 31-2050)</small>		
28 46 13 31-2147	EA		White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW).....	84.07	15.31
28 46 13 31-2148	EA		White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW).....	164.27	15.31
28 46 13 31-2149	EA		Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL).....	162.97	45.92
28 46 13 31-2150	EA		Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH).....	194.99	45.92
28 46 13 31-2151	EA		Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK).....	237.50	52.04
28 46 13 31-2152	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	234.75	52.04
28 46 13 31-2153	EA		Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	234.46	52.04
28 46 13 31-2154	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R).....	205.29	52.04
28 46 13 31-2155	EA		Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	161.49	45.92
28 46 13 31-2156	EA		White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL).....	162.38	45.92
28 46 13 31-2157	EA		White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT).....	176.37	45.92
28 46 13 31-2158	EA		White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT).....	203.46	45.92
28 46 13 31-2159	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH).....	213.16	45.92
28 46 13 31-2160	EA		White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT).....	211.54	45.92
28 46 13 31-2161	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P).....	211.54	45.92
28 46 13 31-2162	EA		Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P).....	238.03	52.04
28 46 13 31-2163	EA		White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK).....	235.35	52.04
28 46 13 31-2164	EA		White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P).....	237.44	52.04
28 46 13 31-2165	EA		Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R).....	228.65	52.04
28 46 13 31-2166	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK).....	232.97	52.04
28 46 13 31-2167	EA		White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P).....	234.16	52.04
28 46 13 31-2168	EA		White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P).....	161.19	45.92
28 46 13 31-2169	EA		Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	28.61	6.12
28 46 13 31-2170	EA		Blue, Wall Strobe Lens Attachment (System Sensor LENS-B).....	28.61	6.12
28 46 13 31-2171	EA		Green, Wall Strobe Lens Attachment (System Sensor LENS-G).....	28.61	6.12
28 46 13 31-2172	EA		Red, Wall Strobe Lens Attachment (System Sensor LENS-R).....	28.61	6.12
28 46 13 31-2173	EA		Red, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGRL).....	165.36	45.92
28 46 13 31-2174	EA		White, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGWL)	162.08	45.92
28 46 13 31-2175	EA		L-Series, Amber, Wall Strobe Lens Attachment (System Sensor LENS-A2, AC2)	28.61	6.12
28 46 13 31-2176	EA		L-Series, Blue, Wall Strobe Lens Attachment (System Sensor LENS-B2, BC2).....	28.61	6.12
28 46 13 31-2177	EA		L-Series, Green, Wall Strobe Lens Attachment (System Sensor LENS-G2, GC2).....	28.61	6.12
28 46 13 31-2178	EA		L-Series, Red, Wall Strobe Lens Attachment (System Sensor LENS-R2, RC2).....	28.61	6.12
28 46 13 31-2179	EA		Red, 8 Multi-tone, 12 VDC, 1575CD, Wall Mounted Strobe (Wheelock MT-121575W-FR).....	241.66	45.92
28 46 13 31-2180	EA		White, 8 Multi-tone, 12 VDC, 1575CD, No Lettering, Wall Mounted Strobe (Wheelock MT-121575W-NW).....	241.66	45.92
28 46 13 31-2181	EA		L-Series, White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-CLR-ALERT).....	239.22	52.04

28 46 13 31-2182 **Ceiling Mounted Strobes** (28 46 13 31-2050)

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2183 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL).....	166.25	45.92
28 46 13 31-2184 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	197.74	45.92
28 46 13 31-2185 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	237.50	52.04
28 46 13 31-2186 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	237.50	52.04
28 46 13 31-2187 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL).....	166.25	45.92
28 46 13 31-2188 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT).....	178.16	45.92
28 46 13 31-2189 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	216.40	45.92
28 46 13 31-2190 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK).....	235.35	52.04
28 46 13 31-2191 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	232.97	52.04
28 46 13 31-2192 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	192.13	45.92
28 46 13 31-2193 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	28.61	6.12
28 46 13 31-2194 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	28.61	6.12
28 46 13 31-2195 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	28.61	6.12
28 46 13 31-2196 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	28.61	6.12
28 46 13 31-2197 Wall Mounted Speakers (28 46 13 31-2050)		
28 46 13 31-2198 EA 24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	438.32	45.92
28 46 13 31-2199 EA Red, Wall Mounted Speaker (System Sensor SPRL).....	138.86	45.92
28 46 13 31-2200 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	225.78	45.92
28 46 13 31-2201 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	186.24	52.04
28 46 13 31-2202 EA Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	160.60	45.92
28 46 13 31-2203 EA White, Wall Mounted Speaker (System Sensor SPWL).....	138.86	45.92
28 46 13 31-2204 EA White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	236.84	52.04
28 46 13 31-2205 EA White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	157.20	45.92
28 46 13 31-2206 Ceiling Mounted Speakers (28 46 13 31-2050)		
28 46 13 31-2207 EA Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	135.59	45.92
28 46 13 31-2208 EA Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	216.31	45.92
28 46 13 31-2209 EA Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV).....	160.60	45.92
28 46 13 31-2210 EA White, Ceiling Mounted Speaker (System Sensor SPCWL).....	138.27	45.92
28 46 13 31-2211 EA White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	172.72	45.92
28 46 13 31-2212 EA White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	238.03	52.04
28 46 13 31-2213 Wall Mounted Speakers/Strobes (28 46 13 31-2050)		
28 46 13 31-2214 EA White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	162.18	15.31
28 46 13 31-2215 EA White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL).....	80.50	15.31
28 46 13 31-2216 EA Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	228.76	45.92
28 46 13 31-2217 EA Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	247.25	45.92
28 46 13 31-2218 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	329.65	52.04
28 46 13 31-2219 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	329.72	52.04
28 46 13 31-2220 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	280.30	52.04
28 46 13 31-2221 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	226.08	45.92
28 46 13 31-2222 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	239.00	45.92
28 46 13 31-2223 EA White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	229.95	45.92
28 46 13 31-2224 EA White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	333.89	52.04
28 46 13 31-2225 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	228.76	45.92
28 46 13 31-2226 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	274.64	45.92
28 46 13 31-2227 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	274.64	45.92
28 46 13 31-2228 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	345.79	52.04
28 46 13 31-2229 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	328.53	52.04
28 46 13 31-2230 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	224.89	45.92
28 46 13 31-2231 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	264.93	45.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2232 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	264.93	45.92
28 46 13 31-2233 Ceiling Mounted Speakers/Strobes (28 46 13 31-2050)		
28 46 13 31-2234 EA Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL).....	212.69	45.92
28 46 13 31-2235 EA Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	250.01	45.92
28 46 13 31-2236 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	239.00	45.92
28 46 13 31-2237 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL).....	212.69	45.92
28 46 13 31-2238 EA White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT).....	227.57	45.92
28 46 13 31-2239 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	274.64	45.92
28 46 13 31-2240 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	347.58	52.04
28 46 13 31-2241 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	274.64	45.92
28 46 13 31-2242 EA White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	334.48	52.04
28 46 13 31-2243 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	345.79	52.04
28 46 13 31-2244 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	212.69	45.92
28 46 13 31-2245 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	264.93	45.92
28 46 13 31-2246 EA White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	274.64	45.92
28 46 13 31-2247 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	264.93	45.92
28 46 13 31-2248 EA High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	274.39	45.92
28 46 13 31-2249 Electric Alarm Bells (28 46 13 31-2050)		
28 46 13 31-2250 EA 6" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	173.69	45.92
28 46 13 31-2251 EA 8" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	188.28	45.92
28 46 13 31-2252 EA 10" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	204.35	45.92
28 46 13 31-2253 EA 6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	184.05	46.53
28 46 13 31-2254 EA 8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	186.18	46.53
28 46 13 31-2255 EA 10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	199.65	46.53
28 46 13 31-2256 Device Bases (28 46 13 31-2050)		
28 46 13 31-2257 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	138.07	15.31
28 46 13 31-2258 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	133.61	15.31
28 46 13 31-2259 EA Intelligent Isolator Base (System Sensor B224BI).....	109.49	15.31
28 46 13 31-2260 EA Intelligent Relay Base (System Sensor B224RB).....	110.68	15.31
28 46 13 31-2261 EA Flangeless, Intelligent Detector Base (System Sensor B501).....	67.76	15.31
28 46 13 31-2262 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, Ivory (System Sensor B200S-IV).....	138.07	15.31
28 46 13 31-2263 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-IV).....	133.61	15.31
28 46 13 31-2264 EA Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR-LF).....	200.88	15.31
28 46 13 31-2265 EA Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-LF-IV).....	200.88	15.31
28 46 13 31-2266 EA Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-LF-WH).....	194.33	15.31
28 46 13 31-2267 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-WH).....	143.52	15.31
28 46 13 31-2268 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, White (System Sensor B200S-WH).....	130.93	15.31
28 46 13 31-2269 EA Intelligent Isolator Base, Ivory (System Sensor B224BI-IV).....	109.49	15.31
28 46 13 31-2270 EA Intelligent Isolator Base, White (System Sensor B224BI-WH).....	102.35	15.31
28 46 13 31-2271 EA Intelligent Relay Base, Ivory (System Sensor B224RB-IV).....	110.68	15.31
28 46 13 31-2272 EA Intelligent Relay Base, White (System Sensor B224RB-WH).....	103.84	15.31
28 46 13 31-2273 EA Flangeless, Intelligent Detector Base, Black (System Sensor B501-BL).....	67.76	15.31
28 46 13 31-2274 EA Flangeless, Intelligent Detector Base, Ivory (System Sensor B501-IV).....	67.76	15.31
28 46 13 31-2275 EA Flangeless, Intelligent Detector Base, White (System Sensor B501-WHITE).....	60.02	15.31
28 46 13 31-2276 EA Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base (System Sensor B200S-LF).....	204.45	15.31
28 46 13 31-2277 EA Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, Ivory (System Sensor B200S-LF-IV).....	204.45	15.31
28 46 13 31-2278 EA Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, White (System Sensor B200S-LF-WH).....	196.71	15.31
28 46 13 31-2279 EA 6" Intelligent Flanged Mounting Base (System Sensor B300-6).....	52.94	15.31
28 46 13 31-2280 EA 6" Intelligent Flanged Mounting Base, Ivory (System Sensor B300-6-IV).....	60.38	15.31
28 46 13 31-2281 EA Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	67.30	15.31
28 46 13 31-2282 EA Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	115.19	18.37
28 46 13 31-2283 Boxes, Plates And Decals (28 46 13 31-2050)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-2284	EA	120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	60.62	15.31
28 46	13 31-2285	EA	Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	92.88	15.31
28 46	13 31-2286	EA	White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW)	101.46	15.31
28 46	13 31-2287	EA	White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	92.88	15.31
28 46	13 31-2288	EA	Red Retrofit Plate (System Sensor RFP).....	42.42	9.18
28 46	13 31-2289	EA	White Retrofit Plate (System Sensor RFPW).....	42.06	9.18
28 46	13 31-2290	EA	Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB)	78.00	15.31
28 46	13 31-2291	EA	Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	88.24	15.31
28 46	13 31-2292	EA	Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCRL).....	61.33	15.31
28 46	13 31-2293	EA	White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCWL)	61.33	15.31
28 46	13 31-2294	EA	Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL)	52.64	15.31
28 46	13 31-2295	EA	Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL).....	59.19	15.31
28 46	13 31-2296	EA	White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL)	59.19	15.31
28 46	13 31-2297	EA	White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL).....	52.64	15.31
28 46	13 31-2298	EA	Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	56.49	15.31
28 46	13 31-2299	EA	Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	52.94	15.31
28 46	13 31-2300	EA	Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	19.05	6.12
28 46	13 31-2301	EA	Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	28.85	
28 46	13 31-2302	EA	Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	40.31	
28 46	13 31-2303	EA	White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	28.85	
28 46	13 31-2304	EA	White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	40.31	
28 46	13 31-2305	EA	Red, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2)	21.22	6.12
28 46	13 31-2306	EA	White, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2W)	21.22	6.12
28 46	13 31-2307	EA	Red, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2).....	21.22	6.12
28 46	13 31-2308	EA	White, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2W).....	21.22	6.12
28 46	13 31-2309	EA	Red, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGRL)	52.64	15.31
28 46	13 31-2310	EA	White, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGWL).....	52.64	15.31
28 46	13 31-2311	EA	Red, AGENT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AG).....	25.93	6.12
28 46	13 31-2312	EA	Red, ALERT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AL)	25.93	6.12
28 46	13 31-2313	EA	Red, EVAC Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-EV).....	25.93	6.12
28 46	13 31-2314	EA	Red, FIRE Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-F).....	25.93	6.12
28 46	13 31-2315	EA	White, AGENT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AG).....	25.93	6.12
28 46	13 31-2316	EA	White, ALERT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AL)	25.93	6.12
28 46	13 31-2317	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-EV).....	25.93	6.12
28 46	13 31-2318	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-F).....	25.93	6.12
28 46	13 31-2319	EA	Red, Plain, L-Series Wall Mounted Bezel (System Sensor BZGR-P).....	25.93	6.12
28 46	13 31-2320	EA	White, Plain, L-Series Wall Mounted Bezel (System Sensor BZGW-P).....	25.93	6.12
28 46	13 31-2321	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	25.93	6.12
28 46	13 31-2322	EA	Red, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AL).....	25.93	6.12
28 46	13 31-2323	EA	Red, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AG).....	28.43	6.12
28 46	13 31-2324	EA	Red, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AL).....	28.43	6.12
28 46	13 31-2325	EA	Red, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-EV).....	28.43	6.12
28 46	13 31-2326	EA	Red, FIRE Marking, L-Series Ceiling Mounted Bezel, Pack Of 5 (System Sensor BZRC-F).....	28.43	6.12
28 46	13 31-2327	EA	Red, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-P)	28.43	6.12
28 46	13 31-2328	EA	Red, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZR-EV).....	25.93	6.12
28 46	13 31-2329	EA	Red, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZR-F).....	25.93	6.12
28 46	13 31-2330	EA	Red, PLAIN Marking, L-Series Wall Mounted Bezel (System Sensor BZR-P).....	25.93	6.12
28 46	13 31-2331	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	25.93	6.12
28 46	13 31-2332	EA	White, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AG).....	25.93	6.12
28 46	13 31-2333	EA	White, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AL)	25.93	6.12
28 46	13 31-2334	EA	White, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AG)	28.43	6.12
28 46	13 31-2335	EA	White, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AL)	28.43	6.12
28 46	13 31-2336	EA	White, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-EV)	28.43	6.12
28 46	13 31-2337	EA	White, FIRE Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-F)	28.43	6.12
28 46	13 31-2338	EA	White, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-P).....	28.43	6.12
28 46	13 31-2339	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-EV).....	25.93	6.12
28 46	13 31-2340	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-F).....	25.93	6.12
28 46	13 31-2341	EA	Replacement Dust Cover For Low Profile Detectors (System Sensor C58-227-01).....	5.30	
28 46	13 31-2342	EA	Control Module Barrier (System Sensor CB500)	38.85	9.18
28 46	13 31-2343	EA	White Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300)	35.64	9.18
28 46	13 31-2344	EA	Black Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300-BL).....	43.32	9.18
28 46	13 31-2345	EA	PTIR Color Kit, White (System Sensor CK-300-IR)	166.02	9.18
			Note: Includes cover and trim ring		
28 46	13 31-2346	EA	PTIR Color Kit, Black (System Sensor CK-300-IR-BL).....	241.63	9.18
			Note: Includes cover and trim ring		
28 46	13 31-2347	EA	PTIR Color Kit, Ivory (System Sensor CK-300-IR-IV).....	241.63	9.18
			Note: Includes cover and trim ring		
28 46	13 31-2348	EA	Accessory Flange Ring For B210LP Base (System Sensor F210).....	28.91	9.18
			Note: Includes cover and trim ring		
28 46	13 31-2349	EA	Black Faceplate (System Sensor FP-BLACK-BP)	28.04	9.18
28 46	13 31-2350	EA	White Faceplate, 2 In/2 Out (System Sensor FP-WHITE-2-BP).....	28.49	9.18
28 46	13 31-2351	EA	White Faceplate (System Sensor FP-WHITE-BP)	27.03	9.18
28 46	13 31-2352	EA	White, Back Box (System Sensor SMB500-WH).....	49.84	15.31
28 46	13 31-2353	EA	Accessory Flange Ring For B210LP Base, White (System Sensor TR300).....	19.68	6.12
28 46	13 31-2354	EA	Accessory Flange Ring For B210LP Base, Ivory (System Sensor TR300-IV).....	28.37	6.12
28 46	13 31-2355	EA	White Faceplate Swift (System Sensor FP-WHITE-SWIFT-BP).....	29.89	9.18
28 46	13 31-2356	EA	Red, ALERT Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-AL).....	25.93	6.12
28 46	13 31-2357	EA	Red, AGENT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AG).....	28.43	6.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2358 EA Red, ALERT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AL).....	28.43	6.12
28 46 13 31-2359 EA Red, EVAC Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-EV).....	28.43	6.12
28 46 13 31-2360 EA Red, FIRE Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-F).....	28.43	6.12
28 46 13 31-2361 EA Red, Plain, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-P).....	28.43	6.12
28 46 13 31-2362 EA Red, EVAC Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-EV).....	25.93	6.12
28 46 13 31-2363 EA Red, FIRE Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-F).....	25.93	6.12
28 46 13 31-2364 EA Red, Plain, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-P).....	25.93	6.12
28 46 13 31-2365 EA L Series, 120 VAC Adapter Mounting Plate (System Sensor MP120KL).....	78.48	15.31
28 46 13 31-2366 EA White, Amber Lens, Universal Expander Plate (System Sensor SEP-SPSWL-P).....	157.12	15.31
28 46 13 31-2367 Chimes <small>(28 46 13 31-2050)</small>		
28 46 13 31-2368 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL).....	161.50	45.92
28 46 13 31-2369 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL).....	167.44	45.92
28 46 13 31-2370 Chime/Strobes <small>(28 46 13 31-2050)</small>		
28 46 13 31-2371 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	246.62	45.92
28 46 13 31-2372 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	246.62	45.92
28 46 13 31-2373 EA L-Series, Red, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCRL).....	248.41	45.92
28 46 13 31-2374 EA L-Series, White, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCWL).....	248.41	45.92
28 46 13 31-2375 Carbon Monoxide Detectors <small>(28 46 13 31-2050)</small>		
28 46 13 31-2376 EA Conventional Carbon Monoxide Detector (System Sensor CO1224).....	296.43	61.22
28 46 13 31-2377 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	244.24	45.92
28 46 13 31-2378 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	19.43	6.12
28 46 13 31-2379 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan (System Sensor FCO-951).....	369.26	45.92
28 46 13 31-2380 EA 12/24 VDC, Conventional Carbon Monoxide Detector With Sounder And Trouble Relay With Test Function, UL2075 Listed (System Sensor CO1224T).....	274.85	61.22
28 46 13 31-2381 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan, Ivory (System Sensor FCO-951-IV).....	382.36	45.92
28 46 13 31-2382 Switches <small>(28 46 13 31-2050)</small>		
28 46 13 31-2383 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	225.20	24.49
28 46 13 31-2384 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	251.99	24.49
28 46 13 31-2385 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	225.20	24.49
28 46 13 31-2386 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	251.99	24.49
28 46 13 31-2387 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	234.73	24.49
28 46 13 31-2388 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	219.25	24.49
28 46 13 31-2389 Low Frequency Sounders <small>(28 46 13 31-2050)</small>		
28 46 13 31-2390 EA Red, Low Frequency Sounder (System Sensor HR-LF).....	218.02	45.92
28 46 13 31-2391 EA White, Low Frequency Sounder (System Sensor HW-LF).....	218.02	45.92
28 46 13 31-2392 EA Red, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCRL-LF).....	200.48	45.92
28 46 13 31-2393 EA White, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCWL-LF).....	200.48	45.92
28 46 13 31-2394 EA Red, Wall Mounted, Low-frequency Compact Sounder (System Sensor HGRL-LF).....	198.99	45.92
28 46 13 31-2395 EA White, Wall Mounted, Low-frequency Compact Sounder (HGWL-LF).....	198.99	45.92
28 46 13 31-2396 Sync Modules <small>(28 46 13 31-2050)</small>		
28 46 13 31-2397 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	177.31	30.61
28 46 13 31-2398 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	174.34	30.61
28 46 13 31-2399 Relays <small>(28 46 13 31-2050)</small>		
28 46 13 31-2400 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	99.23	24.49
28 46 13 31-2401 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	64.07	15.31
28 46 13 31-2402 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	191.35	15.31
28 46 13 31-2403 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	140.15	15.31
28 46 13 31-2404 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	107.21	24.49
28 46 13 31-2405 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	66.21	15.31
28 46 13 31-2406 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	215.76	15.31
28 46 13 31-2407 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	160.69	15.31
28 46 13 31-2408 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	55.38	15.31
28 46 13 31-2409 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	55.38	15.31
28 46 13 31-2410 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	55.38	15.31

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2411 Remote Annunciator <small>(28 46 13 31-2050)</small>		
28 46 13 31-2412 EA Remote Annunciator (System Sensor RA100Z)	129.34	45.92
28 46 13 31-2413 EA Remote LED Annunciator (System Sensor RA100ZA)	123.19	45.92
28 46 13 31-2414 EA Remote Annunciator With Piezo Alarm (System Sensor APA151)	153.87	45.92
28 46 13 31-2415 Remote Test Station <small>(28 46 13 31-2050)</small>		
28 46 13 31-2416 EA Remote Test Station With Key (System Sensor RTS151KEY)	206.73	45.92
28 46 13 31-2417 Fire Alarm Digital Cellular Communicator <small>(28 46 13 31)</small>		
28 46 13 31-2418 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	757.06	61.22
28 46 13 31-2419 Wheelock Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-2420 Ceiling Mounted Chimes/Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2421 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	270.37	45.92
28 46 13 31-2422 Wall Mounted Chimes/Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2423 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FR)	270.37	45.92
28 46 13 31-2424 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FW)	270.37	45.92
28 46 13 31-2425 Ceiling Mounted Horns/Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2426 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	173.92	45.92
28 46 13 31-2427 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	200.78	45.92
28 46 13 31-2428 Wall Mounted Horns/Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2429 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR)	177.74	45.92
28 46 13 31-2430 EA Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4- 241575 Watt-FR)	276.25	45.92
28 46 13 31-2431 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FR)	242.45	45.92
28 46 13 31-2432 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FW)	242.45	45.92
28 46 13 31-2433 EA Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt- FR)	261.69	45.92
28 46 13 31-2434 EA Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	199.49	45.92
28 46 13 31-2435 EA Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	197.25	45.92
28 46 13 31-2436 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	217.57	52.04
28 46 13 31-2437 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	176.84	45.92
28 46 13 31-2438 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	176.84	45.92
28 46 13 31-2439 EA White, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FW)	196.35	45.92
28 46 13 31-2440 EA Red, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	242.45	45.92
28 46 13 31-2441 EA White, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	242.45	45.92
28 46 13 31-2442 Ceiling Mounted Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2443 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	165.85	45.92
28 46 13 31-2444 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	165.85	45.92
28 46 13 31-2445 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	181.13	45.92
28 46 13 31-2446 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	159.12	45.92
28 46 13 31-2447 EA White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, No Lettering (Wheelock RSSA-24MCC-NW)	177.51	45.92
28 46 13 31-2448 EA White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, Red ALERT Lettering (Wheelock RSSA-24MCC-ALW)	179.08	45.92
28 46 13 31-2449 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe With Fire Lettering (Wheelock RSS-24MCCH-FW)	179.75	45.92
28 46 13 31-2450 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Weatherproof Strobe With Fire Lettering (Wheelock RSSWP-2475C-FR)	190.36	45.92
28 46 13 31-2451 Wall Mounted Strobes <small>(28 46 13 31-2419)</small>		
28 46 13 31-2452 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	253.77	45.92
28 46 13 31-2453 EA Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	203.08	45.92
28 46 13 31-2454 EA Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	219.63	45.92
28 46 13 31-2455 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	164.05	45.92
28 46 13 31-2456 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	164.05	45.92
28 46 13 31-2457 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP- 24MCW-FR)	175.72	45.92
28 46 13 31-2458 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	183.03	52.04
Note: Requires WPSBB-R.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2459 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR).....	160.24	45.92
28 46 13 31-2460 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	160.24	45.92
28 46 13 31-2461 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCWH-NW).....	191.42	45.92
28 46 13 31-2462 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCWH-NW).....	166.07	45.92
28 46 13 31-2463 EA Weatherproof, White, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FW)..... Note: Requires WPSBB-R.	206.48	52.04
28 46 13 31-2464 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Weatherproof Wall Mounted Strobe (Wheelock RSSWP-24MCWH-FW).....	204.65	45.92
28 46 13 31-2465 Ceiling Mounted Speakers/Strobes (28 46 13 31-2419)		
28 46 13 31-2466 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	203.08	45.92
28 46 13 31-2467 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	203.08	45.92
28 46 13 31-2468 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW).....	203.08	45.92
28 46 13 31-2469 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	205.32	45.92
28 46 13 31-2470 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	217.89	45.92
28 46 13 31-2471 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW).....	235.38	45.92
28 46 13 31-2472 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FR).....	235.38	45.92
28 46 13 31-2473 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FR).....	207.12	45.92
28 46 13 31-2474 EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Square, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-NW).....	230.55	45.92
28 46 13 31-2475 EA Round, 2 Watt, 24 Volt DC, 15/30/75/95CD, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-NW).....	244.83	45.92
28 46 13 31-2476 EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Ceiling Mounted, Speaker/Strobe (Wheelock ET70WP-2475C-FW).....	259.12	45.92
28 46 13 31-2477 Wall Mounted Speakers/Strobes (28 46 13 31-2419)		
28 46 13 31-2478 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	303.76	45.92
28 46 13 31-2479 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW).....	303.76	45.92
28 46 13 31-2480 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	217.89	45.92
28 46 13 31-2481 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	217.89	45.92
28 46 13 31-2482 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	203.08	45.92
28 46 13 31-2483 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	199.49	45.92
28 46 13 31-2484 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR).....	217.89	45.92
28 46 13 31-2485 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	217.89	45.92
28 46 13 31-2486 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR).....	300.52	45.92
28 46 13 31-2487 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	205.32	45.92
28 46 13 31-2488 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	203.53	45.92
28 46 13 31-2489 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	293.24	45.92
28 46 13 31-2490 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	300.52	45.92
28 46 13 31-2491 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	235.38	45.92
28 46 13 31-2492 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	235.38	45.92
28 46 13 31-2493 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)..... Note: Requires weatherproof backbox (IOB).	326.52	52.04
28 46 13 31-2494 EA Interior, Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FR).....	186.48	45.92
28 46 13 31-2495 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FW).....	179.75	45.92
28 46 13 31-2496 EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Round, Wall Mounted Speaker/Strobe (Wheelock E60-24MCW-FW).....	244.83	45.92
28 46 13 31-2497 EA Red, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	259.12	45.92
28 46 13 31-2498 EA White, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	264.48	45.92
28 46 13 31-2499 EA White, 8 Watt, 24 VDC, 15/30/75/110 Candela, No Lettering, Wall Mounted, Speaker/Strobe (Wheelock ET70-24MCW-NW).....	273.41	45.92
28 46 13 31-2500 EA Red, 8 Watts, Weatherproof, 185 Candela, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-24185W-FR).....	279.96	45.92
28 46 13 31-2501 EA Red, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FR)..... Note: Requires IOB	275.79	45.92
28 46 13 31-2502 EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FW)..... Note: Requires IOB	273.41	45.92
28 46 13 31-2503 Electric Alarm Bells (28 46 13 31-2419)		
28 46 13 31-2504 EA 6" Diameter, 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R).....	197.70	45.92
28 46 13 31-2505 EA 6" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R).....	190.52	45.92
28 46 13 31-2506 EA 10" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R).....	238.52	45.92
28 46 13 31-2507 EA 10" Diameter, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSX10-115-R).....	1,894.87	52.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-2508	EA	10" Diameter, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSXG10-115-R)	3,064.81	52.04
28 46	13 31-2509	EA	10" Diameter, Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CVXG10-115-R)	3,299.16	52.04
28 46	13 31-2510	EA	6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	157.10	45.92
28 46	13 31-2511	EA	10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	215.66	45.92
28 46	13 31-2512	EA	6", ADA, 12 Volt DC, Red, Motor Bell (Wheelock MB-G6-12-R)	159.79	45.92
28 46	13 31-2513	EA	10", ADA, 12 Volt DC, Red, Indoor/Outdoor Motor Bell (Wheelock MB-G10-12-R)	213.58	45.92
28 46 13 31-2514 Horns <small>(28 46 13 31-2419)</small>					
28 46	13 31-2515	EA	Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non-Sync Horn (Wheelock AH-24WP-R)	156.54	45.92
28 46	13 31-2516	EA	Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR)	131.84	45.92
28 46	13 31-2517	EA	White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	131.84	45.92
28 46	13 31-2518	EA	Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC)	132.83	45.92
28 46	13 31-2519	EA	White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNWC)	132.83	45.92
28 46	13 31-2520	EA	Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	116.23	45.92
28 46	13 31-2521	EA	White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	116.23	45.92
28 46	13 31-2522	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R)	132.83	45.92
28 46	13 31-2523	EA	Red, 24 Volt DC, Four Wire, Wall Mounted Horn (Wheelock HS-24-R)	159.70	45.92
28 46 13 31-2524 Speakers <small>(28 46 13 31-2419)</small>					
28 46	13 31-2525	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R)	135.70	45.92
28 46	13 31-2526	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	135.70	45.92
28 46	13 31-2527	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R)	135.70	45.92
28 46	13 31-2528	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	133.73	45.92
28 46	13 31-2529	EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	135.70	45.92
28 46	13 31-2530	EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W)	135.70	45.92
28 46	13 31-2531	EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	135.70	45.92
28 46	13 31-2532	EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W)	135.70	45.92
28 46	13 31-2533	EA	Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R)	157.32	45.92
28 46	13 31-2534	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	157.32	45.92
28 46	13 31-2535	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	159.12	45.92
28 46	13 31-2536	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R)	215.07	45.92
28 46	13 31-2537	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	194.23	45.92
28 46	13 31-2538	EA	Grey, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15S)	298.18	45.92
28 46	13 31-2539	EA	Red, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15SR)	298.18	45.92
28 46	13 31-2540	EA	Red, 1/8 To 8 Watts, Square, Surface Mounted, Vandal Resistant Speaker (Wheelock ET-1010-R)	215.07	45.92
28 46	13 31-2541	EA	White, 8 Watts, Wall/Ceiling Mounted, Vandal Resistant Speaker (Wheelock ET-1010-W)	217.45	45.92
28 46	13 31-2542	EA	Red, 1/8 To 8 Watts, Square, Flush Mounted, Vandal Resistant Speaker (Wheelock ET-1080-R)	194.23	45.92
28 46	13 31-2543	EA	White, 8", 25/70 Volt, 15/30/75/95 Candela, Round, Ceiling Mounted, Speaker (Wheelock S8-24MCC-FW)	288.89	45.92
28 46	13 31-2544	EA	White, 8", 25/70 Volt, Round, Ceiling Mounted, Speaker (Wheelock S8-70/25)	208.52	45.92
28 46 13 31-2545 Sync Modules <small>(28 46 13 31-2419)</small>					
28 46	13 31-2546	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	187.41	30.61
28 46 13 31-2547 Boxes, Plates And Rings <small>(28 46 13 31-2419)</small>					
28 46	13 31-2548	EA	4" Square, Red, Surface Backbox (Wheelock BB-R)	40.43	15.31
28 46	13 31-2549	EA	Standard 4" Square Box (Wheelock BB-STD)	39.90	15.31
28 46	13 31-2550	EA	Black, Backbox For UZC-256 (Wheelock BB-UZC)	253.52	30.61
28 46	13 31-2551	EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R)	253.52	30.61
28 46	13 31-2552	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	195.44	24.49
28 46	13 31-2553	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R)	21.03	6.12
28 46	13 31-2554	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W)	21.03	6.12
28 46	13 31-2555	EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R)	51.07	15.31
28 46	13 31-2556	EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W)	48.19	15.31
28 46	13 31-2557	EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R)	51.07	15.31
28 46	13 31-2558	EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W)	51.07	15.31
28 46	13 31-2559	EA	4" Square Backbox (Wheelock DBB-R)	42.27	15.31
28 46	13 31-2560	EA	Red, Surface Backbox (Wheelock IOB-R)	49.18	15.31
28 46	13 31-2561	EA	White, Surface, Backbox (Wheelock IOB-W)	49.18	15.31
28 46	13 31-2562	EA	White, Indoor, Surface Extender (Wheelock ISP2-W)	20.09	6.12
28 46	13 31-2563	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R)	25.99	6.12
28 46	13 31-2564	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	25.99	6.12
28 46	13 31-2565	EA	Red Retrofit Plate (Wheelock RP-R)	23.90	6.12
28 46	13 31-2566	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4)	42.36	6.12
28 46	13 31-2567	EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R)	51.51	15.31
28 46	13 31-2568	EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W)	52.14	15.31
28 46	13 31-2569	EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R)	55.46	15.31
28 46	13 31-2570	EA	Red, Semi-Flush Plate (Wheelock SFB-R)	27.20	6.12
28 46	13 31-2571	EA	White, Semi-Flush Plate (Wheelock SFB-W)	27.20	6.12
28 46	13 31-2572	EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R)	45.28	15.31
28 46	13 31-2573	EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W)	45.28	15.31
28 46	13 31-2574	EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R)	29.82	6.12
28 46	13 31-2575	EA	Red, Weather Resistant Backbox (Wheelock WBB-R)	50.71	15.31
28 46	13 31-2576	EA	Silver, Weather Resistant Backbox (Wheelock WBB-S)	50.71	15.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2577 EA White, Weather Resistant Backbox (Wheelock WBB-W).....	50.71	15.31
28 46 13 31-2578 EA Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R)	36.64	6.12
28 46 13 31-2579 EA White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	36.64	6.12
28 46 13 31-2580 EA Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R)	36.64	6.12
28 46 13 31-2581 EA White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W)	36.64	6.12
28 46 13 31-2582 EA Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	25.28	6.12
28 46 13 31-2583 EA Weather Resistant Backbox For ASWP (Wheelock WPBB-R)	63.00	15.31
28 46 13 31-2584 EA Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R)	57.76	15.31
28 46 13 31-2585 EA Red Plate For RSS (Wheelock RSSCP-R).....	20.09	6.12
28 46 13 31-2586 EA White Plate For RSS (Wheelock RSSCP-W).....	20.09	6.12
28 46 13 31-2587 EA Red Fire Plate For RSS (Wheelock RSSCPW-FR)	21.03	6.12
28 46 13 31-2588 EA White Fire Plate For RSS (Wheelock RSSCPW-FW)	21.03	6.12
28 46 13 31-2589 EA Red, Indoor, Surface Extender (Wheelock ISP2-R).....	20.49	6.12
28 46 13 31-2590 EA Red, 24 Volt DC, 135/185 Candela, Wall Mounted Strobe Plate (Wheelock RSSP-24MCHW-FR).....	155.12	6.12
28 46 13 31-2591 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-ALW)	139.05	6.12
28 46 13 31-2592 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, No Lettering, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-NW).....	136.67	6.12
28 46 13 31-2593 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, ALERT Lettering, Wall Mounted Strobe Plate (Wheelock RSSPA-24MCCW-ALW)	139.05	6.12
28 46 13 31-2594 EA Red, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-R).....	23.37	6.12
28 46 13 31-2595 EA White, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-W)	22.66	6.12
28 46 13 31-2596 EA Red, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-R).....	23.91	6.12
28 46 13 31-2597 EA White, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-W)	23.91	6.12
28 46 13 31-2598 EA White, Fire Lettered, Grill Plate For E50 Speaker/Strobe (Wheelock ECHSG50-FW).....	22.66	6.12
28 46 13 31-2599 EA Red, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FR).....	23.79	6.12
28 46 13 31-2600 EA White, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FW).....	23.79	6.12
28 46 13 31-2601 EA Red, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-R)	22.66	6.12
28 46 13 31-2602 EA White, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-W)	22.66	6.12
28 46 13 31-2603 EA Red, Surface Mounted, Extender Ring (Wheelock SER-R).....	31.71	6.12
28 46 13 31-2604 EA White, Surface Mounted, Extender Ring (Wheelock SER-W).....	32.07	6.12
28 46 13 31-2605 EA Red, Semi-Flush, Plate (Wheelock SFP-R).....	25.28	6.12
28 46 13 31-2606 EA Silver, Semi-Flush, Plate (Wheelock SFP-S).....	23.91	6.12
28 46 13 31-2607 EA White, Semi-Flush, Plate (Wheelock SFP-W).....	25.28	6.12
28 46 13 31-2608 EA Red, Weather Resistant Back Box For ASWP (Wheelock WPBB-R)	63.00	15.31
28 46 13 31-2609 EA Red, Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R)	57.76	15.31
28 46 13 31-2610 EA White, Weather Resistant Back Box For RSSWP Series (Wheelock WPSBB-W)	57.76	15.31
28 46 13 31-2611 Manual Pull Station <small>(28 46 13 31-2419)</small>		
28 46 13 31-2612 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	136.31	30.61
28 46 13 31-2613 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	136.31	30.61
28 46 13 31-2614 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	1,195.08	30.61
28 46 13 31-2615 Fire Alarm Terminal Cabinets <small>(28 46 13 31)</small>		
28 46 13 31-2616 EA 18 Point Lockable Fire Alarm Terminal Cabinet	253.88	61.37
28 46 13 31-2617 EA 32 Point Lockable Fire Alarm Terminal Cabinet	332.59	61.37
28 46 13 31-2618 EA 64 Point Lockable Fire Alarm Terminal Cabinet	489.99	61.37
28 46 13 31-2619 EA 128 Point Lockable Fire Alarm Terminal Cabinet.....	647.34	61.37
28 46 13 31-2620 Test And Certification Of Fire Alarm System To Tie In To Existing Systems		
<small>(28 46 13 31)</small>		
28 46 13 31-2621 DAY Test And Certification Of Fire Alarm System To Tie Into Existing Systems	972.34	
28 46 13 31-2622 HR Test And Certification Of Fire Alarm System To Tie In To Existing Systems	303.86	
28 46 13 31-2623 Programming Of Existing Fire Alarm System <small>(28 46 13 31)</small>		
28 46 13 31-2624 HR Programming Of Existing Fire Alarm System.....	364.63	
28 46 13 31-2625 Removal And Reinstallation Of Smoke Detector <small>(28 46 13 31)</small>		
Note: Includes storage, cleaning and supply materials.		
28 46 13 31-2626 EA Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....	171.42	
28 46 13 31-2627 EA Removal And Reinstallation Of Wall Mounted Smoke Detector	137.75	
28 46 13 31-2628 Kidde Fire Safety Equipment <small>(28 46 13 31)</small>		
28 46 13 31-2629 Smoke Detectors <small>(28 46 13 31-2628)</small>		
28 46 13 31-2630 EA Combination Smoke And Carbon Monoxide Detector, Intelligent Sensor, 120 Volt Hardwired, With 10 Year Sealed Battery Back-up (Kidde P4010ACS-CO)	160.55	45.92
28 46 13 31-2631 EA Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With 10 Year Sealed Battery Back-up (Kidde i12010SCO)	141.17	45.92
28 46 13 31-2632 EA Combination Smoke And Carbon Monoxide Detector, With 10 Year Sealed Battery (Kidde P3010K-CO).....	131.39	45.92
28 46 13 31-2633 Potter Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-2634 Electric Alarm Bells <small>(28 46 13 31-2633)</small>		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 13 31-2635	EA	6" Alarm Bell, 12 Volt DC (Potter MBA-6-12).....	130.74	45.92
	28 46 13 31-2636	EA	8" Alarm Bell, 12 Volt DC (Potter MBA-8-12).....	143.03	45.92
	28 46 13 31-2637	EA	10" Alarm Bell, 12 Volt DC (Potter MBA-10-12).....	149.17	45.92
	28 46 13 31-2638	EA	6" Alarm Bell, 24 Volt DC (Potter MBA-6-24).....	130.74	45.92
	28 46 13 31-2639	EA	8" Alarm Bell, 24 Volt DC (Potter MBA-8-24).....	143.03	45.92
	28 46 13 31-2640	EA	10" Alarm Bell, 24 Volt DC (Potter MBA-10-24).....	149.17	45.92
	28 46 13 31-2641	EA	6" Alarm Bell, 24 Volt AC (Potter PBA246).....	141.17	45.92
	28 46 13 31-2642	EA	8" Alarm Bell, 24 Volt AC (Potter PBA248).....	147.07	45.92
	28 46 13 31-2643	EA	10" Alarm Bell, 24 Volt AC (Potter PBA2410).....	181.81	45.92
	28 46 13 31-2644	EA	6" Alarm Bell, 120 Volt AC (Potter PBA1206).....	132.51	45.92
	28 46 13 31-2645	EA	8" Alarm Bell, 120 Volt AC (Potter PBA1208).....	147.07	45.92
	28 46 13 31-2646	EA	10" Alarm Bell, 120 Volt AC (Potter PBA12010).....	159.24	45.92
	28 46 13 31-2647		Manual Pull Station (28 46 13 31-2633)		
	28 46 13 31-2648	EA	SPST, Single Action, Manual Pull Station (Potter P32-1T).....	96.05	30.61
	28 46 13 31-2649	EA	DPST, Single Action, Manual Pull Station (Potter RMS-2T).....	101.63	30.61
	28 46 13 31-2650	EA	DPST, Single Action, Manual Pull Station (Potter RMS-6T).....	164.44	30.61
	28 46 13 31-2651	EA	DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL).....	105.10	30.61
	28 46 13 31-2652	EA	SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP).....	99.21	30.61
	28 46 13 31-2653	EA	SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP).....	184.08	30.61
	28 46 13 31-2654	EA	SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP).....	230.92	30.61
	28 46 31		Fire-Alarm Initiating Devices (28 46)		
	28 46 31 11		Heat-Sensing Fire Detectors (28 46 31)		
	28 46 31 11-0001		Protectowire Fire Alarm (28 46 31 11)		
	28 46 31 11-0002		Linear Heat Detector Cable (28 46 31 11-0001)		
	28 46 31 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....	5.77	
	28 46 31 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M).....	6.25	
	28 46 31 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....	6.25	
	28 46 31 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....	6.74	
	28 46 31 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT).....	7.31	
	28 46 31 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M).....	7.80	
	28 46 31 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....	71.98	
	28 46 31 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC).....	28.59	
	28 46 31 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W).....	9.52	
	28 46 31 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2).....	9.52	
	28 46 31 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO).....	10.55	
	28 46 31 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2).....	16.45	
	28 46 31 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....	17.09	
	28 46 31 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A).....	1.65	
	28 46 31 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....	2.24	
	28 46 31 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C).....	9.88	
	28 46 41		Fire-Alarm Notification Appliances (28 46)		
	28 46 41 11		Audible Fire-Alarm Notification Appliances (28 46 41)		
			See CSI section 28 46 13 31-0000 for fire alarm speakers.		
	28 46 41 31		Combination Fire-Alarm Notification Appliances (28 46 41)		
			See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.		
	28 47		Mass Notification (28 40)		
	28 47 15		Mass Notification Control Panels (28 47)		
	28 47 15 00-0001		Central Station Controls (28 47 15)		
	28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	955.54	
	28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,553.81	
	28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	4,652.17	61.22
	28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,420.14	30.61
	28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	5,421.72	122.44
	28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	789.21	30.61
	28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	846.68	30.61
	28 47 17		Notification Devices and Methods (28 47)		
	28 47 17 17		Notification Appliances and Methods Public Methods (28 47 17)		
	28 47 17 17-0001		Voice Capable Omni-Directional Speakers (28 47 17 17)		
	28 47 17 17-0002	EA	1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	13,383.31	791.86
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
	28 47 17 17-0003	EA	2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	16,347.21	826.28
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
	28 47 17 17-0004	EA	3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	19,274.41	860.71
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A)	22,201.62	895.14
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A)	25,202.23	929.57
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A)	30,221.54	964.00
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A)	33,185.45	998.43
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A)	36,748.84	1,032.86
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A)	39,676.05	1,067.28
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A)	42,639.95	1,101.71
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003)	29,120.43	964.00
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004)	31,019.92	998.43
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL)	560.12	30.61
28 47 17 17-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV)	2,165.57	30.61
28 47 17 17-0016 EA UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU)	2,165.57	30.61
28 47 17 17-0017 EA UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU)	1,957.58	30.61
28 47 17 17-0018 EA VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV)	1,896.41	30.61
28 47 17 17-0019 EA Two-Tone Sequential Option (Whelen WPSTT)	517.26	30.61
28 47 17 17-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS)	663.71	30.61
28 47 17 17-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL)	689.91	30.61
28 47 17 17-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV)	3,084.91	30.61
28 47 17 17-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU)	2,373.56	30.61
28 47 17 17-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU)	2,373.56	30.61
28 47 17 17-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV)	2,373.56	30.61
28 47 17 17-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD)	846.68	30.61
28 47 17 17-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS)	586.99	30.61
28 47 17 17-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT)	424.38	30.61
28 47 17 17-0029 EA Intrusion Alarm (Whelen INTRUWPS)	320.79	30.61
28 47 17 17-0030 EA Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG)	227.42	
28 47 17 17-0031 EA Whelen Library Messages (Whelen MSGPROG)	45.54	
28 47 17 17-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC)	171.36	30.61
28 47 17 17-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT)	1,109.75	45.92
28 47 17 17-0034 EA WPS And OA Series, Roof Top Mounted (Whelen RTM)	10,480.57	757.43
28 47 17 17-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280)	4,368.05	183.66
Note: Includes mounting bracket and regulator.		
28 47 17 17-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA)	2,220.65	45.92
28 47 17 17-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB)	2,220.65	45.92
28 47 17 17-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC)	2,220.65	45.92
28 47 17 17-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG)	2,220.65	45.92
28 47 17 17-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR)	2,220.65	45.92
28 47 17 17-0041 EA Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4)	839.59	45.92
28 47 17 17-0042 EA Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4)	839.59	45.92
28 47 17 17-0043 EA Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4)	839.59	45.92
28 47 17 17-0044 EA Amber, 24 Volt DC, Strobe (Whelen ISB24A)	655.03	45.92
28 47 17 17-0045 EA Blue, 24 Volt DC, Strobe (Whelen ISB24B)	655.03	45.92
28 47 17 17-0046 EA Clear, 24 Volt DC, Strobe (Whelen ISB24C)	655.03	45.92
28 47 17 17-0047 EA Green, 24 Volt DC, Strobe (Whelen ISB24G)	655.03	45.92
28 47 17 17-0048 EA Red, 24 Volt DC, Strobe (Whelen ISB24R)	655.03	45.92
28 47 17 17-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCOWPS)	860.14	30.61
28 47 17 17-0050 EA Strobe Controller (Whelen STCTRL)	695.86	30.61
28 47 17 17-0051 EA LED Controller (Whelen LEDCTRL)	695.86	30.61
28 47 17 17-0052 EA Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL)	415.38	45.92
28 47 17 17-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS)	568.76	
28 47 17 17-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV)	967.34	30.61
28 47 17 17-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS)	482.73	30.61
28 47 17 17-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC)	171.36	30.61
28 47 17 17-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS)	956.63	30.61
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)	10,810.91	757.43
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)	13,505.66	791.86
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)	16,175.93	826.28
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)	18,907.37	860.71
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN)	308.36	30.61
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL)	560.12	30.61
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV)	2,165.57	30.61
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU)	2,165.57	30.61
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU)	1,957.58	30.61
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV)	1,896.41	30.61
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT)	450.58	30.61
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUJCS)	680.29	30.61



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0071	EA		Two Way Landline Activation (Whelen OC2030LL).....	707.21	30.61
28 47 17 17-0072	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV)	2,373.56	30.61
28 47 17 17-0073	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU)	2,373.56	30.61
28 47 17 17-0074	EA		UHF, 10 Digit DTMF (Whelen OC230WU).....	2,373.56	30.61
28 47 17 17-0075	EA		VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	2,373.56	30.61
28 47 17 17-0076	EA		Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	846.68	30.61
28 47 17 17-0077	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	424.38	30.61
28 47 17 17-0078	EA		Cabinet Window LED Status Indicator (Whelen OSTATUS).....	482.73	30.61
28 47 17 17-0079	EA		Intrusion Alarm (Whelen OINTRU)	256.49	30.61
28 47 17 17-0080	EA		80 Watt Solar Power Option (Whelen OSBC280).....	4,368.05	183.66
28 47 17 17-0081	EA		One Pair Of Whelen Approved Batteries For Omniaalert (Whelen BSETO).....	982.47	45.92
28 47 17 17-0082			Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083	EA		3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	22,446.31	895.14
28 47 17 17-0084	EA		4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	23,807.48	929.57
28 47 17 17-0085	EA		Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN)	301.74	30.61
28 47 17 17-0086	EA		Landline, 10 Digit DTMF (Whelen VD2030LL).....	573.85	30.61
28 47 17 17-0087	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	2,165.57	30.61
28 47 17 17-0088	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	2,165.57	30.61
28 47 17 17-0089	EA		UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU)	1,957.58	30.61
28 47 17 17-0090	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV)	1,896.41	30.61
28 47 17 17-0091	EA		Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	450.58	30.61
28 47 17 17-0092	EA		Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	666.83	30.61
28 47 17 17-0093	EA		Landline, 10 Digit DTMF (Whelen VC2030LL).....	707.21	30.61
28 47 17 17-0094	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,373.56	30.61
28 47 17 17-0095	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,373.56	30.61
28 47 17 17-0096	EA		UHF, 10 Digit DTMF (Whelen VC230WU)	2,373.56	30.61
28 47 17 17-0097	EA		VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,373.56	30.61
28 47 17 17-0098	EA		Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFASKXMOD)	846.68	30.61
28 47 17 17-0099	EA		Cabinet Window LED Status Indicator (Whelen VSTATUS).....	494.32	30.61
28 47 17 17-0100	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	424.38	30.61
28 47 17 17-0101	EA		Vortex Intrusion Alarm (Whelen VINTRU).....	256.49	30.61
28 47 17 17-0102	EA		Speaker Pole Top Bracket (Whelen VPTB).....	680.29	30.61
28 47 17 17-0103	EA		80 Watt Solar Power Option (Whelen VSBC280).....	4,368.05	183.66
28 47 17 17-0104	EA		One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	982.47	45.92
28 47 17 17-0105	EA		Program Charge For Custom VROM Message (Whelen VPROG).....	3,605.99	
28 47 17 17-0106			Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107	EA		118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	14,313.14	791.86
28 47 17 17-0108	EA		One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	301.74	30.61
28 47 17 17-0109	EA		Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL)	573.85	30.61
28 47 17 17-0110	EA		VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV)	2,165.57	30.61
28 47 17 17-0111	EA		UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU)	2,165.57	30.61
28 47 17 17-0112	EA		UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,957.58	30.61
28 47 17 17-0113	EA		VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,896.41	30.61
28 47 17 17-0114	EA		Two-Tone Sequential Option For Hornet (Whelen HORTT)	461.29	30.61
28 47 17 17-0115	EA		Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	650.62	30.61
28 47 17 17-0116	EA		Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL)	689.91	30.61
28 47 17 17-0117	EA		VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV)	2,373.56	30.61
28 47 17 17-0118	EA		UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU)	2,373.56	30.61
28 47 17 17-0119	EA		UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU)	2,373.56	30.61
28 47 17 17-0120	EA		VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,373.56	30.61
28 47 17 17-0121	EA		Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	846.68	30.61
28 47 17 17-0122	EA		LED Status Indicator (Whelen HSTATUS).....	482.73	30.61
28 47 17 17-0123	EA		Option For Paging Interface (Whelen HPGINT).....	424.38	30.61
28 47 17 17-0124	EA		Intrusion Alarm (Whelen HINTRU).....	256.49	30.61
28 47 17 17-0125	EA		Solar Power Option (Whelen HSBC280)	4,368.05	183.66
28 47 17 17-0126	EA		Pole Top Bracket For Speaker (Whelen HPTB).....	686.34	30.61
28 47 17 17-0127	EA		One Pair Of Whelen Approved Batteries (Whelen BSETF).....	982.47	45.92
28 47 17 17-0128			All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129	EA		400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400)	7,146.59	979.56
28 47 17 17-0130	EA		800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800)	8,676.10	1,102.01
28 47 17 17-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T)	428.80	45.92
28 47 17 17-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR)	409.75	45.92
28 47 17 17-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN)	790.77	45.92
28 47 17 17-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T)	537.15	45.92
28 47 17 17-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T)	1,094.40	45.92
28 47 17 17-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T)	1,731.28	52.04
28 47 17 17-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	694.32	45.92
28 47 17 17-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	1,087.60	52.04
28 47 17 17-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	256.49	30.61
28 47 17 17-0140			Firehouse Siren (28 47 17 17)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0141 EA Auxiliary Board Contact Closure (Whelen FAUXIN)	301.74	30.61
28 47 17 17-0142 EA Two-Tone Sequential Option (Whelen FTT)	450.58	30.61
28 47 17 17-0143 EA Auxiliary/Status Control Board (Whelen FAUXCS)	666.83	30.61
28 47 17 17-0144 EA Landline, 10 Digit DTMF (Whelen FC2030LL)	689.91	30.61
28 47 17 17-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV)	2,373.56	30.61
28 47 17 17-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU)	2,373.56	30.61
28 47 17 17-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU)	2,373.56	30.61
28 47 17 17-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV)	2,373.56	30.61
28 47 17 17-0149 EA Paging Interface Control Option (Whelen FPGINT)	424.38	30.61
28 47 17 17-0150 EA Intrusion Alarm Control Option (Whelen FINTRU)	256.49	30.61
28 47 17 17-0151 EA Solar Power Option (Whelen FSBC280)	4,368.05	183.66
Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 17 17-0152 Alert Monitor And Message Display (28 47 17 17)		
28 47 17 17-0153 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H)	1,982.05	30.61
28 47 17 17-0154 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH)	1,982.05	30.61
28 47 17 17-0155 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU)	1,982.05	30.61
28 47 17 17-0156 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U)	1,982.05	30.61
28 47 17 17-0157 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT)	266.86	45.92
28 47 17 17-0158 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG)	74.32	30.61
28 47 17 17-0159 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA)	169.08	
28 47 17 17-0160 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB)	265.53	
28 47 17 17-0161 Portable Test Set (28 47 17 17)		
28 47 17 17-0162 EA VHF High Band, Portable Test Set (Whelen PT2010H)	7,989.19	
28 47 17 17-0163 EA VHF Low Band, Portable Test Set (Whelen PT2010L)	7,989.19	
28 47 17 17-0164 EA UHF, Portable Test Set (Whelen PT2010U)	7,989.19	
28 47 17 17-0165 Replacement Warning Lights (28 47 17 17)		
28 47 17 17-0166 EA Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA)	421.82	48.98
28 47 17 17-0167 EA Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB)	421.82	48.98
28 47 17 17-0168 EA Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC)	421.82	48.98
28 47 17 17-0169 EA Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG)	421.82	48.98
28 47 17 17-0170 EA Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR)	421.82	48.98
28 47 17 17-0171 EA Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA)	453.97	48.98
28 47 17 17-0172 EA Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB)	293.22	48.98
28 47 17 17-0173 EA Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC)	449.21	48.98
28 47 17 17-0174 EA Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG)	449.21	48.98
28 47 17 17-0175 EA Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR)	449.21	48.98
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA)	421.82	48.98
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB)	421.82	48.98
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC)	421.82	48.98
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG)	421.82	48.98
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR)	421.82	48.98
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA)	473.02	48.98
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB)	473.02	48.98
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC)	305.13	48.98
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG)	305.13	48.98
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR)	305.13	48.98
28 47 17 17-0186 Antenna (28 47 17 17)		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC)	307.52	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB)	274.71	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000)	15,098.28	
28 47 21 Mass Notification System Interfaces (28 47)		
28 47 21 21 Notification Interfaces to Fire Detection and Alarm (28 47 21)		
28 47 21 21-0001 Emergency Command Center (Honeywell Fire-Lite) (28 47 21 21)		
28 47 21 21-0002 EA Emergency Command Center Multipurpose Emergency Voice Evacuation Panels (Fire-Lite ECC-50/100(E))	2,629.22	306.11
28 47 21 21-0003 EA Circuit Expander Module (Fire-Lite ECC_CE6)	512.02	24.49
28 47 21 21-0004 EA 25V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_25V)	449.59	30.61
28 47 21 21-0005 EA 75V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_70V)	463.61	30.61
28 47 21 21-0006 EA 70V Transformer Conversion Module (Fire-Lite ECC_XRM_70V)	237.94	30.61
28 47 21 21-0007 EA Local Operator Console (Fire-Lite ECC-LOC)	1,413.88	61.22
28 47 21 21-0008 EA Remote Page Unit Hand Held Microphone (Fire-Lite ECC-RPU)	1,120.85	15.31
28 47 21 21-0009 EA Distributed (Remote) Audio Amplifier, 50 Watts (Fire-Lite ECC-50DA)	1,074.74	61.22
28 47 21 21-0010 EA Distributed (Remote) Audio Amplifier, 125 Watts (Fire-Lite ECC-125DA)	1,854.11	61.22
28 47 21 21-0011 EA Distributed (Remote) Audio Amplifier With Backup, 50/100 Watts (Fire-Lite ECC50BDA)	2,944.49	61.22
28 47 21 21-0012 EA 100 Watt Primary / 50 Watt Back-up Remote Amplifier Expander Card (Fire-Lite ECC-50WBU)	1,443.02	30.61
28 47 21 21-0013 EA Distributed Audio Speaker Circuit/Zone Expander Module (Fire-Lite ECC-CE4)	444.47	30.61
28 47 21 21-0014 EA Addressable Mini-Monitor Module (Fire-Lite MMF-301)	103.09	30.61
28 47 21 21-0015 EA Thumb Latch (Fire-Lite THUMBLTCH)	57.40	12.24
28 47 21 21-0016 EA 25-120 Ampere-Hours (AH) Battery Charger (Fire-Lite CHG-120F)	806.72	12.24
28 47 21 21-0017 EA Replacement Microphone (Fire-Lite ECC-MICROPHONE)	166.07	12.24

28 Electronic Safety and Security

28 40 Life Safety

28 47 Mass Notification



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 21 21-0018	EA		12 Volt, 7 Ampere-Hour (AH) Battery (Fire-Lite BAT-1270).....	307.95	30.61
28 47 21 21-0019	EA		12 Volt, 12 Ampere-Hour (AH) Battery (Fire-Lite BAT-12120).....	396.12	30.61
28 47 21 21-0020	EA		12 Volt, 18 Ampere-Hour (AH) Battery (Fire-Lite BAT-12180).....	293.64	30.61

END OF SECTION 28



Earthwork	31	13
Maintenance of Earthwork	31 01	
Maintenance of Earth Moving	31 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001	Rip Settling Basins ^(31 01 20)	
	Note: Rip through light soil and sand in settling basin. 8' on center (machine width).	
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	716.27
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,098.06
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	950.67

31 05 Common Work Results for Earthwork ⁽³¹⁾

31 05 13 Soils for Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) ^(31 05 13)	
	Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.	
31 05 13 00-0002	CY Bank Run/Fill Sand	36.25
	For Up To 8, Add	7.25
	For >8 To 16, Add	3.63
	For >48 To 64, Deduct	-2.68
	For >64 To 96, Deduct	-4.49
	For >96 To 168, Deduct	-6.30
	For >168 To 240, Deduct	-7.64
	For >240, Deduct	-8.98
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	42.80
	For Up To 8, Add	8.56
	For >8 To 16, Add	4.28
	For >48 To 64, Deduct	-3.00
	For >64 To 96, Deduct	-5.14
	For >96 To 168, Deduct	-7.28
	For >168 To 240, Deduct	-8.78
	For >240, Deduct	-10.29
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	58.52
	For Up To 8, Add	11.70
	For >8 To 16, Add	5.85
	For >48 To 64, Deduct	-3.79
	For >64 To 96, Deduct	-6.71
	For >96 To 168, Deduct	-9.64
	For >168 To 240, Deduct	-11.53
	For >240, Deduct	-13.43
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	52.63
	For Up To 8, Add	10.53
	For >8 To 16, Add	5.26
	For >48 To 64, Deduct	-3.49
	For >64 To 96, Deduct	-6.13
	For >96 To 168, Deduct	-8.76
	For >168 To 240, Deduct	-10.50
	For >240, Deduct	-12.25
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	93.25
	For Up To 8, Add	18.65
	For >8 To 16, Add	9.33
	For >48 To 64, Deduct	-5.53
	For >64 To 96, Deduct	-10.19
	For >96 To 168, Deduct	-14.85
	For >168 To 240, Deduct	-17.61
	For >240, Deduct	-20.38
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	38.96
	For Up To 8, Add	7.79
	For >8 To 16, Add	3.90
	For >48 To 64, Deduct	-2.81
	For >64 To 96, Deduct	-4.76
	For >96 To 168, Deduct	-6.71
	For >168 To 240, Deduct	-8.11
	For >240, Deduct	-9.52
31 05 13 00-0008	CY Lime Rock Screening	42.45
	For Up To 8, Add	8.49
	For >8 To 16, Add	4.25
	For >48 To 64, Deduct	-2.99
	For >64 To 96, Deduct	-5.11
	For >96 To 168, Deduct	-7.23
	For >168 To 240, Deduct	-8.72
	For >240, Deduct	-10.22

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 05 13 00-0009	CY	Crushed Lime Rock Maximum 3-1/2"	42.45	
			For Up To 8, Add	8.49	
			For >8 To 16, Add	4.25	
			For >48 To 64, Deduct	-2.99	
			For >64 To 96, Deduct	-5.11	
			For >96 To 168, Deduct	-7.23	
			For >168 To 240, Deduct	-8.72	
			For >240, Deduct	-10.22	
	31 05 13 00-0010	CY	Sand/Clay	39.97	
			For Up To 8, Add	7.99	
			For >8 To 16, Add	4.00	
			For >48 To 64, Deduct	-2.86	
			For >64 To 96, Deduct	-4.86	
			For >96 To 168, Deduct	-6.86	
			For >168 To 240, Deduct	-8.29	
			For >240, Deduct	-9.72	
	31 05 13 00-0011	CY	Recycled Concrete Aggregate	38.07	
			For Up To 8, Add	7.61	
			For >8 To 16, Add	3.81	
			For >48 To 64, Deduct	-2.77	
			For >64 To 96, Deduct	-4.67	
			For >96 To 168, Deduct	-6.57	
			For >168 To 240, Deduct	-7.96	
			For >240, Deduct	-9.34	
	31 05 13 00-0012	CY	Pitrun Clay	54.47	
			For Up To 8, Add	10.89	
			For >8 To 16, Add	5.45	
			For >48 To 64, Deduct	-3.59	
			For >64 To 96, Deduct	-6.31	
			For >96 To 168, Deduct	-9.03	
			For >168 To 240, Deduct	-10.83	
			For >240, Deduct	-12.62	
	31 05 13 00-0013	CY	Light Clay / Loam	45.12	
			For Up To 8, Add	9.02	
			For >8 To 16, Add	4.51	
			For >48 To 64, Deduct	-3.12	
			For >64 To 96, Deduct	-5.37	
			For >96 To 168, Deduct	-7.63	
			For >168 To 240, Deduct	-9.19	
			For >240, Deduct	-10.75	
	31 05 13 00-0014	CY	Heavy Clay	54.47	
			For Up To 8, Add	10.89	
			For >8 To 16, Add	5.45	
			For >48 To 64, Deduct	-3.59	
			For >64 To 96, Deduct	-6.31	
			For >96 To 168, Deduct	-9.03	
			For >168 To 240, Deduct	-10.83	
			For >240, Deduct	-12.62	

31 05 16 Aggregates for Earthwork ^(31 05)

See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) ^(31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 01 74 19 00-0052 for hauling greater than 15 miles.

	31 05 16 00-0002	CY	#2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	56.78	
			For Up To 8, Add	11.36	
			For >8 To 16, Add	5.68	
			For >48 To 64, Deduct	-3.70	
			For >64 To 96, Deduct	-6.54	
			For >96 To 168, Deduct	-9.38	
			For >168 To 240, Deduct	-11.23	
			For >240, Deduct	-13.08	
	31 05 16 00-0003	CY	#3 Stone Aggregate Fill (1" To 2" Clean)	59.10	
			For Up To 8, Add	11.82	
			For >8 To 16, Add	5.91	
			For >48 To 64, Deduct	-3.82	
			For >64 To 96, Deduct	-6.77	
			For >96 To 168, Deduct	-9.73	
			For >168 To 240, Deduct	-11.64	
			For >240, Deduct	-13.55	
	31 05 16 00-0004	CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	56.78	
			For Up To 8, Add	11.36	
			For >8 To 16, Add	5.68	
			For >48 To 64, Deduct	-3.70	
			For >64 To 96, Deduct	-6.54	
			For >96 To 168, Deduct	-9.38	
			For >168 To 240, Deduct	-11.23	
			For >240, Deduct	-13.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean).....	60.78	
For Up To 8, Add	12.16	
For >8 To 16, Add	6.08	
For >48 To 64, Deduct	-3.90	
For >64 To 96, Deduct	-6.94	
For >96 To 168, Deduct	-9.98	
For >168 To 240, Deduct	-11.93	
For >240, Deduct	-13.88	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean).....	63.13	
For Up To 8, Add	12.63	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.18	
For >96 To 168, Deduct	-10.33	
For >168 To 240, Deduct	-12.34	
For >240, Deduct	-14.35	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1").....	61.14	
For Up To 8, Add	12.23	
For >8 To 16, Add	6.11	
For >48 To 64, Deduct	-3.92	
For >64 To 96, Deduct	-6.98	
For >96 To 168, Deduct	-10.03	
For >168 To 240, Deduct	-11.99	
For >240, Deduct	-13.95	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1").....	65.25	
For Up To 8, Add	13.05	
For >8 To 16, Add	6.53	
For >48 To 64, Deduct	-4.13	
For >64 To 96, Deduct	-7.39	
For >96 To 168, Deduct	-10.65	
For >168 To 240, Deduct	-12.71	
For >240, Deduct	-14.78	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4").....	58.97	
For Up To 8, Add	11.79	
For >8 To 16, Add	5.90	
For >48 To 64, Deduct	-3.81	
For >64 To 96, Deduct	-6.76	
For >96 To 168, Deduct	-9.71	
For >168 To 240, Deduct	-11.61	
For >240, Deduct	-13.52	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2").....	60.11	
For Up To 8, Add	12.02	
For >8 To 16, Add	6.01	
For >48 To 64, Deduct	-3.87	
For >64 To 96, Deduct	-6.87	
For >96 To 168, Deduct	-9.88	
For >168 To 240, Deduct	-11.81	
For >240, Deduct	-13.75	
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2").....	60.61	
For Up To 8, Add	12.12	
For >8 To 16, Add	6.06	
For >48 To 64, Deduct	-3.89	
For >64 To 96, Deduct	-6.92	
For >96 To 168, Deduct	-9.95	
For >168 To 240, Deduct	-11.90	
For >240, Deduct	-13.85	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8").....	63.13	
For Up To 8, Add	12.63	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.18	
For >96 To 168, Deduct	-10.33	
For >168 To 240, Deduct	-12.34	
For >240, Deduct	-14.35	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8").....	63.84	
For Up To 8, Add	12.77	
For >8 To 16, Add	6.38	
For >48 To 64, Deduct	-4.05	
For >64 To 96, Deduct	-7.25	
For >96 To 168, Deduct	-10.44	
For >168 To 240, Deduct	-12.47	
For >240, Deduct	-14.49	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16").....	63.13	
For Up To 8, Add	12.63	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.18	
For >96 To 168, Deduct	-10.33	
For >168 To 240, Deduct	-12.34	
For >240, Deduct	-14.35	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0015	CY		#10 Stone Aggregate Fill (1/16" To 3/16")	64.59	
			<i>For Up To 8, Add</i>	12.92	
			<i>For >8 To 16, Add</i>	6.46	
			<i>For >48 To 64, Deduct</i>	-4.09	
			<i>For >64 To 96, Deduct</i>	-7.32	
			<i>For >96 To 168, Deduct</i>	-10.55	
			<i>For >168 To 240, Deduct</i>	-12.60	
			<i>For >240, Deduct</i>	-14.64	
31 05 16 00-0016	CY		#610 Modified Stone Aggregate Fill (1/16" To 3/4")	63.84	
			<i>For Up To 8, Add</i>	12.77	
			<i>For >8 To 16, Add</i>	6.38	
			<i>For >48 To 64, Deduct</i>	-4.05	
			<i>For >64 To 96, Deduct</i>	-7.25	
			<i>For >96 To 168, Deduct</i>	-10.44	
			<i>For >168 To 240, Deduct</i>	-12.47	
			<i>For >240, Deduct</i>	-14.49	
31 05 16 00-0017	CY		Screenings Stone Aggregate Fill (3/16" Max)	53.53	
			<i>For Up To 8, Add</i>	10.71	
			<i>For >8 To 16, Add</i>	5.35	
			<i>For >48 To 64, Deduct</i>	-3.54	
			<i>For >64 To 96, Deduct</i>	-6.22	
			<i>For >96 To 168, Deduct</i>	-8.89	
			<i>For >168 To 240, Deduct</i>	-10.66	
			<i>For >240, Deduct</i>	-12.43	
31 05 16 00-0018	CY		Over 6" To 12" Stone Aggregate Fill, Random Size	58.19	
			<i>For Up To 8, Add</i>	11.64	
			<i>For >8 To 16, Add</i>	5.82	
			<i>For >48 To 64, Deduct</i>	-3.77	
			<i>For >64 To 96, Deduct</i>	-6.68	
			<i>For >96 To 168, Deduct</i>	-9.59	
			<i>For >168 To 240, Deduct</i>	-11.48	
			<i>For >240, Deduct</i>	-13.36	
31 05 16 00-0019	CY		Over 6" To 12" Graded Stone Aggregate Fill	58.19	
			<i>For Up To 8, Add</i>	11.64	
			<i>For >8 To 16, Add</i>	5.82	
			<i>For >48 To 64, Deduct</i>	-3.77	
			<i>For >64 To 96, Deduct</i>	-6.68	
			<i>For >96 To 168, Deduct</i>	-9.59	
			<i>For >168 To 240, Deduct</i>	-11.48	
			<i>For >240, Deduct</i>	-13.36	
31 05 16 00-0020	CY		3" To 7" Surge Stone Aggregate Fill, Random Size	62.85	
			<i>For Up To 8, Add</i>	12.57	
			<i>For >8 To 16, Add</i>	6.29	
			<i>For >48 To 64, Deduct</i>	-4.01	
			<i>For >64 To 96, Deduct</i>	-7.15	
			<i>For >96 To 168, Deduct</i>	-10.29	
			<i>For >168 To 240, Deduct</i>	-12.29	
			<i>For >240, Deduct</i>	-14.30	
31 05 16 00-0021	CY		3" To 7" Surge Stone Graded Aggregate Fill	66.17	
			<i>For Up To 8, Add</i>	13.23	
			<i>For >8 To 16, Add</i>	6.62	
			<i>For >48 To 64, Deduct</i>	-4.17	
			<i>For >64 To 96, Deduct</i>	-7.48	
			<i>For >96 To 168, Deduct</i>	-10.79	
			<i>For >168 To 240, Deduct</i>	-12.87	
			<i>For >240, Deduct</i>	-14.96	
31 05 16 00-0022	CY		Crusher Run Aggregate Fill (2-1/2" Minus)	37.31	
			<i>For Up To 8, Add</i>	7.46	
			<i>For >8 To 16, Add</i>	3.73	
			<i>For >48 To 64, Deduct</i>	-2.73	
			<i>For >64 To 96, Deduct</i>	-4.59	
			<i>For >96 To 168, Deduct</i>	-6.46	
			<i>For >168 To 240, Deduct</i>	-7.82	
			<i>For >240, Deduct</i>	-9.19	
31 05 16 00-0023	CY		Crusher Run Aggregate Fill (1-1/2" Minus)	40.97	
			<i>For Up To 8, Add</i>	8.19	
			<i>For >8 To 16, Add</i>	4.10	
			<i>For >48 To 64, Deduct</i>	-2.91	
			<i>For >64 To 96, Deduct</i>	-4.96	
			<i>For >96 To 168, Deduct</i>	-7.01	
			<i>For >168 To 240, Deduct</i>	-8.46	
			<i>For >240, Deduct</i>	-9.92	
31 05 16 00-0024	CY		Crusher Run Aggregate Fill (3/4" Minus)	38.60	
			<i>For Up To 8, Add</i>	7.72	
			<i>For >8 To 16, Add</i>	3.86	
			<i>For >48 To 64, Deduct</i>	-2.79	
			<i>For >64 To 96, Deduct</i>	-4.72	
			<i>For >96 To 168, Deduct</i>	-6.65	
			<i>For >168 To 240, Deduct</i>	-8.05	
			<i>For >240, Deduct</i>	-9.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025	CY		Silica Sand #20 (For Playground Use Only)	210.14	
			For Up To 8, Add	42.03	
			For >8 To 16, Add	21.01	
			For >48 To 64, Deduct	-11.37	
			For >64 To 96, Deduct	-21.88	
			For >96 To 168, Deduct	-32.38	
			For >168 To 240, Deduct	-38.07	
			For >240, Deduct	-43.75	
31 05 16 00-0026	CY		Graded Aggregate Base Fill (3/4" Minus) Class II Base	58.50	
			For Up To 8, Add	11.70	
			For >8 To 16, Add	5.85	
			For >48 To 64, Deduct	-3.79	
			For >64 To 96, Deduct	-6.71	
			For >96 To 168, Deduct	-9.64	
			For >168 To 240, Deduct	-11.53	
			For >240, Deduct	-13.43	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾

⁰⁵⁾ See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾

31 11 Clearing and Grubbing ^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR		Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	7,645.56	
			Note: Includes grub and removal of stump		
31 11 00 00-0003	ACR		Clear And Grub Light Stumps Only Up To 6" Diameter	2,284.99	
31 11 00 00-0004	ACR		Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	10,194.06	
			Note: Includes grub and removal of stump		
31 11 00 00-0005	ACR		Clear And Grub Medium Stumps Only Up To 10" Diameter	3,808.31	
31 11 00 00-0006	ACR		Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	14,016.84	
			Note: Includes grub and removal of stump		
31 11 00 00-0007	ACR		Clear And Grub Heavy Stumps Only Up To 16" Diameter	5,712.48	
31 11 00 00-0008	ACR		Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip	20,388.14	
			Note: Includes grub and removal of stump		
31 11 00 00-0009	ACR		Clear And Grub Heavy Stumps Only Up To 24" Diameter	7,997.47	
31 11 00 00-0010	ACR		Clearing By Machine - Light Brush Without Grub	343.71	
31 11 00 00-0011	ACR		Clearing By Machine - Medium Brush Without Grub	716.20	
31 11 00 00-0012	ACR		Clearing By Machine - Heavy Brush Without Grub	1,010.11	
31 11 00 00-0013	ACR		Chipping - Light Brush	2,718.90	
31 11 00 00-0014	ACR		Chipping - Medium Brush	3,495.90	
31 11 00 00-0015	ACR		Chipping - Heavy Brush	4,894.72	

31 11 00 00-0016 Loading Of Cleared And Grubbed Material ^(31 11)

See CSI section 01 74 19 00-0050 for hauling.

31 11 00 00-0017	CY		Machine Loading Of Cleared And Grubbed Material	12.02	
31 11 00 00-0018	CY		Chute Loading Of Cleared And Grubbed Material	14.42	
31 11 00 00-0019	CY		Hand Loading Of Cleared And Grubbed Material	40.91	
31 11 00 00-0020	CY		Wheel And Ramp Loading Of Cleared And Grubbed Material	32.14	

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)

31 13 13 Selective Tree and Shrub Removal ^(31 13)

31 13 13 00-0001 Individual Tree Removal ^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA		Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	637.12	
			Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003	EA		>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	955.69	
			Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004	EA		>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,274.26	
			Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005	EA		>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,911.38	
			Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006	EA		>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,548.52	
			Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007	EA		>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	3,185.64	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-796.41	
31 13 13 00-0008	EA		>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,822.78	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-955.70	
31 13 13 00-0009	EA		>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	5,097.04	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,274.26	

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 13 13 00-0010	Stump Removal ^(31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0011	Stump Removal By Machine ^(31 13 13 00-0010)		
31 13 13 00-0012	EA Up To 6" Diameter Stump Removal.....	114.25	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0013	EA >6" To 12" Diameter Stump Removal.....	218.98	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0014	EA >12" To 24" Diameter Stump Removal.....	285.63	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0015	EA >24" To 36" Diameter Stump Removal.....	428.44	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0016	EA >36" To 48" Diameter Stump Removal.....	504.63	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0017	EA >48" To 60" Diameter Stump Removal.....	594.10	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0018	EA >60" To 72" Diameter Stump Removal.....	704.54	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0019	EA >72" To 84" Diameter Stump Removal.....	828.31	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0020	Stump Removal By Hand ^(31 13 13 00-0010)		
31 13 13 00-0021	EA Up To 6" Diameter Stump Removal By Hand.....	665.86	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0022	EA >6" To 12" Diameter Stump Removal By Hand.....	832.33	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0023	EA >12" To 24" Diameter Stump Removal By Hand.....	1,220.75	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0024	EA >24" To 36" Diameter Stump Removal By Hand.....	1,664.65	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0025	EA >36" To 48" Diameter Stump Removal By Hand.....	2,219.54	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0026	EA >48" To 60" Diameter Stump Removal By Hand.....	2,774.42	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0027	EA >60" To 72" Diameter Stump Removal By Hand.....	3,329.30	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0028	EA >72" To 84" Diameter Stump Removal By Hand.....	3,884.18	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0029	Stump Grinding ^(31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030	Stump Grinding, 18" Deep Below Surface Of Soil ^(31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031	EA Stump Grinding Up To 6" Tree.....	120.27	
	For 24" Depth, Add	24.05	
31 13 13 00-0032	EA Stump Grinding >6" To 12" Tree.....	150.34	
	For 24" Depth, Add	30.07	
31 13 13 00-0033	EA Stump Grinding >12" To 15" Tree.....	180.41	
	For 24" Depth, Add	36.08	
31 13 13 00-0034	EA Stump Grinding >15" To 18" Tree.....	200.45	
	For 24" Depth, Add	40.09	
31 13 13 00-0035	EA Stump Grinding >18" To 21" Tree.....	215.49	
	For 24" Depth, Add	43.10	
31 13 13 00-0036	EA Stump Grinding >21" To 24" Tree.....	230.52	
	For 24" Depth, Add	46.10	
31 13 13 00-0037	EA Stump Grinding >24" To 27" Tree.....	250.57	
	For 24" Depth, Add	50.11	
31 13 13 00-0038	EA Stump Grinding >27" To 30" Tree.....	272.07	
	For 24" Depth, Add	54.41	
31 13 13 00-0039	EA Stump Grinding >30" To 33" Tree.....	302.30	
	For 24" Depth, Add	60.46	
31 13 13 00-0040	EA Stump Grinding >33" To 36" Tree.....	332.52	
	For 24" Depth, Add	66.50	
31 13 13 00-0041	EA Stump Grinding >36" To 42" Tree.....	362.75	
	For 24" Depth, Add	72.55	
31 13 13 00-0042	EA Stump Grinding >42" To 48" Tree.....	403.06	
	For 24" Depth, Add	80.61	
31 13 13 00-0043	EA Stump Grinding >48" To 60" Tree.....	503.82	
	For 24" Depth, Add	100.76	
31 13 13 00-0044	EA Stump Grinding >60" To 72" Tree.....	629.77	
	For 24" Depth, Add	125.95	



Earthwork	31	13
Site Clearing	31 10	
Selective Tree and Shrub Removal and Trimming	31 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree..... <i>For 24" Depth, Add</i>	806.11	
			161.22	

31 13 13 00-0046

Fallen Tree Removal (31 13 13)
 Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.

31 13 13 00-0047	EA	Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >25, Deduct</i>	509.70	
			-127.43	
			-63.71	
31 13 13 00-0048	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >25, Deduct</i>	764.56	
			-191.14	
			-95.57	
31 13 13 00-0049	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	1,019.41	
			-254.85	
			-101.94	
31 13 13 00-0050	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	1,529.11	
			-382.28	
			-152.91	
31 13 13 00-0051	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	2,038.81	
			-509.70	
			-203.88	
31 13 13 00-0052	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	2,548.52	
			-637.13	
			-254.85	

31 13 16 Selective Tree and Shrub Trimming (31 13)

See CSI section 32 01 90 23-0000 for tree pruning.

31 13 16 00-0001

Tree Trimming For Pole Line Construction And Maintenance (31 13 16)
 Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	2.07	
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	3.10	
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction	3.65	

31 13 16 00-0005

Tree Branch Trimming And Removal For Maintenance Along Building Or Structure (31 13 16)

Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.

31 13 16 00-0006	EA	Trim Tree Branch Minimum Charge..... Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	748.92	
31 13 16 00-0007	EA	Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	18.73	
31 13 16 00-0008	EA	>1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	21.06	
31 13 16 00-0009	EA	>2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	25.74	
31 13 16 00-0010	EA	Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	23.40	
31 13 16 00-0011	EA	>1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	26.33	
31 13 16 00-0012	EA	>2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	32.18	

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 22 Grading (31 20)

31 22 13

Rough Grading (31 22)

See CSI section 31 23 16 00-0000 for rough grading.

31	31	Earthwork
	31 20	Earth Moving
	31 22	Grading



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 22 16 Fine Grading (31 22)

31 22 16 13 Roadway Subgrade Reshaping (31 22 16)

See CSI section 31 23 16 00-0000 for bulk shaping and grading, 31 24 13 00-0000 for roadway shaping and grading.

31 22 19 Finish Grading (31 22)

31 22 19 13 Spreading and Grading Topsoil (31 22 19)

31 22 19 13-0001 Site Grading For Areas Outside Of Structures And Slabs (31 22 19 13)

Note: Use of bobcat type equipment or hand for finish grading for positive drainage.

31 22 19 13-0002 Hand Digging And Grading (31 22 19 13-0001)

31 22 19 13-0003	SF	Trim And Shape Machine Excavated Area By Hand Finish Grade	1.13
31 22 19 13-0004	SF	Trim And Shape Area On Grade By Hand, Finish Grade.....	1.03
31 22 19 13-0005	SF	Fine Grade Gravel Bedding By Hand Finish Grade	1.07
31 22 19 13-0006	SF	Fine Grade Gravel By Hand Finish Grade	0.89

31 22 19 13-0007 Machine Operations (31 22 19 13-0001)

31 22 19 13-0008 Machine Operations With Grader (31 22 19 13-0007)

31 22 19 13-0009	CSY	Semi Grade, 2 Passes With Grader.....	438.53
31 22 19 13-0010	CSY	Fine Grade, 3 Passes With Grader	609.08

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	11.67
		<i>For Excavation In Light Material (Class A), Deduct</i>	-1.46
		<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	4.67
		<i>For Up To 20, Add</i>	11.67
		<i>For >20 To 50, Add</i>	8.75
		<i>For >50 To 250, Add</i>	4.67
		<i>For >250 To 500, Add</i>	1.75
		<i>For >1,000, Deduct</i>	-1.75
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	7.60
		<i>For Excavation In Light Material (Class A), Deduct</i>	-0.95
		<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	3.04
		<i>For Up To 20, Add</i>	7.60
		<i>For >20 To 50, Add</i>	5.70
		<i>For >50 To 250, Add</i>	3.04
		<i>For >250 To 500, Add</i>	1.14
		<i>For >1,000, Deduct</i>	-1.14
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	19.32
		Note: Includes compacted aggregate	
		<i>For Up To 20, Add</i>	19.32
		<i>For >20 To 50, Add</i>	14.49
		<i>For >50 To 250, Add</i>	7.73
		<i>For >250 To 500, Add</i>	2.90
		<i>For >1,000, Deduct</i>	-2.90
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	13.49
		Note: Includes compacted aggregate	
		<i>For Up To 20, Add</i>	13.49
		<i>For >20 To 50, Add</i>	10.12
		<i>For >50 To 250, Add</i>	5.40
		<i>For >250 To 500, Add</i>	2.02
		<i>For >1,000, Deduct</i>	-2.02

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil	134.98
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate	231.54
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	

31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.

31 23 16 13-0010	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine.....	4.24
		<i>For Up To 20, Add</i>	4.24
		<i>For >20 To 50, Add</i>	3.18
		<i>For >50 To 250, Add</i>	1.70
		<i>For >250 To 500, Add</i>	0.64
		<i>For >1,000, Deduct</i>	-0.64
31 23 16 13-0011	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	37.50



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches <small>(31 23 16 13)</small> Note: Includes restoration of final grade.		
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	7.83	
For Up To 20, Add	7.83	
For >20 To 50, Add	5.87	
For >50 To 250, Add	3.13	
For >250 To 500, Add	1.17	
For >1,000, Deduct	-1.17	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	42.30	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches <small>(31 23 16 13)</small> ¹³⁾ Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	7.38	
For Up To 20, Add	7.38	
For >20 To 50, Add	5.54	
For >50 To 250, Add	2.95	
For >250 To 500, Add	1.11	
For >1,000, Deduct	-1.11	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	98.98	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches <small>(31 23 16 13)</small> Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	3.51	
For Up To 20, Add	3.51	
For >20 To 50, Add	2.63	
For >50 To 250, Add	1.40	
For >250 To 500, Add	0.53	
For >1,000, Deduct	-0.53	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine <small>(31 23 16 13)</small> Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.60	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.86	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	4.07	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep.....	4.59	
31 23 16 13-0025 Utility Chain Trencher <small>(31 23 16 13)</small>		
31 23 16 13-0026 Utility Trench, Chain Trencher <small>(31 23 16 13-0025)</small> Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.43	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.21	
For >500, Deduct	-0.43	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.57	
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.24	
For >500, Deduct	-0.47	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.62	
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.24	
For >500, Deduct	-0.49	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.71	
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.26	
For >500, Deduct	-0.51	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.88	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.28	
For >500, Deduct	-0.56	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.14	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.64	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.57	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.77	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.43	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.73	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.86	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.43	
For >500, Deduct	-0.86	

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 23 16 13-0036	LF	8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	3.25	
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.49	
			<i>For >500, Deduct</i>	-0.98	
	31 23 16 13-0037	LF	8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.85	
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.58	
			<i>For >500, Deduct</i>	-1.16	
31 23 16 13-0038	Backfill Trenches With Compaction <small>(31 23 16 13-0025)</small>				
	31 23 16 13-0039	LF	Backfill 4" Wide, 12" Deep Trench, With Compaction	0.22	
			<i>For >100 To 250, Deduct</i>	-0.02	
			<i>For >250 To 500, Deduct</i>	-0.03	
			<i>For >500, Deduct</i>	-0.07	
	31 23 16 13-0040	LF	Backfill 4" Wide, 18" Deep Trench, With Compaction	0.35	
			<i>For >100 To 250, Deduct</i>	-0.02	
			<i>For >250 To 500, Deduct</i>	-0.05	
			<i>For >500, Deduct</i>	-0.11	
	31 23 16 13-0041	LF	Backfill 4" Wide, 24" Deep Trench, With Compaction	0.47	
			<i>For >100 To 250, Deduct</i>	-0.03	
			<i>For >250 To 500, Deduct</i>	-0.07	
			<i>For >500, Deduct</i>	-0.14	
	31 23 16 13-0042	LF	Backfill 6" Wide, 12" Deep Trench, With Compaction	0.35	
			<i>For >100 To 250, Deduct</i>	-0.02	
			<i>For >250 To 500, Deduct</i>	-0.05	
			<i>For >500, Deduct</i>	-0.11	
	31 23 16 13-0043	LF	Backfill 6" Wide, 18" Deep Trench, With Compaction	0.47	
			<i>For >100 To 250, Deduct</i>	-0.03	
			<i>For >250 To 500, Deduct</i>	-0.07	
			<i>For >500, Deduct</i>	-0.14	
	31 23 16 13-0044	LF	Backfill 6" Wide, 24" Deep Trench, With Compaction	0.70	
			<i>For >100 To 250, Deduct</i>	-0.05	
			<i>For >250 To 500, Deduct</i>	-0.11	
			<i>For >500, Deduct</i>	-0.21	
	31 23 16 13-0045	LF	Backfill 6" Wide, 36" Deep Trench, With Compaction	1.00	
			<i>For >100 To 250, Deduct</i>	-0.07	
			<i>For >250 To 500, Deduct</i>	-0.15	
			<i>For >500, Deduct</i>	-0.30	
	31 23 16 13-0046	LF	Backfill 8" Wide, 12" Deep Trench, With Compaction	0.47	
			<i>For >100 To 250, Deduct</i>	-0.03	
			<i>For >250 To 500, Deduct</i>	-0.07	
			<i>For >500, Deduct</i>	-0.14	
	31 23 16 13-0047	LF	Backfill 8" Wide, 18" Deep Trench, With Compaction	0.70	
			<i>For >100 To 250, Deduct</i>	-0.05	
			<i>For >250 To 500, Deduct</i>	-0.11	
			<i>For >500, Deduct</i>	-0.21	
	31 23 16 13-0048	LF	Backfill 8" Wide, 24" Deep Trench, With Compaction	0.93	
			<i>For >100 To 250, Deduct</i>	-0.07	
			<i>For >250 To 500, Deduct</i>	-0.14	
			<i>For >500, Deduct</i>	-0.28	
	31 23 16 13-0049	LF	Backfill 8" Wide, 36" Deep Trench, With Compaction	1.40	
			<i>For >100 To 250, Deduct</i>	-0.10	
			<i>For >250 To 500, Deduct</i>	-0.21	
			<i>For >500, Deduct</i>	-0.42	
31 23 16 16	Structural Excavation for Minor Structures <small>(31 23 16)</small>				
31 23 16 16-0001	Post Holes <small>(31 23 16 16)</small>				
	Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.				
31 23 16 16-0002	Drilling Post Hole In Soil <small>(31 23 16 16-0001)</small>				
	Note: Auger by machine unless otherwise notified by owner.				
	31 23 16 16-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	10.03	
	31 23 16 16-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	11.28	
	31 23 16 16-0005	VLF	3" Diameter Hole, Auger By Machine Post Hole In Soil	13.37	
	31 23 16 16-0006	VLF	4" Diameter Hole, Auger By Machine Post Hole In Soil	15.04	
	31 23 16 16-0007	VLF	6" Diameter Hole, Auger By Machine Post Hole In Soil	16.41	
	31 23 16 16-0008	VLF	8" Diameter Hole, Auger By Machine Post Hole In Soil	18.05	
	31 23 16 16-0009	VLF	10" Diameter Hole, Auger By Machine Post Hole In Soil	20.06	
	31 23 16 16-0010	VLF	12" Diameter Hole, Auger By Machine Post Hole In Soil	22.56	
	31 23 16 16-0011	VLF	18" Diameter Hole, Auger By Machine Post Hole In Soil	25.79	
	31 23 16 16-0012	VLF	24" Diameter Hole, Auger By Machine Post Hole In Soil	30.08	
	31 23 16 16-0013	VLF	30" Diameter Hole, Auger By Machine Post Hole In Soil	36.10	
	31 23 16 16-0014	VLF	36" Diameter Hole, Auger By Machine Post Hole In Soil	45.12	
31 23 16 16-0015	Drilling Post Hole In Rock <small>(31 23 16 16-0001)</small>				
	31 23 16 16-0016	CF	Jackhammer Post Hole, Rock	75.20	
	31 23 16 16-0017	CF	Rock Drill Post Hole, Rock	21.15	
31 23 16 16-0018	Post Hole Fill <small>(31 23 16 16-0001)</small>				



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0019 Concrete Fill <small>(31 23 16 16-0018)</small>		
31 23 16 16-0020 VLF Concrete Fill, Up To 2-1/2" Diameter Hole.....	5.95	
31 23 16 16-0021 VLF Concrete Fill, 2-1/2" Diameter Hole.....	7.64	
31 23 16 16-0022 VLF Concrete Fill, 3" Diameter Hole.....	8.42	
31 23 16 16-0023 VLF Concrete Fill, 4" Diameter Hole.....	9.67	
31 23 16 16-0024 VLF Concrete Fill, 6" Diameter Hole.....	13.62	
31 23 16 16-0025 VLF Concrete Fill, 8" Diameter Hole.....	18.19	
31 23 16 16-0026 VLF Concrete Fill, 10" Diameter Hole.....	22.24	
31 23 16 16-0027 VLF Concrete Fill, 12" Diameter Hole.....	25.93	
31 23 16 16-0028 VLF Concrete Fill, 18" Diameter Hole.....	35.32	
31 23 16 16-0029 VLF Concrete Fill, 24" Diameter Hole.....	43.81	
31 23 16 16-0030 VLF Concrete Fill, 30" Diameter Hole.....	52.10	
31 23 16 16-0031 VLF Concrete Fill, 36" Diameter Hole.....	60.68	
31 23 16 16-0032 Grout Fill <small>(31 23 16 16-0018)</small>		
31 23 16 16-0033 VLF Grout Fill, Up To 2-1/2" Diameter Hole.....	7.06	
31 23 16 16-0034 VLF Grout Fill, 2-1/2" Diameter Hole.....	9.08	
31 23 16 16-0035 VLF Grout Fill, 3" Diameter Hole.....	9.88	
31 23 16 16-0036 VLF Grout Fill, 4" Diameter Hole.....	11.12	
31 23 16 16-0037 VLF Grout Fill, 6" Diameter Hole.....	15.53	
31 23 16 16-0038 VLF Grout Fill, 8" Diameter Hole.....	20.71	
31 23 16 16-0039 VLF Grout Fill, 10" Diameter Hole.....	25.24	
31 23 16 16-0040 VLF Grout Fill, 12" Diameter Hole.....	29.29	
31 23 16 16-0041 VLF Grout Fill, 18" Diameter Hole.....	39.16	
31 23 16 16-0042 VLF Grout Fill, 24" Diameter Hole.....	47.83	
31 23 16 16-0043 VLF Grout Fill, 30" Diameter Hole.....	56.23	
31 23 16 16-0044 VLF Grout Fill, 36" Diameter Hole.....	64.83	
31 23 16 16-0045 Earth Fill, Compacted <small>(31 23 16 16-0018)</small>		
31 23 16 16-0046 VLF Earth Fill, Up To 2-1/2" Diameter Hole.....	5.01	
31 23 16 16-0047 VLF Earth Fill, 2-1/2" Diameter Hole.....	6.52	
31 23 16 16-0048 VLF Earth Fill, 3" Diameter Hole.....	6.81	
31 23 16 16-0049 VLF Earth Fill, 4" Diameter Hole.....	7.02	
31 23 16 16-0050 VLF Earth Fill, 6" Diameter Hole.....	9.38	
31 23 16 16-0051 VLF Earth Fill, 8" Diameter Hole.....	12.50	
31 23 16 16-0052 VLF Earth Fill, 10" Diameter Hole.....	15.00	
31 23 16 16-0053 VLF Earth Fill, 12" Diameter Hole.....	17.00	
31 23 16 16-0054 VLF Earth Fill, 18" Diameter Hole.....	20.71	
31 23 16 16-0055 VLF Earth Fill, 24" Diameter Hole.....	23.25	
31 23 16 16-0056 VLF Earth Fill, 30" Diameter Hole.....	25.50	
31 23 16 16-0057 VLF Earth Fill, 36" Diameter Hole.....	27.50	
31 23 16 26 Rock Removal <small>(31 23 16)</small>		
31 23 16 26-0001 Rock Breaking By Machine <small>(31 23 16 26)</small>		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone).....	29.48	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	31.45	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt).....	37.35	
31 23 16 33 Bulk Excavation <small>(31 23 16)</small>		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001 Excavation <small>(31 23 16 33)</small>		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil.....	10.97	
<i>For Excavation In Light Material (Class A), Deduct</i>		-1.37
<i>For Excavation In Heavy/Wet Material (Class C), Add</i>		4.39
<i>For >1,000, Deduct</i>		-1.65
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil.....	6.13	
<i>For Excavation In Light Material (Class A), Deduct</i>		-0.77
<i>For Excavation In Heavy/Wet Material (Class C), Add</i>		2.45
<i>For >1,000, Deduct</i>		-0.92
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock.....	13.51	
Note: Includes compacted aggregate		
<i>For >1,000, Deduct</i>		-2.03
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	7.54	
Note: Includes compacted aggregate		
<i>For >1,000, Deduct</i>		-1.13
31 23 16 33-0006 Spreading, Shaping And Rough Grading <small>(31 23 16 33)</small>		
Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine.....	6.78	
<i>For >1,000, Deduct</i>		-1.02

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations <small>(31 23 16 33)</small>		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	7.53	
For >1,000, Deduct	-1.13	
31 23 16 33-0010 Relocating On Site Excavated Material From Excavation <small>(31 23 16 33)</small>		
Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	6.02	
For >1,000, Deduct	-0.90	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	9.04	
For >1,000, Deduct	-1.36	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	13.55	
For >1,000, Deduct	-2.03	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000'	18.07	
For >1,000, Deduct	-2.71	
31 23 16 33-0015 Finish Grading For Bulk Excavation <small>(31 23 16 33)</small>		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.75	
31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift <small>(31 23 16 33)</small>		
Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine	0.76	
Note: Per Lift		
31 23 16 33-0019 Loading Excess Material For Removal From Excavation <small>(31 23 16 33)</small>		
Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation.....	6.17	
For >1,000, Deduct	-0.93	
31 23 16 36 Excavation for Building Foundations and Other Structures <small>(31 23 16)</small>		
Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001 Excavation <small>(31 23 16 36)</small>		
Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.		
31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	9.87	
For Excavation In Light Material (Class A), Deduct	-1.23	
For Excavation In Heavy/Wet Material (Class C), Add	3.95	
For Up To 20, Add	9.87	
For >20 To 50, Add	7.40	
For >50 To 250, Add	3.95	
For >250 To 500, Add	1.48	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock	12.26	
Note: Includes compacted aggregate		
For Up To 20, Add	12.26	
For >20 To 50, Add	9.20	
For >50 To 250, Add	4.90	
For >250 To 500, Add	1.84	
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil	7.36	
For Excavation In Light Material (Class A), Deduct	-0.92	
For Excavation In Heavy/Wet Material (Class C), Add	2.94	
For Up To 20, Add	7.36	
For >20 To 50, Add	5.52	
For >50 To 250, Add	2.94	
For >250 To 500, Add	1.10	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock	8.75	
Note: Includes compacted aggregate		
For Up To 20, Add	8.75	
For >20 To 50, Add	6.56	
For >50 To 250, Add	3.50	
For >250 To 500, Add	1.31	
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand <small>(31 23 16 36-0001)</small>		
Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil.....	134.98	
For Excavation In Light Material (Class A), Deduct	-16.87	
For Excavation In Heavy/Wet Material (Class C), Add	53.99	



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock..... Note: Includes compacted aggregate	231.54	
31 23 16 36-0011 Relocating On Site Excavated Stockpiled Material From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0012 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300'.....	6.02	
For Up To 20, Add	6.02	
For >20 To 50, Add	4.52	
For >50 To 250, Add	2.41	
For >250 To 500, Add	0.90	
31 23 16 36-0013 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500'.....	9.04	
For Up To 20, Add	9.04	
For >20 To 50, Add	6.78	
For >50 To 250, Add	3.62	
For >250 To 500, Add	1.36	
31 23 16 36-0014 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000'.....	13.55	
For Up To 20, Add	13.55	
For >20 To 50, Add	10.16	
For >50 To 250, Add	5.42	
For >250 To 500, Add	2.03	
31 23 16 36-0015 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'.....	18.07	
For Up To 20, Add	18.07	
For >20 To 50, Add	13.55	
For >50 To 250, Add	7.23	
For >250 To 500, Add	2.71	
31 23 16 36-0016 Backfilling <small>(31 23 16 36)</small> Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader.....	4.86	
For Up To 20, Add	4.86	
For >20 To 50, Add	3.65	
For >50 To 250, Add	1.94	
For >250 To 500, Add	0.73	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader.....	5.70	
For Up To 20, Add	5.70	
For >20 To 50, Add	4.28	
For >50 To 250, Add	2.28	
For >250 To 500, Add	0.86	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand.....	64.27	
31 23 16 36-0020 Compaction Of Fill Or Subbase <small>(31 23 16 36)</small> Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera.....	12.41	
For Up To 20, Add	12.41	
For >20 To 50, Add	9.31	
For >50 To 250, Add	4.96	
For >250 To 500, Add	1.86	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand.....	42.29	
31 23 16 36-0023 Grading For Building Foundations And Other Structures <small>(31 23 16 36)</small>		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine.....	1.30	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine.....	2.09	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand.....	12.51	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00- 0050 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine.....	6.43	
For Up To 20, Add	6.43	
For >20 To 50, Add	4.82	
For >50 To 250, Add	2.57	
For >250 To 500, Add	0.96	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand.....	98.98	
31 23 16 36-0030 Spread Excess Or Imported Material And Grade On Site <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material And Rough Grade On Site By Machine.....	3.51	
For Up To 20, Add	3.51	
For >20 To 50, Add	2.63	
For >50 To 250, Add	1.40	
For >250 To 500, Add	0.53	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 23 16 36-0032 CY Spread Excess Or Imported Material And Rough Grade On Site By Hand..... 54.63

31 23 19 Dewatering (31 23)

31 23 19 00-0001 Well Point Dewatering System (31 23 19)

31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001)

Note: Priced by linear foot of header used.

31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal	137.85
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal	75.81
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	68.93
31 23 19 00-0006	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	62.03
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	55.14
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	48.24

31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)

Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.

31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	4.12
		<i>For >5 Days And <1 Month, Deduct</i>	-0.91
		<i>For >1 Month, Deduct</i>	-1.15
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	2.40
		<i>For >5 Days And <1 Month, Deduct</i>	-0.53
		<i>For >1 Month, Deduct</i>	-0.67
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	1.72
		<i>For >5 Days And <1 Month, Deduct</i>	-0.38
		<i>For >1 Month, Deduct</i>	-0.48
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	1.26
		<i>For >5 Days And <1 Month, Deduct</i>	-0.28
		<i>For >1 Month, Deduct</i>	-0.35
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)	1.14
		<i>For >5 Days And <1 Month, Deduct</i>	-0.25
		<i>For >1 Month, Deduct</i>	-0.32

31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)

Note: The quantity for operation shall be the total number of hours the well point system is operational.

31 23 19 00-0016 HR Operation Costs..... 126.24

31 23 23 Fill (31 23)

31 23 23 23 Compaction (31 23 23)

31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)

31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator	287.28
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Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)

31 23 23 33 Flowable Fill (31 23 23)

31 23 23 33-0001 Flowable Fill (Fly Ash) Cement Backfill For Trenches (31 23 23 33)

Note: Includes compaction and restoration of final grade.

31 23 23 33-0002	CY	Flowable Fill (Fly Ash) Cement Backfill for Trenches	144.76
		<i>For Up To 20, Add</i>	59.24
		<i>For >20 To 50, Add</i>	38.44
		<i>For >50 To 250, Add</i>	19.22
		<i>For >500 To 1,000, Deduct</i>	-10.40
		<i>For >1,000, Deduct</i>	-20.80

31 24 Embankments (31 20)

31 24 13 Roadway Embankments (31 24)

31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)

Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.

31 24 13 00-0002 Cutting, Shaping And Rough Grading (31 24 13 00-0001)

Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.

31 24 13 00-0003 Cutting, Shaping, And Rough Grading (31 24 13 00-0002)



Earthwork	31	15
Earth Moving	31 20	
Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0004 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	7.53	
For Up To 20, Add	7.53	
For >20 To 50, Add	5.65	
For >50 To 250, Add	3.01	
For >250 To 500, Add	1.13	
For >1,000, Deduct	-1.13	
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	9.34	
Note: Includes compacted aggregate		
For Up To 20, Add	9.34	
For >20 To 50, Add	7.01	
For >50 To 250, Add	3.74	
For >250 To 500, Add	1.40	
For >1,000, Deduct	-1.40	
31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope.....	6.92	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	9.00	
31 24 13 00-0009 Scarify Soil (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	6.97	
For Up To 20, Add	3.49	
For >20 To 50, Add	1.74	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.39	
31 24 13 00-0011 Relocating On Site Excavated Material (31 24 13 00-0001)		
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	13.55	
For Up To 20, Add	13.55	
For >20 To 50, Add	10.16	
For >50 To 250, Add	5.42	
For >250 To 500, Add	2.03	
For >1,000, Deduct	-2.03	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	18.07	
For Up To 20, Add	18.07	
For >20 To 50, Add	13.55	
For >50 To 250, Add	7.23	
For >250 To 500, Add	2.71	
For >1,000, Deduct	-2.71	
31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	8.29	
For Up To 20, Add	8.29	
For >20 To 50, Add	6.22	
For >50 To 250, Add	3.32	
For >250 To 500, Add	1.24	
For >1,000, Deduct	-1.24	
31 24 13 00-0016 Grading (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.83	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	1.11	
31 24 13 00-0019 LF Finish Grade For Curb	1.25	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter.....	1.52	
31 24 13 00-0021 Compaction Of Fill Or Subbase (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.76	
For Up To 250, Add	0.76	
For >250 To 500, Add	0.57	
For >500 To 1,000, Add	0.30	
For >5,000, Deduct	-0.11	
31 24 13 00-0023 Loading Excess Material For Removal From Excavation (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		

31	31	Earthwork
	31 20	Earth Moving
	31 24	Embankments



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	6.17	
For Up To 20, Add	6.17	
For >20 To 50, Add	4.63	
For >50 To 250, Add	2.47	
For >250 To 500, Add	0.93	
For >1,000, Deduct	-0.93	

31 25 Erosion and Sedimentation Controls (31 20)

31 25 14 Stabilization Measures for Erosion and Sedimentation Control (31 25)

31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)

31 25 14 13-0001 Bonded Fiber Matrix (31 25 14 13)

31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	63.39
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	58.17
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	53.75
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied	51.22

31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)

31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)

31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket	3.50
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket	4.58
Note: Straw matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.	
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket	3.31
Note: As manufactured by American Excelsior	
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket	3.50
Note: As manufactured by American Green.	
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	3.08

31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)

31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket.....	4.53
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket.....	6.21
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural	3.73
Note: As manufactured by American Excelsior.	
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green	3.92
Note: As manufactured by American Excelsior.	
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket.....	4.20
Note: As manufactured by American Excelsior.	

31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)

Note: Permanent, UV stabilized.

31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat.....	14.59
Note: 100% synthetic, UV stabilized, two layer netting.	
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat.....	13.42
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat	19.01
Note: As manufactured by American Excelsior, 100% recycled	

31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)

31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave.....	5.92
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31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)

31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	11.39
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber.....	16.30
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	

31 25 14 16-0023 Erosion Control Rolls (31 25 14 16-0001)

31 25 14 16-0024 SY Erosion Control Rolls, Mirafi 140N.....	2.40
31 25 14 16-0025 SY Erosion Control Rolls, Amoco 4547	2.45



Earthwork	31	13
Earth Moving	31 20	
Erosion and Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)
 See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 25 14 23-0001 Sand Bags (31 25 14 23)
 Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG 50 LB Capacity Sand Bag With Sand	6.81	2.84
	<i>For >2,500 To 5,000, Deduct</i>	-0.57	
	<i>For >5,000, Deduct</i>	-1.25	
31 25 14 23-0003	BAG 75 LB Capacity Sand Bag With Sand	8.81	3.54
	<i>For >2,500 To 5,000, Deduct</i>	-0.71	
	<i>For >5,000, Deduct</i>	-1.59	
31 25 14 23-0004	BAG 100 LB Capacity Sand Bag With Sand	11.11	4.23
	<i>For >2,500 To 5,000, Deduct</i>	-0.85	
	<i>For >5,000, Deduct</i>	-1.96	
31 25 14 23-0005	BAG 125 LB Capacity Sand Bag With Sand	13.67	5.29
	<i>For >2,500 To 5,000, Deduct</i>	-1.06	
	<i>For >5,000, Deduct</i>	-2.42	
31 25 14 23-0006	BAG 150 LB Capacity Sand Bag With Sand	16.65	6.33
	<i>For >2,500 To 5,000, Deduct</i>	-1.27	
	<i>For >5,000, Deduct</i>	-2.93	
31 25 14 23-0007	BAG 175 LB Capacity Sand Bag With Sand	19.42	7.20
	<i>For >2,500 To 5,000, Deduct</i>	-1.44	
	<i>For >5,000, Deduct</i>	-3.38	
31 25 14 23-0008	BAG 2,000 LB Capacity Sand Bag With Sand	158.05	50.58
	<i>For >2,500 To 5,000, Deduct</i>	-9.43	
	<i>For >5,000, Deduct</i>	-25.23	
31 25 14 23-0009	BAG 3,000 LB Capacity Sand Bag With Sand	204.59	55.63
	<i>For >2,500 To 5,000, Deduct</i>	-10.37	
	<i>For >5,000, Deduct</i>	-30.83	

31 25 14 23-0010 Gravel Bags (31 25 14 23)
 Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0011	BAG 30 LB Capacity Gravel Bag With Gravel	6.33	1.89
	<i>For >2,500 To 5,000, Deduct</i>	-0.38	
	<i>For >5,000, Deduct</i>	-1.01	
31 25 14 23-0012	BAG 50 LB Capacity Gravel Bag With Gravel	11.43	2.84
	<i>For >2,500 To 5,000, Deduct</i>	-0.57	
	<i>For >5,000, Deduct</i>	-1.71	

31 25 14 23-0013 Floating Turbidity Curtain (31 25 14 23)
 Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.

31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	27.51	
	<i>For Type 1, Deduct</i>	-4.23	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.58	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.13	
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	29.81	
	<i>For Type 1, Deduct</i>	-4.66	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.84	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.44	
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	32.98	
	<i>For Type 1, Deduct</i>	-5.28	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.21	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.90	
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	35.70	
	<i>For Type 1, Deduct</i>	-5.79	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.52	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.28	
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	37.46	
	<i>For Type 1, Deduct</i>	-6.07	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.69	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.49	
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	39.23	
	<i>For Type 1, Deduct</i>	-6.35	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.87	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.70	
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	41.29	
	<i>For Type 1, Deduct</i>	-6.69	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.07	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.95	
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	44.10	
	<i>For Type 1, Deduct</i>	-7.20	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.38	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.32	
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	46.35	
	<i>For Type 1, Deduct</i>	-7.57	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.61	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.59	
31 25 14 23-0023	LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	49.35	
	<i>For Type 1, Deduct</i>	-8.10	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.93	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.99	

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
31 25 14 23-0024	LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	52.13	
	<i>For Type 1, Deduct</i>	-8.58	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.22	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.34	
31 25 14 23-0025	LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	54.85	
	<i>For Type 1, Deduct</i>	-9.03	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.50	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	6.68	
31 25 14 23-0026	LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	59.67	
	<i>For Type 1, Deduct</i>	-9.97	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.07	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	7.37	
31 25 14 23-0027	LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	62.58	
	<i>For Type 1, Deduct</i>	-10.45	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.36	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	7.72	
31 25 14 23-0028	LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	65.40	
	<i>For Type 1, Deduct</i>	-10.90	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.63	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	8.05	
31 25 14 23-0029	LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	68.39	
	<i>For Type 1, Deduct</i>	-11.38	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.93	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	8.41	
31 25 14 23-0030	LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	71.29	
	<i>For Type 1, Deduct</i>	-11.83	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-7.20	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	8.74	
31 25 14 23-0031	Turbidity Curtain Anchors <small>(31 25 14 23)</small>		
31 25 14 23-0032	EA 14 LB, Turbidity Curtain Anchor System.....	735.77	
	Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033	EA 25 LB, Turbidity Curtain Anchor System.....	1,008.24	
	Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034	EA 40 LB, Turbidity Curtain Anchor System.....	1,281.89	
	Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035	EA 65 LB, Turbidity Curtain Anchor System.....	1,676.00	
	Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036	Filter Bags <small>(31 25 14 23)</small>		
31 25 14 23-0037	Non-Woven Filter Bags <small>(31 25 14 23-0036)</small>		
31 25 14 23-0038	EA 6' x 15' Non-Woven Filter Bag	250.01	
31 25 14 23-0039	EA 13' x 15' Non-Woven Filter Bag	361.79	
31 25 14 23-0040	EA 15' x 15' Non-Woven Filter Bag	415.94	
31 25 14 23-0041	Monofilament Filter Bags <small>(31 25 14 23-0036)</small>		
31 25 14 23-0042	EA 5' x 15' Monofilament Filter Bag	259.94	
31 25 14 23-0043	EA 10' x 15' Monofilament Filter Bag	359.92	
31 25 14 23-0044	Cable Articulating Concrete Block <small>(31 25 14 23)</small>		
	Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045	SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	40.06	
	<i>For Up To 500, Add</i>	9.16	
	<i>For >500 To 1,000, Add</i>	5.16	
31 25 14 23-0046	SF 6" Open Cell Articulated Concrete Block With Earth Backfill	45.55	
	<i>For Up To 500, Add</i>	10.37	
	<i>For >500 To 1,000, Add</i>	5.81	
31 25 14 23-0047	SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	51.86	
	<i>For Up To 500, Add</i>	11.76	
	<i>For >500 To 1,000, Add</i>	6.57	
31 25 14 23-0048	SF 9" Open Cell Articulated Concrete Block With Earth Backfill	58.37	
	<i>For Up To 500, Add</i>	13.21	
	<i>For >500 To 1,000, Add</i>	7.37	
31 25 14 23-0049	SF 4.75" Closed Cell Articulated Concrete Block	42.62	
	<i>For Up To 500, Add</i>	9.68	
	<i>For >500 To 1,000, Add</i>	5.41	
31 25 14 23-0050	SF 6" Closed Cell Articulated Concrete Block	48.61	
	<i>For Up To 500, Add</i>	10.98	
	<i>For >500 To 1,000, Add</i>	6.12	
31 25 14 23-0051	SF 7.5" Closed Cell Articulated Concrete Block	55.49	
	<i>For Up To 500, Add</i>	12.48	
	<i>For >500 To 1,000, Add</i>	6.93	
31 25 14 23-0052	SF 9" Closed Cell Articulated Concrete Block	62.53	
	<i>For Up To 500, Add</i>	14.04	
	<i>For >500 To 1,000, Add</i>	7.79	



Earthwork	31	13
Earth Moving	31 20	
Erosion and Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26 Stabilization Measures for Sedimentation Control <small>(31 25 14)</small>		
31 25 14 26-0001 Silt Fences And Dike Barriers <small>(31 25 14 26)</small>		
Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High <small>(31 25 14 26-0001)</small>		
See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center	4.09	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center	3.26	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center	2.42	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center	2.16	
31 25 14 26-0007 Silt Fences 3' High <small>(31 25 14 26-0001)</small>		
See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center	5.19	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center	4.30	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center	3.01	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center	2.66	
31 25 14 26-0012 Silt Dike Barrier <small>(31 25 14 26-0001)</small>		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes	5.60	
31 25 14 26-0014 Silt Fences Removal <small>(31 25 14 26-0001)</small>		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes	0.90	
31 25 14 26-0016 Hay And Straw Bales <small>(31 25 14 26)</small>		
Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales	4.58	
Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of straw bale.		
31 25 14 26-0018 LF Place Hay Bales	4.31	
Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of hay bale.		
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes	12.91	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales	1.61	
Note: Includes removal of stakes.		
31 25 14 26-0021 Sediment Logs (Degradable) <small>(31 25 14 26)</small>		
31 25 14 26-0022 Sediment Logs (Degradable) <small>(31 25 14 26-0021)</small>		
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 9" Sediment Fiber Roll Log	7.42	
31 25 14 26-0024 LF 12" Sediment Fiber Roll Log	8.65	
31 25 14 26-0025 LF 20" Sediment Fiber Roll Log	13.81	
31 25 14 26-0026 Wattles (Degradable) With UV Stabilized Synthetic Netting <small>(31 25 14 26-0021)</small>		
Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 8" x 25'	136.39	
31 25 14 26-0028 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'	145.03	
31 25 14 26-0029 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'	161.18	
31 25 14 26-0030 EA Wattles (Sterile Straw Filled Rolls), 20" x 10'	187.69	
31 25 14 26-0031 Fiber Roll (CALTRANS Type 1) <small>(31 25 14 26)</small>		
Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0032 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	7.13	
For >1,000 To 10,000, Deduct		-0.81
For >10,000, Deduct		-1.36
31 25 14 26-0033 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	7.51	
For >1,000 To 10,000, Deduct		-0.82
For >10,000, Deduct		-1.39
31 25 14 26-0034 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	10.18	
For >1,000 To 10,000, Deduct		-1.00
For >10,000, Deduct		-1.70
31 25 14 26-0035 Fiber Roll (CALTRANS Type 2) <small>(31 25 14 26)</small>		
Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0036 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.76	
For >1,000 To 10,000, Deduct		-0.60
For >10,000, Deduct		-1.02
31 25 14 26-0037 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.33	
For >1,000 To 10,000, Deduct		-0.64
For >10,000, Deduct		-1.09
31 25 14 26-0038 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	8.36	
For >1,000 To 10,000, Deduct		-0.72
For >10,000, Deduct		-1.24

31	31	Earthwork
	31 20	Earth Moving
	31 25	Erosion and Sedimentation Controls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 25 14 26-0039	Inlet Protection Sediment Bags ^(31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.	
31 25 14 26-0040 EA	2' x 2' x 3' Inlet Protection Sediment Bag	88.52
31 25 14 26-0041 EA	2' x 3' x 3' Inlet Protection Sediment Bag	103.86
31 25 14 26-0042 EA	2' x 4' x 3' Inlet Protection Sediment Bag	113.44
31 25 14 26-0043	Clean Sediment Logs/Wattles ^(31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.	
31 25 14 26-0044 EA	Clean Sediment Logs/Wattles	90.00

31 30 Earthwork Methods ⁽³¹⁾

31 31 Soil Treatment ^(31 30)

31 31 16 Termite Control ^(31 31)

31 31 16 13 Chemical Termite Control ^(31 31 16)

31 31 16 13-0001	Commercial Use ^(31 31 16 13)	
31 31 16 13-0002 SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	1.11
31 31 16 13-0003 SF	Termite Pretreatment, Commercial Slab And Walls	1.54
31 31 16 13-0004	Residential Use ^(31 31 16 13)	
31 31 16 13-0005 SF	Termite Pretreatment, Residential General Spraying Walls And Slab	1.53
31 31 16 13-0006 SF	Termite Treatment, Existing Residential Structure	1.65

31 31 19 Vegetation Control ^(31 31)

31 31 19 13 Chemical Vegetation Control ^(31 31 19)

31 31 19 13-0001	Soil Sterilants ^(31 31 19 13)	
31 31 19 13-0002 MSF	Soil Sterilant	32.96
	Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.	
	For >45 To 90, Deduct	-0.49
	For >90 To 225, Deduct	-2.62
	For >225, Deduct	-3.59

31 32 Soil Stabilization ^(31 30)

31 32 13 Soil Mixing Stabilization ^(31 32)

31 32 13 16 Cement Soil Stabilization ^(31 32 13)

31 32 13 16-0001	Soil Cement Course ^(31 32 13 16) Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.	
31 32 13 16-0002 CY	Compacted Soil Cement Course, Material mixed in Central Plant	83.90
31 32 13 16-0003 CY	Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement	88.42
31 32 13 16-0004 LB	Cement, Per Unit Of Measure	0.05
31 32 13 16-0005 LB	Flake Calcium Chloride, Per Unit Of Measure	1.98
31 32 13 16-0006 EA	Mobilize And Demobilize Traveling Pugmill	150.00

31 32 13 16-0007 Cementitious Soil Binder ^(31 32 13 16)

31 32 13 16-0008 CY	Cementitious Soil Binder, 4% Cement Mix By Volume	39.69
31 32 13 16-0009 CY	Cementitious Soil Binder, 6% Cement Mix By Volume	45.32
31 32 13 16-0010 CY	Cementitious Soil Binder, 9% Cement Mix By Volume	54.59
31 32 13 16-0011 CY	Cementitious Soil Binder, 12% Cement Mix By Volume	63.72

31 32 13 19 Lime Soil Stabilization ^(31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 32 13 19-0001	Lime Slurry ^(31 32 13 19)	
31 32 13 19-0002 LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	35.97
31 32 13 19-0003 TON	Cement Stabilized Base Material	115.65
31 32 13 19-0004 CWT	Lime For Soil Stabilization	18.34
	Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005 LCY	Roller, Grader - Lime Stabilization	19.02
31 32 13 19-0006 LCY	Roller, Grader - Cement Stabilization	4.39

31 32 13 19-0007 Lime Stabilized Subgrade ^(31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 19-0008 SY 6" Thick Lime Stabilized Subgrade, 25 LB..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i>	11.89 -0.33 0.33	
31 32 13 19-0009 SY 7" Thick Lime Stabilized Subgrade, 29 LB..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i>	13.81 -0.38 0.38	
31 32 13 19-0010 SY 8" Thick Lime Stabilized Subgrade, 33 LB..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i>	15.76 -0.43 0.43	
31 32 13 19-0011 SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	19.69 -0.54 0.54 -1.33	
31 32 13 19-0012 SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	23.63 -0.64 0.64 -1.59	
31 32 13 19-0013 SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	27.53 -0.75 0.75 -1.85	
31 32 13 19-0014 SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	31.49 -0.86 0.86 -2.12	
31 32 13 19-0015 SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	35.44 -0.96 0.96 -2.39	
31 32 13 19-0016 Hydrated Lime Stabilized Subgrade ^(31 32 13 19) Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.		
31 32 13 19-0017 CY Compacted Hydrated Lime Stabilized Subgrade.....	71.41	
31 32 13 19-0018 LB Hydrated Lime	1.65	
31 32 13 29 Liquid Soil Stabilization ^(31 32 13)		
31 32 13 29-0001 GAL Polyacrylamide And Calcium Solution	2.67	
31 32 19 Geosynthetic Soil Stabilization and Layer Separation ^(31 32)		
31 32 19 13 Geogrid Soil Stabilization ^(31 32 19)		
31 32 19 13-0001 Geogrid Fabrics ^(31 32 19 13) Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.		
31 32 19 13-0002 SY 5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	5.42 1.20 0.89 0.58 0.29	
31 32 19 13-0003 SY 6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	6.19 1.36 1.01 0.66 0.33	
31 32 19 13-0004 SY 8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	6.75 1.47 1.09 0.72 0.36	
31 32 19 13-0005 SY 12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	9.73 2.07 1.54 1.02 0.51	
31 32 19 13-0006 SY 14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	11.14 2.36 1.76 1.16 0.58	
31 32 19 13-0007 SY 4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	5.51 1.21 0.90 0.59 0.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 19 13-0008	SY		5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	8.13	
			<i>For Up To 50, Add</i>	1.74	
			<i>For >50 To 150, Add</i>	1.30	
			<i>For >150 To 250, Add</i>	0.85	
			<i>For >250 To 500, Add</i>	0.43	

31 32 19 16 Geotextile Soil Stabilization (31 32 19)

31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)

Note: For drainage, filtration and separation.

31 32 19 16-0002	SY		3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	1.68	
			<i>For Up To 50, Add</i>	0.38	
			<i>For >50 To 150, Add</i>	0.28	
			<i>For >150 To 250, Add</i>	0.18	
			<i>For >250 To 500, Add</i>	0.09	
31 32 19 16-0003	SY		3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	1.80	
			<i>For Up To 50, Add</i>	0.40	
			<i>For >50 To 150, Add</i>	0.30	
			<i>For >150 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0004	SY		4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	1.95	
			<i>For Up To 50, Add</i>	0.43	
			<i>For >50 To 150, Add</i>	0.32	
			<i>For >150 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0005	SY		4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	2.10	
			<i>For Up To 50, Add</i>	0.46	
			<i>For >50 To 150, Add</i>	0.34	
			<i>For >150 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.11	
31 32 19 16-0006	SY		6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	2.50	
			<i>For Up To 50, Add</i>	0.54	
			<i>For >50 To 150, Add</i>	0.40	
			<i>For >150 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.13	
31 32 19 16-0007	SY		7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	2.93	
			<i>For Up To 50, Add</i>	0.64	
			<i>For >50 To 150, Add</i>	0.48	
			<i>For >150 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.16	
31 32 19 16-0008	SY		8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	3.23	
			<i>For Up To 50, Add</i>	0.70	
			<i>For >50 To 150, Add</i>	0.52	
			<i>For >150 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.17	
31 32 19 16-0009	SY		10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	3.99	
			<i>For Up To 50, Add</i>	0.85	
			<i>For >50 To 150, Add</i>	0.63	
			<i>For >150 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.21	
31 32 19 16-0010	SY		16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	6.84	
			<i>For Up To 50, Add</i>	1.42	
			<i>For >50 To 150, Add</i>	1.06	
			<i>For >150 To 250, Add</i>	0.70	
			<i>For >250 To 500, Add</i>	0.35	

31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)

31 32 19 16-0012	SY		200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55).....	2.44	
			<i>For Up To 50, Add</i>	0.53	
			<i>For >50 To 150, Add</i>	0.39	
			<i>For >150 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.13	
31 32 19 16-0013	SY		315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66).....	3.43	
			<i>For Up To 50, Add</i>	0.73	
			<i>For >50 To 150, Add</i>	0.54	
			<i>For >150 To 250, Add</i>	0.36	
			<i>For >250 To 500, Add</i>	0.18	
31 32 19 16-0014	SY		4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	6.07	
			<i>For Up To 50, Add</i>	1.27	
			<i>For >50 To 150, Add</i>	0.95	
			<i>For >150 To 250, Add</i>	0.63	
			<i>For >250 To 500, Add</i>	0.31	
31 32 19 16-0015	SY		11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	5.92	
			<i>For Up To 50, Add</i>	1.24	
			<i>For >50 To 150, Add</i>	0.92	
			<i>For >150 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.31	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				31 32 19 16-0016 SY 6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF).....	5.17	
				For Up To 50, Add	1.09	
				For >50 To 150, Add	0.81	
				For >150 To 250, Add	0.54	
				For >250 To 500, Add	0.27	
				31 32 19 16-0017 SY 9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF).....	5.53	
				For Up To 50, Add	1.16	
				For >50 To 150, Add	0.87	
				For >150 To 250, Add	0.57	
				For >250 To 500, Add	0.29	
				31 32 19 16-0018 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	7.07	
				For Up To 50, Add	1.47	
				For >50 To 150, Add	1.10	
				For >150 To 250, Add	0.73	
				For >250 To 500, Add	0.36	
				31 32 19 16-0019 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF).....	10.09	
				For Up To 50, Add	2.07	
				For >50 To 150, Add	1.55	
				For >150 To 250, Add	1.03	
				For >250 To 500, Add	0.51	
				31 32 19 16-0020 Geomembranes <small>(31 32 19 16)</small>		
				31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane <small>(31 32 19 16-0020)</small>		
				31 32 19 16-0022 SF 20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.44	
				31 32 19 16-0023 SF 30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.67	
				31 32 19 16-0024 SF 40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.02	
				31 32 19 16-0025 SF 50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.43	
				31 32 19 16-0026 SF 60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.78	
				31 32 19 16-0027 SF 70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.04	
				31 32 19 16-0028 SF 80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.29	
				31 32 19 16-0029 SF 90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.64	
				31 32 19 16-0030 SF 100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.98	
				31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane <small>(31 32 19 16-0020)</small>		
				31 32 19 16-0032 SF 20 Mil High Density Polyethylene Membrane (US Fabrics).....	1.46	
				31 32 19 16-0033 SF 30 Mil High Density Polyethylene Membrane (US Fabrics).....	0.97	
				31 32 19 16-0034 SF 40 Mil High Density Polyethylene Membrane (US Fabrics).....	1.07	
				31 32 19 16-0035 SF 50 Mil High Density Polyethylene Membrane (US Fabrics).....	1.52	
				31 32 19 16-0036 SF 60 Mil High Density Polyethylene Membrane (US Fabrics).....	1.26	
				31 32 19 16-0037 SF 80 Mil High Density Polyethylene Membrane (US Fabrics).....	1.46	
				31 32 19 16-0038 SF 100 Mil High Density Polyethylene Membrane (US Fabrics).....	1.67	
				31 32 19 16-0039 SF 120 Mil High Density Polyethylene Membrane (US Fabrics).....	2.71	
				31 32 19 16-0040 SF 140 Mil High Density Polyethylene Membrane (US Fabrics).....	2.80	
				31 32 19 16-0041 Rock Slope Protection Fabric (Monterey County) <small>(31 32 19 16)</small>		
				31 32 19 16-0042 SY Rock Slope Protection Fabric, Drainage Outlet (Monterey County).....	12.92	
				31 32 19 26 Geoweb Cellular Confinement System <small>(31 32 19)</small>		
				Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
				31 32 19 26-0001 Geoweb Cellular Confinement System <small>(31 32 19 26)</small>		
				Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
				31 32 19 26-0002 SF 4" Geoweb Cellular Confinement System (Presto Geosystems).....	7.69	
				For >20,000, Deduct	-0.19	
				For >2:1 Slope, Add	1.27	
				31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems).....	9.41	
				For >20,000, Deduct	-0.28	
				For >2:1 Slope, Add	1.27	
				31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems).....	11.46	
				For >20,000, Deduct	-0.38	
				For >2:1 Slope, Add	1.27	
				31 32 36 Soil Nailing <small>(31 32)</small>		
				31 32 36 11 Soil Nailing Stabilization <small>(31 32 36)</small>		

31	31 Earthwork
	31 30 Earthwork Methods
	31 32 Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0001	 Landslide and Slip-Out Stabilization <small>(31 32 36 11)</small> Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.	
31 32 36 11-0002	 BioWall® <small>(31 32 36 11-0001)</small> Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ½(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0003	SF BioWall® Construction	25.00
31 32 36 11-0004	 Green Terra Mesh <small>(31 32 36 11-0001)</small> Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0005	EA Green Terra Mesh	635.25
31 32 36 11-0006	 GeoSynthetically Confined Soil™ (GCS®) Components <small>(31 32 36 11-0001)</small> Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of th See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0007	SF GeoSynthetically Confined Soil™ (GCS®) Wall Construction	23.75
31 32 36 11-0008	EA GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120")	108.50
31 32 36 11-0009	EA GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16")	6.50
31 32 36 11-0010	SF GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75
31 32 36 11-0011	 Turf <small>(31 32 36 11-0001)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0012	 Permanent Turf Reinforcing Mat (TRM) <small>(31 32 36 11-0011)</small> Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.	
31 32 36 11-0013	SF Permanent Turf Reinforcement Mat..... Note: sold per square face foot	1.50



	Earthwork	31	
	Earthwork Methods	31 30	13
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0014		
Biodegradable Turf Reinforcing Mat (TRM) <small>(31 32 36 11-0011)</small>		
Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.		
31 32 36 11-0015 SF	Biodegradable Turf Reinforcement Mat.....	0.75
Note: sold per square face foot		
31 32 36 11-0016		
Shotcrete or Gunite <small>(31 32 36 11-0001)</small>		
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0017		
Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small>		
Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying		
31 32 36 11-0018 SFI	Wet-Mix Reinforced Shotcrete.....	5.50
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0019		<p>Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small></p> <p>Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6</p>	8.50
31 32 36 11-0020	SFI	<p>Dry-Mix Reinforced Gunite.....</p> <p>Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).</p>	8.50
31 32 36 11-0021		<p>Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small></p>	
31 32 36 11-0022	SFI	<p>Steel Fiber Reinforcement.....</p> <p>Note: sold per inch thickness over one square face foot of area</p>	1.25
31 32 36 11-0023		<p>Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0001)</small></p> <p>Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).</p>	
31 32 36 11-0024		<p>Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0023)</small></p> <p>Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.</p>	
31 32 36 11-0025	SF	<p>High Capacity Diamond Mesh</p> <p>Note: sold per square face foot</p>	11.00
31 32 36 11-0026	SF	<p>Double Twist Wire Mesh.....</p> <p>Note: sold per square face foot</p>	13.75
31 32 36 11-0027		<p>Steel Plates <small>(31 32 36 11-0023)</small></p>	
31 32 36 11-0028	EA	Galvanized Steel Plates (8x8).....	35.00
31 32 36 11-0029	EA	Galvanized Steel Plates (10x10).....	54.75
31 32 36 11-0030	EA	Galvanized Steel Plates (12x12).....	78.75
31 32 36 11-0031	EA	Epoxy Coated Steel Plates (8x8)	76.00
31 32 36 11-0032	EA	Epoxy Coated Steel Plates (10x10).....	89.25
31 32 36 11-0033	EA	Epoxy Coated Steel Plates (12x12).....	105.25



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0034

Drilled Horizontal Drains (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039

Rockfall Stabilization (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing.....	825.00

31 32 36 11-0062

Mobilization / Demobilization (31 32 36 11-0001)

31 32 36 11-0063	EA	Mobilization - In State.....	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder.....	9,800.00

31 32 36 11-0066

Daily Crew Rates (DCR) (31 32 36 11-0001)

31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR, Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation.....	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13

Driven Soil Nailing (31 32 36)

31 32 36 13-0001

Large Diameter Micropiles (31 32 36 13)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16

Grouted Soil Nailing (31 32 36)

31 32 36 16-0001

Grouting (31 32 36 16)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 16-0002	Compaction Grouting <small>(31 32 36 16-0001)</small>	
	<p>Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.</p>	
31 32 36 16-0003	LF Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004	CF Compaction Grout Injection for Soils Densification	55.50
31 32 36 16-0005	CF Compaction Grout For Void Fill.....	39.00

31 32 36 16-0006	Polyurethane Grouting <small>(31 32 36 16-0001)</small>	
	<p>Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.</p>	
31 32 36 16-0007	LB Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50

31 32 36 19 Corrosion-Protected Soil Nailing (31 32 36)

31 32 36 19-0001	Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 19)</small>	
	<p>Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).</p>	
31 32 36 19-0002	Self-Drilling SuperNails® <small>(31 32 36 19-0001)</small>	
31 32 36 19-0003	EA Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004	EA Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005	EA Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006	EA Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007	EA Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008	EA Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009	EA Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010	EA Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011	EA Additional Cost for 10' High Capacity X-51 Bar.....	129.50

31 32 36 19-0012	SuperNail® Testing <small>(31 32 36 19)</small>	
	<p>Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).</p>	



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 19-0013	EA	SuperNail® Proof Testing.....	769.00
31 32 36 19-0014	EA	SuperNail® Verification Testing.....	2,339.75

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001 Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)

Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length.	605.00
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20' Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	621.50
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	478.50
31 32 36 26-0005	EA	Temporary Launched Soil Nail..... Note: bare steel tube up to 20 ft. length.	379.50
31 32 36 26-0006	EA	Fiberglass SuperDrain™..... Note: perforated fiberglass tube up to 20 ft. length.	495.00
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™ Note: perforated GalvaDized™ steel tube up to 20 ft. length.	379.50

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	602.25
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	693.50
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	921.50
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,056.00
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,171.50
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,376.50
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,624.75
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,872.75

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001 Drilled / Launched SuperMicropiles™ (31 32 36 33)

Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	695.00
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,020.00
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,280.00
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,540.00

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900).....5.32

31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection75.91
 31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection89.80
 31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection108.83
 31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection128.37
 31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection150.65
 31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection206.37
 31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection261.01

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001 Random - Filter Stone (31 37 13)

31 37 13 00-0002 CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap90.17
For Chinking Material, Add14.31
 31 37 13 00-0003 CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap105.65
For Chinking Material, Add14.31
 31 37 13 00-0004 CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap112.94
For Chinking Material, Add14.31
 31 37 13 00-0005 CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap121.24
For Chinking Material, Add14.31
 31 37 13 00-0006 CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap127.93
For Chinking Material, Add14.31
 31 37 13 00-0007 CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap138.87
 31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap155.09
 31 37 13 00-0009 TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap59.23
 31 37 13 00-0010 TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap69.05
 31 37 13 00-0011 TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap73.68
 31 37 13 00-0012 TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap78.95
 31 37 13 00-0013 TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap83.20
 31 37 13 00-0014 TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap90.23
 31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap103.58

31 40 Shoring and Underpinning (31)

31 41 Shoring (31 40)

31 41 13 Timber Shoring (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage13.90
For Wood Sheeting Left In Place-1.60
 31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage15.06
For Wood Sheeting Left In Place-1.84
 31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage16.34
For Wood Sheeting Left In Place-2.09
 31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage17.71
For Wood Sheeting Left In Place-2.38
 31 41 13 00-0007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage19.20
For Wood Sheeting Left In Place-2.69
 31 41 13 00-0008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage20.82
For Wood Sheeting Left In Place-3.04
 31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage22.60
For Wood Sheeting Left In Place-3.41



	Earthwork	31	
	Shoring and Underpinning	31 40	13
	Shoring	31 41	

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 41 16 Sheet Piling (31 41)

31 41 16 13 Steel Sheet Piling (31 41 16)

31 41 16 13-0001

Standard Carbon Grade Steel Sheeting - Pull And Salvage (31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....	2,256.22	
	<i>For Standard Sheeting Left In Place, Add</i>	1,199.65	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,154.01	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	
31 41 16 13-0003	TON Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....	2,347.03	
	<i>For Standard Sheeting Left In Place, Add</i>	1,154.25	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,108.61	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	
31 41 16 13-0004	TON Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,769.25	
	<i>For Standard Sheeting Left In Place, Add</i>	943.14	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	897.50	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	
31 41 16 13-0005	TON Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,175.54	
	<i>For Standard Sheeting Left In Place, Add</i>	739.99	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	694.35	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	
31 41 16 13-0006	TON Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,414.53	
	<i>For Standard Sheeting Left In Place, Add</i>	620.50	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	574.86	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	
31 41 16 13-0007	TON Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,658.31	
	<i>For Standard Sheeting Left In Place, Add</i>	498.61	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	452.97	
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	102.70	
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	114.11	
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	353.73	
	<i>For Each Additional Month >3 Months, Add</i>	57.05	

31 43 Concrete Raising (31 40)

31 43 13 Pressure Grouting (31 43)

31 43 13 16 Polyurethane Pressure Grouting (31 43 13)

31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling (31 43 13 16)

31 43 13 16-0002	EA Mobilization PolyLift™ Concrete Lifting And Leveling Minimum Charge.....	3,664.51
31 43 13 16-0003	LB Up To 1,000 Lbs PolyLift™ Concrete Injection For Lifting And Leveling.....	30.04
	Note: Per pound of material.	
31 43 13 16-0004	LB >1,000 Lbs PolyLift™ Concrete Injection For Lifting And Leveling.....	25.17
	Note: Per pound of material.	

31 45 Vibroflotation and Densification (31 40)

31 45 13 Vibroflotation (31 45)

31 45 13 00-0001	LCY Soil Stabilization, Vibroflotation.....	16.48
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31 60 Special Foundations and Load-bearing Elements (31)

31 62 Driven Piles (31 60)

31 62 13 Concrete Piles (31 62)

31 62 13 23 Prestressed Concrete Piles (31 62 13)

31 62 13 23-0001 Square Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0002	VLF 10" Square Prestressed Driven Concrete Pile.....	35.36
	<i>For Piles Driven In Water, Add</i>	17.10

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile	44.39	
<i>For Piles Driven In Water, Add</i>	19.28	
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile	53.83	
<i>For Piles Driven In Water, Add</i>	21.21	
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile	65.96	
<i>For Piles Driven In Water, Add</i>	23.56	
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile	80.08	
<i>For Piles Driven In Water, Add</i>	26.27	
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile	92.65	
<i>For Piles Driven In Water, Add</i>	29.05	
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile	118.21	
<i>For Piles Driven In Water, Add</i>	33.41	
31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile	39.74	
<i>For Piles Driven In Water, Add</i>	17.94	
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile	48.78	
<i>For Piles Driven In Water, Add</i>	19.72	
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile	57.96	
<i>For Piles Driven In Water, Add</i>	21.63	
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile	69.31	
<i>For Piles Driven In Water, Add</i>	23.90	
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile	73.77	
<i>For Piles Driven In Water, Add</i>	25.64	
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile	78.50	
<i>For Piles Driven In Water, Add</i>	27.63	
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	57.10	
<i>For Piles Driven In Water, Add</i>	18.90	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	67.65	
<i>For Piles Driven In Water, Add</i>	20.73	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile	80.14	
<i>For Piles Driven In Water, Add</i>	22.86	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	90.67	
<i>For Piles Driven In Water, Add</i>	24.90	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile	113.94	
<i>For Piles Driven In Water, Add</i>	28.36	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile	140.79	
<i>For Piles Driven In Water, Add</i>	32.34	
31 62 16 Steel Piles <small>(31 62)</small>		
31 62 16 16 Steel H Piles <small>(31 62 16)</small>		
31 62 16 16-0001 Rolled, Driven Steel H Piles <small>(31 62 16 16)</small>		
31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile	35.45	
<i>For Piles Driven In Water, Add</i>	18.39	
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile	39.43	
<i>For Piles Driven In Water, Add</i>	19.52	
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile	47.33	
<i>For Piles Driven In Water, Add</i>	20.31	
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile	45.73	
<i>For Piles Driven In Water, Add</i>	20.61	
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile	51.00	
<i>For Piles Driven In Water, Add</i>	21.14	
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile	58.27	
<i>For Piles Driven In Water, Add</i>	23.20	
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile	63.54	
<i>For Piles Driven In Water, Add</i>	23.72	
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile	58.22	
<i>For Piles Driven In Water, Add</i>	23.62	
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile	67.18	
<i>For Piles Driven In Water, Add</i>	24.52	
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile	75.16	
<i>For Piles Driven In Water, Add</i>	26.81	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile	83.58	
<i>For Piles Driven In Water, Add</i>	27.65	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles <small>(31 62 16 16)</small>		
31 62 16 16-0014 Rolled Steel H Pile Splices <small>(31 62 16 16-0013)</small>		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice	311.70	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice	349.11	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice	478.85	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice	497.56	
31 62 16 16-0019 Rolled Steel H Driving Caps <small>(31 62 16 16-0013)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap.....	3,110.94	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap.....	3,110.94	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap.....	3,169.23	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap.....	4,759.00	
31 62 16 16-0024 Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point.....	330.41	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point.....	349.11	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point.....	478.85	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point.....	534.96	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point.....	478.85	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point.....	571.19	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001 Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002 VLF 8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile.....	62.86	
<i>For Piles Driven In Water, Add</i>	25.28	
31 62 16 19-0003 VLF 8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile.....	73.30	
<i>For Piles Driven In Water, Add</i>	26.32	
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile.....	84.57	
<i>For Piles Driven In Water, Add</i>	27.45	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile.....	73.30	
<i>For Piles Driven In Water, Add</i>	26.32	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile.....	83.22	
<i>For Piles Driven In Water, Add</i>	27.31	
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile.....	105.14	
<i>For Piles Driven In Water, Add</i>	29.50	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile.....	86.70	
<i>For Piles Driven In Water, Add</i>	28.66	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile.....	98.31	
<i>For Piles Driven In Water, Add</i>	29.82	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile.....	104.76	
<i>For Piles Driven In Water, Add</i>	30.47	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile.....	122.82	
<i>For Piles Driven In Water, Add</i>	32.27	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile.....	93.67	
<i>For Piles Driven In Water, Add</i>	31.45	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile.....	106.81	
<i>For Piles Driven In Water, Add</i>	32.77	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile.....	119.94	
<i>For Piles Driven In Water, Add</i>	34.08	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile.....	133.08	
<i>For Piles Driven In Water, Add</i>	35.39	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile.....	104.20	
<i>For Piles Driven In Water, Add</i>	35.09	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile.....	119.56	
<i>For Piles Driven In Water, Add</i>	36.63	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile.....	149.50	
<i>For Piles Driven In Water, Add</i>	39.62	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile.....	129.49	
<i>For Piles Driven In Water, Add</i>	39.71	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile.....	149.44	
<i>For Piles Driven In Water, Add</i>	41.70	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile.....	187.34	
<i>For Piles Driven In Water, Add</i>	45.49	
31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023 Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice.....	502.15	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice.....	571.71	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice.....	712.63	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice.....	781.23	
31 62 16 19-0028 EA 16" Diameter, Steel Pipe Pile Splice.....	989.44	
31 62 16 19-0029 EA 18" Diameter, Steel Pipe Pile Splice.....	1,239.31	
31 62 16 19-0030 Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031 EA 8" Diameter, Steel Pipe Standard Pile Point.....	436.96	
31 62 16 19-0032 EA 10" Diameter, Steel Pipe Standard Pile Point.....	492.67	
31 62 16 19-0033 EA 12" Diameter, Steel Pipe Standard Pile Point.....	571.16	
31 62 16 19-0034 EA 14" Diameter, Steel Pipe Standard Pile Point.....	724.37	
31 62 16 19-0035 EA 16" Diameter, Steel Pipe Standard Pile Point.....	863.65	
31 62 16 19-0036 EA 18" Diameter, Steel Pipe Standard Pile Point.....	984.43	
31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0022)		
31 62 16 19-0038 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point.....	606.02	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy Duty Pile Point	675.66	
	31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy Duty Pile Point	776.99	
	31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy Duty Pile Point	1,055.55	
	31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy Duty Pile Point	1,256.33	
31 62 19 Timber Piles ^(31 62)					
31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles ^(31 62 19)					
Note: 12 LB Penta-treated/CF.					
	31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	33.41	
			<i>For Piles Driven In Water, Add</i>	16.54	
			<i>For Untreated Pile, Deduct</i>	-6.94	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
	31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	35.45	
			<i>For Piles Driven In Water, Add</i>	18.39	
			<i>For Untreated Pile, Deduct</i>	-7.02	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
	31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	37.41	
			<i>For Piles Driven In Water, Add</i>	19.57	
			<i>For Untreated Pile, Deduct</i>	-7.33	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
	31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	40.49	
			<i>For Piles Driven In Water, Add</i>	21.85	
			<i>For Untreated Pile, Deduct</i>	-7.66	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
	31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	49.69	
			<i>For Piles Driven In Water, Add</i>	24.75	
			<i>For Untreated Pile, Deduct</i>	-10.25	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
	31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	61.82	
			<i>For Piles Driven In Water, Add</i>	29.92	
			<i>For Untreated Pile, Deduct</i>	-13.11	
			<i>For Each Pile Tip Point, Add</i>	12.50	
			<i>For Each Pile Butt, Driving Cap, Add</i>	20.10	
			<i>For Each Splice For Pile >50', Add</i>	139.40	
31 62 23 Composite Piles ^(31 62)					
31 62 23 13 Concrete-Filled Steel Piles ^(31 62 23)					
31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles ^(31 62 23 13)					
Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.					
	31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	66.78	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	7.18	
			<i>For Piles Driven In Water, Add</i>	27.32	
	31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	77.22	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	8.23	
			<i>For Piles Driven In Water, Add</i>	28.37	
	31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	88.49	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	9.36	
			<i>For Piles Driven In Water, Add</i>	29.50	
	31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	78.95	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	9.91	
			<i>For Piles Driven In Water, Add</i>	29.00	
	31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	88.87	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	10.90	
			<i>For Piles Driven In Water, Add</i>	29.99	
	31 62 23 13-0007	VLF	10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	110.79	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	13.09	
			<i>For Piles Driven In Water, Add</i>	32.18	
	31 62 23 13-0008	VLF	12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	94.64	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	13.21	
			<i>For Piles Driven In Water, Add</i>	32.35	
	31 62 23 13-0009	VLF	12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	106.25	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	14.37	
			<i>For Piles Driven In Water, Add</i>	33.51	
	31 62 23 13-0010	VLF	12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	112.70	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	15.02	
			<i>For Piles Driven In Water, Add</i>	34.16	
	31 62 23 13-0011	VLF	12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	130.76	
			<i>For 5,000 PSI Concrete Grout Fill, Add</i>	16.82	
			<i>For Piles Driven In Water, Add</i>	35.96	



Earthwork	31	
Special Foundations and Load-bearing Elements	31 60	13
Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	104.49 16.03 37.21	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	117.63 17.34 38.52	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	130.76 18.65 39.83	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	143.90 19.97 41.15	
31 62 23 13-0016 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	115.73 19.59 39.92	
31 62 23 13-0017 VLF 16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	131.09 21.13 41.46	
31 62 23 13-0018 VLF 16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	161.03 24.12 44.45	
31 62 23 13-0019 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	143.30 25.09 44.97	
31 62 23 13-0020 VLF 18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	163.25 27.08 46.96	
31 62 23 13-0021 VLF 18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	201.15 30.87 50.75	
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	89.48 24.78	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	109.13 27.88	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	123.75 30.64	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	134.63 33.25	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	87.71 24.60	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	89.85 25.95	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	110.24 29.29	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	127.49 32.53	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles <small>(31 62 23 13)</small>		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	51.78 18.53 0.09	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	57.14 20.56 0.10	
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	62.45 22.57 0.11	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	67.80 24.58 0.12	
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	73.17 26.61 0.13	
31 63 Bored Piles <small>(31 60)</small>		
31 63 36 Drilled Steel Piles <small>(31 63)</small>		
31 63 36 00-0001 Drill Hole <small>(31 63 36)</small> Note: Excludes removal of excess material.		
31 63 36 00-0002 Drilling Mobilization <small>(31 63 36 00-0001)</small>		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	977.00	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	1,302.67	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 63 36 00-0005	Drill Hole In Soil <small>(31 63 36 00-0001)</small>		
31 63 36 00-0006	LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	55.57	
31 63 36 00-0007	LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	64.62	
31 63 36 00-0008	LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	75.92	
31 63 36 00-0009	LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	89.49	
31 63 36 00-0010	LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	96.73	
31 63 36 00-0011	LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	106.43	
31 63 36 00-0012	LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	116.58	
31 63 36 00-0013	Steel H Piles <small>(31 63 36)</small>		
31 63 36 00-0014	Placed In Drilled Hole, Rolled Steel H-Section Piles <small>(31 63 36 00-0013)</small>		
	Note: Includes guides, bracing and alignment.		
31 63 36 00-0015	VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	32.01	
	For >2,400 To 3,600, Deduct	-1.13	
	For >3,600 To 4,800, Deduct	-2.25	
	For >4,800 To 6,000, Deduct	-3.85	
	For >6,000, Deduct	-5.45	
31 63 36 00-0016	VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	35.82	
	For >2,400 To 3,600, Deduct	-1.24	
	For >3,600 To 4,800, Deduct	-2.48	
	For >4,800 To 6,000, Deduct	-4.27	
	For >6,000, Deduct	-6.06	
31 63 36 00-0017	VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	43.72	
	For >2,400 To 3,600, Deduct	-1.44	
	For >3,600 To 4,800, Deduct	-2.87	
	For >4,800 To 6,000, Deduct	-5.06	
	For >6,000, Deduct	-7.24	
31 63 36 00-0018	VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	42.01	
	For >2,400 To 3,600, Deduct	-1.40	
	For >3,600 To 4,800, Deduct	-2.81	
	For >4,800 To 6,000, Deduct	-4.91	
	For >6,000, Deduct	-7.01	
31 63 36 00-0019	VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	47.28	
	For >2,400 To 3,600, Deduct	-1.53	
	For >3,600 To 4,800, Deduct	-3.07	
	For >4,800 To 6,000, Deduct	-5.43	
	For >6,000, Deduct	-7.80	
31 63 36 00-0020	VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	54.25	
	For >2,400 To 3,600, Deduct	-1.74	
	For >3,600 To 4,800, Deduct	-3.48	
	For >4,800 To 6,000, Deduct	-6.19	
	For >6,000, Deduct	-8.90	
31 63 36 00-0021	VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	59.52	
	For >2,400 To 3,600, Deduct	-1.87	
	For >3,600 To 4,800, Deduct	-3.74	
	For >4,800 To 6,000, Deduct	-6.72	
	For >6,000, Deduct	-9.69	
31 63 36 00-0022	VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	54.09	
	For >2,400 To 3,600, Deduct	-1.74	
	For >3,600 To 4,800, Deduct	-3.49	
	For >4,800 To 6,000, Deduct	-6.19	
	For >6,000, Deduct	-8.90	
31 63 36 00-0023	VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	63.05	
	For >2,400 To 3,600, Deduct	-1.97	
	For >3,600 To 4,800, Deduct	-3.94	
	For >4,800 To 6,000, Deduct	-7.09	
	For >6,000, Deduct	-10.24	
31 63 36 00-0024	VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	70.68	
	For >2,400 To 3,600, Deduct	-2.19	
	For >3,600 To 4,800, Deduct	-4.38	
	For >4,800 To 6,000, Deduct	-7.92	
	For >6,000, Deduct	-11.45	
31 63 36 00-0025	VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	79.10	
	For >2,400 To 3,600, Deduct	-2.40	
	For >3,600 To 4,800, Deduct	-4.80	
	For >4,800 To 6,000, Deduct	-8.76	
	For >6,000, Deduct	-12.71	
31 63 36 00-0026	Welded Steel Stud Pins <small>(31 63 36 00-0013)</small>		
	Note: Includes welding to steel piles.		
31 63 36 00-0027	EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.58	
	For >50 To 150, Deduct	-0.60	
	For >150 To 250, Deduct	-1.27	
	For >250 To 500, Deduct	-1.94	
	For >500, Deduct	-2.60	
31 63 36 00-0028	EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins	17.14	
	For >50 To 150, Deduct	-0.60	
	For >150 To 250, Deduct	-1.33	
	For >250 To 500, Deduct	-2.07	
	For >500, Deduct	-2.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins	19.61	
<i>For >50 To 150, Deduct</i>	-0.60	
<i>For >150 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-2.19	
<i>For >500, Deduct</i>	-2.98	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	16.71	
<i>For >50 To 150, Deduct</i>	-0.63	
<i>For >150 To 250, Deduct</i>	-1.37	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.84	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins	20.59	
<i>For >50 To 150, Deduct</i>	-0.63	
<i>For >150 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-3.13	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins	23.31	
<i>For >50 To 150, Deduct</i>	-0.63	
<i>For >150 To 250, Deduct</i>	-1.53	
<i>For >250 To 500, Deduct</i>	-2.43	
<i>For >500, Deduct</i>	-3.33	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	19.53	
<i>For >50 To 150, Deduct</i>	-0.66	
<i>For >150 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-3.12	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins	25.85	
<i>For >50 To 150, Deduct</i>	-0.66	
<i>For >150 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.61	
<i>For >500, Deduct</i>	-3.59	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins	28.94	
<i>For >50 To 150, Deduct</i>	-0.66	
<i>For >150 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.77	
<i>For >500, Deduct</i>	-3.82	

31 63 36 00-0036

Concrete Fill (31 63 36)

See CSI section 03 37 16 00-0001 for pumping equipment.

31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	43.28
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	48.07
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	52.88
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	57.71
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	62.50
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	67.31
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	79.35

31 64 Caissons (31 60)

31 64 13 Box Caissons (31 64)

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water	57.91
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	
<i>For >50' To 100' Deep, Add</i>	5.58
<i>For >100' To 150' Deep, Add</i>	14.48
<i>For >150' To 200' Deep, Add</i>	19.28
<i>For Right Angle Drilling, Add</i>	15.50
<i>For >3 To 9, Deduct</i>	-1.43
<i>For >9, Deduct</i>	-2.96
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water	72.30
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	
<i>For >50' To 100' Deep, Add</i>	7.62
<i>For >100' To 150' Deep, Add</i>	18.08
<i>For >150' To 200' Deep, Add</i>	24.89
<i>For Right Angle Drilling, Add</i>	17.32
<i>For >3 To 9, Deduct</i>	-2.40
<i>For >9, Deduct</i>	-4.95
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water	101.96
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	
<i>For >50' To 100' Deep, Add</i>	11.21
<i>For >100' To 150' Deep, Add</i>	25.49
<i>For >150' To 200' Deep, Add</i>	35.68
<i>For Right Angle Drilling, Add</i>	22.95
<i>For >3 To 9, Deduct</i>	-3.82
<i>For >9, Deduct</i>	-7.90

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64	13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	134.53	
			<i>For >50' To 100' Deep, Add</i>	15.28	
			<i>For >100' To 150' Deep, Add</i>	33.63	
			<i>For >150' To 200' Deep, Add</i>	47.69	
			<i>For Right Angle Drilling, Add</i>	28.77	
			<i>For >3 To 9, Deduct</i>	-5.49	
			<i>For >9, Deduct</i>	-11.36	
31 64	13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	171.84	
			<i>For >50' To 100' Deep, Add</i>	20.23	
			<i>For >100' To 150' Deep, Add</i>	42.96	
			<i>For >150' To 200' Deep, Add</i>	61.81	
			<i>For Right Angle Drilling, Add</i>	34.51	
			<i>For >3 To 9, Deduct</i>	-7.69	
			<i>For >9, Deduct</i>	-15.89	
31 64	13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	206.34	
			<i>For >50' To 100' Deep, Add</i>	24.74	
			<i>For >100' To 150' Deep, Add</i>	51.59	
			<i>For >150' To 200' Deep, Add</i>	74.77	
			<i>For Right Angle Drilling, Add</i>	40.04	
			<i>For >3 To 9, Deduct</i>	-9.65	
			<i>For >9, Deduct</i>	-19.95	
31 64	13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	248.35	
			<i>For >50' To 100' Deep, Add</i>	30.70	
			<i>For >100' To 150' Deep, Add</i>	62.09	
			<i>For >150' To 200' Deep, Add</i>	91.15	
			<i>For Right Angle Drilling, Add</i>	45.32	
			<i>For >3 To 9, Deduct</i>	-12.48	
			<i>For >9, Deduct</i>	-25.80	
31 64	13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	291.10	
			<i>For >50' To 100' Deep, Add</i>	36.77	
			<i>For >100' To 150' Deep, Add</i>	72.78	
			<i>For >150' To 200' Deep, Add</i>	107.82	
			<i>For Right Angle Drilling, Add</i>	50.67	
			<i>For >3 To 9, Deduct</i>	-15.36	
			<i>For >9, Deduct</i>	-31.75	
31 64	13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	339.50	
			<i>For >50' To 100' Deep, Add</i>	43.59	
			<i>For >100' To 150' Deep, Add</i>	84.88	
			<i>For >150' To 200' Deep, Add</i>	126.64	
			<i>For Right Angle Drilling, Add</i>	56.86	
			<i>For >3 To 9, Deduct</i>	-18.59	
			<i>For >9, Deduct</i>	-38.42	
31 64	13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	395.03	
			<i>For >50' To 100' Deep, Add</i>	51.49	
			<i>For >100' To 150' Deep, Add</i>	98.76	
			<i>For >150' To 200' Deep, Add</i>	148.31	
			<i>For Right Angle Drilling, Add</i>	63.76	
			<i>For >3 To 9, Deduct</i>	-22.35	
			<i>For >9, Deduct</i>	-46.19	
31 64	13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	450.24	
			<i>For >50' To 100' Deep, Add</i>	59.50	
			<i>For >100' To 150' Deep, Add</i>	112.56	
			<i>For >150' To 200' Deep, Add</i>	170.05	
			<i>For Right Angle Drilling, Add</i>	70.15	
			<i>For >3 To 9, Deduct</i>	-26.23	
			<i>For >9, Deduct</i>	-54.21	
31 64	13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	509.13	
			<i>For >50' To 100' Deep, Add</i>	68.09	
			<i>For >100' To 150' Deep, Add</i>	127.28	
			<i>For >150' To 200' Deep, Add</i>	193.30	
			<i>For Right Angle Drilling, Add</i>	76.79	
			<i>For >3 To 9, Deduct</i>	-30.42	
			<i>For >9, Deduct</i>	-62.87	
31 64	13 00-0015		For Bell Excavation And Concrete, Add <small>(31 64 13 00-0001)</small>		
31 64	13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY <i>For >50' To 100' Deep, Add</i>	448.54	
			<i>For >100' To 150' Deep, Add</i>	36.23	
			<i>For >150' To 200' Deep, Add</i>	112.14	
			<i>For >3 To 9, Deduct</i>	140.60	
			<i>For >9, Deduct</i>	-4.53	
			<i>For >9, Deduct</i>	-9.37	
31 64	13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY <i>For >50' To 100' Deep, Add</i>	1,576.67	
			<i>For >100' To 150' Deep, Add</i>	127.55	
			<i>For >150' To 200' Deep, Add</i>	394.17	
			<i>For >3 To 9, Deduct</i>	494.49	
			<i>For >9, Deduct</i>	-16.11	
			<i>For >9, Deduct</i>	-33.30	



Earthwork	31	
Special Foundations and Load-bearing Elements	31 60	13
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY.....	2,382.42	
For >50' To 100' Deep, Add	195.68	
For >100' To 150' Deep, Add	595.61	
For >150' To 200' Deep, Add	750.87	
For >3 To 9, Deduct	-27.11	
For >9, Deduct	-56.02	
31 64 13 00-0019 EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY.....	3,306.63	
For >50' To 100' Deep, Add	272.10	
For >100' To 150' Deep, Add	826.66	
For >150' To 200' Deep, Add	1,042.79	
For >3 To 9, Deduct	-38.10	
For >9, Deduct	-78.74	
31 64 13 00-0020 EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY.....	4,492.15	
For >50' To 100' Deep, Add	363.33	
For >100' To 150' Deep, Add	1,123.04	
For >150' To 200' Deep, Add	1,408.74	
For >3 To 9, Deduct	-45.82	
For >9, Deduct	-94.70	
31 64 13 00-0021 EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY.....	5,282.25	
For >50' To 100' Deep, Add	427.05	
For >100' To 150' Deep, Add	1,320.56	
For >150' To 200' Deep, Add	1,656.29	
For >3 To 9, Deduct	-53.71	
For >9, Deduct	-111.00	
31 64 13 00-0022 EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY.....	8,959.70	
For >50' To 100' Deep, Add	722.96	
For >100' To 150' Deep, Add	2,239.93	
For >150' To 200' Deep, Add	2,807.64	
For >3 To 9, Deduct	-89.80	
For >9, Deduct	-185.58	
31 64 13 00-0023 EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY.....	12,946.64	
For >50' To 100' Deep, Add	1,054.86	
For >100' To 150' Deep, Add	3,236.66	
For >150' To 200' Deep, Add	4,069.74	
For >3 To 9, Deduct	-139.31	
For >9, Deduct	-287.90	
31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025 Caisson In Wet Ground <small>(31 64 13 00-0024)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026 VLF 18" Diameter Caisson Wet Ground, Casing Pulled.....	64.34	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	6.02	
For >100' To 150' Deep, Add	16.09	
For >150' To 200' Deep, Add	21.20	
For Right Angle Drilling, Add	17.77	
For >3 To 9, Deduct	-1.42	
For >9, Deduct	-2.94	
31 64 13 00-0027 VLF 24" Diameter Caisson Wet Ground, Casing Pulled.....	107.53	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	10.08	
For >100' To 150' Deep, Add	26.88	
For >150' To 200' Deep, Add	35.46	
For Right Angle Drilling, Add	29.65	
For >3 To 9, Deduct	-2.40	
For >9, Deduct	-4.95	
31 64 13 00-0028 VLF 30" Diameter Caisson Wet Ground, Casing Pulled.....	141.63	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	13.99	
For >100' To 150' Deep, Add	35.41	
For >150' To 200' Deep, Add	47.58	
For Right Angle Drilling, Add	36.83	
For >3 To 9, Deduct	-3.82	
For >9, Deduct	-7.90	
31 64 13 00-0029 VLF 36" Diameter Caisson Wet Ground, Casing Pulled.....	194.17	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	19.45	
For >100' To 150' Deep, Add	48.54	
For >150' To 200' Deep, Add	65.58	
For Right Angle Drilling, Add	49.64	
For >3 To 9, Deduct	-5.49	
For >9, Deduct	-11.36	
31 64 13 00-0030 VLF 42" Diameter Caisson Wet Ground, Casing Pulled.....	245.43	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	25.38	
For >100' To 150' Deep, Add	61.36	
For >150' To 200' Deep, Add	83.88	
For Right Angle Drilling, Add	60.27	
For >3 To 9, Deduct	-7.69	
For >9, Deduct	-15.89	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64	13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled.....	293.60	
			Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	30.85	
			For >100' To 150' Deep, Add	73.40	
			For >150' To 200' Deep, Add	100.95	
			For Right Angle Drilling, Add	70.58	
			For >3 To 9, Deduct	-9.65	
			For >9, Deduct	-19.95	
31 64	13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled.....	378.96	
			Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	39.84	
			For >100' To 150' Deep, Add	94.74	
			For >150' To 200' Deep, Add	130.33	
			For Right Angle Drilling, Add	91.03	
			For >3 To 9, Deduct	-12.48	
			For >9, Deduct	-25.80	
31 64	13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled.....	463.94	
			Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	48.86	
			For >100' To 150' Deep, Add	115.99	
			For >150' To 200' Deep, Add	159.67	
			For Right Angle Drilling, Add	111.17	
			For >3 To 9, Deduct	-15.36	
			For >9, Deduct	-31.75	
31 64	13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled.....	528.56	
			Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	56.83	
			For >100' To 150' Deep, Add	132.14	
			For >150' To 200' Deep, Add	183.36	
			For Right Angle Drilling, Add	123.03	
			For >3 To 9, Deduct	-18.59	
			For >9, Deduct	-38.42	
31 64	13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled.....	600.28	
			Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	65.86	
			For >100' To 150' Deep, Add	150.07	
			For >150' To 200' Deep, Add	209.88	
			For Right Angle Drilling, Add	135.60	
			For >3 To 9, Deduct	-22.35	
			For >9, Deduct	-46.19	
31 64	13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled.....	682.26	
			Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	75.74	
			For >100' To 150' Deep, Add	170.57	
			For >150' To 200' Deep, Add	239.65	
			For Right Angle Drilling, Add	151.35	
			For >3 To 9, Deduct	-26.23	
			For >9, Deduct	-54.21	
31 64	13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled.....	768.36	
			Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	86.24	
			For >100' To 150' Deep, Add	192.09	
			For >150' To 200' Deep, Add	271.07	
			For Right Angle Drilling, Add	167.52	
			For >3 To 9, Deduct	-30.42	
			For >9, Deduct	-62.87	
31 64	13 00-0038		For Bell Excavation And Concrete, Add <small>(31 64 13 00-0024)</small>	518.41	
31 64	13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	518.41	
			For >50' To 100' Deep, Add	41.12	
			For >100' To 150' Deep, Add	129.60	
			For >150' To 200' Deep, Add	161.57	
			For >3 To 9, Deduct	-4.53	
			For >9, Deduct	-9.37	
31 64	13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,805.77	
			For >50' To 100' Deep, Add	143.59	
			For >100' To 150' Deep, Add	451.44	
			For >150' To 200' Deep, Add	563.22	
			For >3 To 9, Deduct	-16.11	
			For >9, Deduct	-33.30	
31 64	13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,492.80	
			For >50' To 100' Deep, Add	185.51	
			For >100' To 150' Deep, Add	623.20	
			For >150' To 200' Deep, Add	761.60	
			For >3 To 9, Deduct	-10.32	
			For >9, Deduct	-21.33	
31 64	13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,964.66	
			For >50' To 100' Deep, Add	318.17	
			For >100' To 150' Deep, Add	991.17	
			For >150' To 200' Deep, Add	1,240.20	
			For >3 To 9, Deduct	-38.10	
			For >9, Deduct	-78.74	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0043	EA			Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	5,145.09	
				<i>For >50' To 100' Deep, Add</i>	409.03	
				<i>For >100' To 150' Deep, Add</i>	1,286.27	
				<i>For >150' To 200' Deep, Add</i>	1,604.62	
				<i>For >3 To 9, Deduct</i>	-45.82	
				<i>For >9, Deduct</i>	-94.70	
31 64 13 00-0044	EA			Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	6,050.42	
				<i>For >50' To 100' Deep, Add</i>	480.82	
				<i>For >100' To 150' Deep, Add</i>	1,512.61	
				<i>For >150' To 200' Deep, Add</i>	1,886.74	
				<i>For >3 To 9, Deduct</i>	-53.71	
				<i>For >9, Deduct</i>	-111.00	
31 64 13 00-0045	EA			Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	10,265.58	
				<i>For >50' To 100' Deep, Add</i>	814.37	
				<i>For >100' To 150' Deep, Add</i>	2,566.40	
				<i>For >150' To 200' Deep, Add</i>	3,199.40	
				<i>For >3 To 9, Deduct</i>	-89.80	
				<i>For >9, Deduct</i>	-185.58	
31 64 13 00-0046	EA			Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	14,812.16	
				<i>For >50' To 100' Deep, Add</i>	1,185.45	
				<i>For >100' To 150' Deep, Add</i>	3,703.04	
				<i>For >150' To 200' Deep, Add</i>	4,629.39	
				<i>For >3 To 9, Deduct</i>	-139.31	
				<i>For >9, Deduct</i>	-287.90	
31 64 13 00-0047				Caisson In Soft Rock And Medium Hard Shale <small>(31 64 13)</small>		
				Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048				Caisson In Soft Rock <small>(31 64 13 00-0047)</small>		
				Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF			18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	250.76	
				Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	83.02	
				<i>For >3 To 9, Deduct</i>	-1.42	
				<i>For >9, Deduct</i>	-2.94	
31 64 13 00-0050	VLF			24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	418.28	
				Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	138.41	
				<i>For >3 To 9, Deduct</i>	-2.40	
				<i>For >9, Deduct</i>	-4.95	
31 64 13 00-0051	VLF			30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	630.36	
				Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	207.89	
				<i>For >3 To 9, Deduct</i>	-3.82	
				<i>For >9, Deduct</i>	-7.90	
31 64 13 00-0052	VLF			36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	805.15	
				Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	263.49	
				<i>For >3 To 9, Deduct</i>	-5.49	
				<i>For >9, Deduct</i>	-11.36	
31 64 13 00-0053	VLF			42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,037.70	
				Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
				<i>For >50' To 100' Deep, Add</i>	80.84	
				<i>For >100' To 150' Deep, Add</i>	259.43	
				<i>For >150' To 200' Deep, Add</i>	321.56	
				<i>For Right Angle Drilling, Add</i>	337.56	
				<i>For >3 To 9, Deduct</i>	-7.69	
				<i>For >9, Deduct</i>	-15.89	
31 64 13 00-0054	VLF			48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,250.92	
				Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	405.64	
				<i>For >3 To 9, Deduct</i>	-9.65	
				<i>For >9, Deduct</i>	-19.95	
31 64 13 00-0055	VLF			54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,529.51	
				Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
				<i>For >50' To 100' Deep, Add</i>	120.38	
				<i>For >100' To 150' Deep, Add</i>	382.38	
				<i>For >150' To 200' Deep, Add</i>	475.50	
				<i>For Right Angle Drilling, Add</i>	493.72	
				<i>For >3 To 9, Deduct</i>	-12.48	
				<i>For >9, Deduct</i>	-25.80	
31 64 13 00-0056	VLF			60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,807.95	
				Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
				<i>For Right Angle Drilling, Add</i>	581.57	
				<i>For >3 To 9, Deduct</i>	-15.36	
				<i>For >9, Deduct</i>	-31.75	
31 64 13 00-0057	VLF			66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,985.03	
				Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
				<i>For >50' To 100' Deep, Add</i>	158.78	
				<i>For >100' To 150' Deep, Add</i>	496.26	
				<i>For >150' To 200' Deep, Add</i>	620.30	
				<i>For Right Angle Drilling, Add</i>	632.79	
				<i>For >3 To 9, Deduct</i>	-18.59	
				<i>For >9, Deduct</i>	-38.42	

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 64	Caissons



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 64 13 00-0058	VLF 72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,168.34	
	Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
	For Right Angle Drilling, Add	684.42	
	For >3 To 9, Deduct	-22.35	
	For >9, Deduct	-46.19	
31 64 13 00-0059	VLF 78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,220.09	
	Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
	For >50' To 100' Deep, Add	183.39	
	For >100' To 150' Deep, Add	555.02	
	For >150' To 200' Deep, Add	701.00	
	For Right Angle Drilling, Add	689.59	
	For >3 To 9, Deduct	-26.23	
	For >9, Deduct	-54.21	
31 64 13 00-0060	VLF 84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,651.45	
	Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
	For Right Angle Drilling, Add	826.60	
	For >3 To 9, Deduct	-30.42	
	For >9, Deduct	-62.87	

31 64 13 00-0061 For Bell Excavation And Concrete, Add (31 64 13 00-0047)

31 64 13 00-0062	EA Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	892.38	
	For >3 To 9, Deduct	-4.53	
	For >9, Deduct	-9.37	
31 64 13 00-0063	EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	3,140.10	
	For >3 To 9, Deduct	-16.11	
	For >9, Deduct	-33.30	
31 64 13 00-0064	EA Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	4,702.73	
	For >3 To 9, Deduct	-27.11	
	For >9, Deduct	-56.02	
31 64 13 00-0065	EA Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	6,696.06	
	For >3 To 9, Deduct	-38.10	
	For >9, Deduct	-78.74	
31 64 13 00-0066	EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	8,854.85	
	For >3 To 9, Deduct	-45.82	
	For >9, Deduct	-94.70	
31 64 13 00-0067	EA Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	10,792.01	
	For >3 To 9, Deduct	-53.71	
	For >9, Deduct	-111.00	
31 64 13 00-0068	EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	16,311.11	
	For >3 To 9, Deduct	-89.80	
	For >9, Deduct	-185.58	
31 64 13 00-0069	EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	24,528.21	
	For >3 To 9, Deduct	-139.31	
	For >9, Deduct	-287.90	

31 64 13 00-0070 Caisson Setup And Removal (31 64 13)

	Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	4,162.05	
	For >3 To 9, Deduct	-15.37	
	For >9, Deduct	-31.77	
31 64 13 00-0072	EA Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	5,822.70	
	For >3 To 9, Deduct	-41.00	
	For >9, Deduct	-84.72	
31 64 13 00-0073	EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,978.54	
31 64 13 00-0074	EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,638.05	
31 64 13 00-0075	EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	164.88	

31 66 Special Foundation (31 60)

31 66 15 Helical Foundation Piles (31 66)

31 66 15 00-0001 Helical Pier Restoration (Atlas) (31 66 15)

31 66 15 00-0002	EA Structural Steel Piers (Atlas Pier System Or Equal).....	5,567.76	
	Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling		
	For >3 To 9, Deduct	-417.58	
	For >9, Deduct	-863.00	
31 66 15 00-0003	EA Pressure Injecting Grout For Slab Repairs, Per Location	582.18	
	Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.		
	For >3 To 9, Deduct	-43.66	
	For >9, Deduct	-90.24	
31 66 15 00-0004	CY Pressure Injected Non-Shrink Grout.....	582.18	
	For >3 To 9, Deduct	-43.66	
	For >9, Deduct	-90.24	

31 68 Foundation Anchors (31 60)



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13		Rock Foundation Anchors <small>(31 68)</small>		
31 68 13 00-0001		Materials And Placement <small>(31 68 13)</small>		
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 <small>(31 68 13 00-0001)</small>		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003		3/4" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	220.71	
		For >3 To 9, Deduct	-10.61	
		For >9, Deduct	-21.92	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	317.30	
		For >3 To 9, Deduct	-15.87	
		For >9, Deduct	-32.80	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	387.45	
		For >3 To 9, Deduct	-21.13	
		For >9, Deduct	-43.67	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	510.47	
		For >3 To 9, Deduct	-26.39	
		For >9, Deduct	-54.54	
31 68 13 00-0008		1" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	279.34	
		For >3 To 9, Deduct	-15.00	
		For >9, Deduct	-31.01	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	430.04	
		For >3 To 9, Deduct	-24.32	
		For >9, Deduct	-50.27	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	554.31	
		For >3 To 9, Deduct	-33.65	
		For >9, Deduct	-69.53	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	731.48	
		For >3 To 9, Deduct	-42.97	
		For >9, Deduct	-88.80	
31 68 13 00-0013		1-3/8" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	460.14	
		For >3 To 9, Deduct	-28.56	
		For >9, Deduct	-59.03	
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	714.52	
		For >3 To 9, Deduct	-45.66	
		For >9, Deduct	-94.37	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	942.50	
		For >3 To 9, Deduct	-62.76	
		For >9, Deduct	-129.70	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,223.30	
		For >3 To 9, Deduct	-79.85	
		For >9, Deduct	-165.03	
31 68 13 00-0018		2" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	1,010.01	
		For >3 To 9, Deduct	-69.80	
		For >9, Deduct	-144.26	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	1,501.19	
		For >3 To 9, Deduct	-104.66	
		For >9, Deduct	-216.30	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,965.87	
		For >3 To 9, Deduct	-139.51	
		For >9, Deduct	-288.32	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	2,483.47	
		For >3 To 9, Deduct	-174.37	
		For >9, Deduct	-360.36	
31 68 13 00-0023		Super High-Tensile Anchors, ASTM A-108 <small>(31 68 13 00-0001)</small>		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024		3/4" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	161.38	
		For >3 To 9, Deduct	-6.16	
		For >9, Deduct	-12.73	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	215.30	
		For >3 To 9, Deduct	-8.22	
		For >9, Deduct	-16.99	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	242.69	
		For >3 To 9, Deduct	-10.27	
		For >9, Deduct	-21.23	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	320.98	
			<i>For >3 To 9, Deduct</i>	-12.18	
			<i>For >9, Deduct</i>	-25.17	
31 68 13 00-0029			1" Diameter <small>(31 68 13 00-0029)</small>		
	31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	191.82	
			<i>For >3 To 9, Deduct</i>	-8.44	
			<i>For >9, Deduct</i>	-17.44	
	31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	266.58	
			<i>For >3 To 9, Deduct</i>	-12.07	
			<i>For >9, Deduct</i>	-24.93	
	31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	312.46	
			<i>For >3 To 9, Deduct</i>	-15.51	
			<i>For >9, Deduct</i>	-32.05	
	31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	411.21	
			<i>For >3 To 9, Deduct</i>	-18.95	
			<i>For >9, Deduct</i>	-39.16	
31 68 13 00-0034			1-1/4" Diameter <small>(31 68 13 00-0034)</small>		
	31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	281.20	
			<i>For >3 To 9, Deduct</i>	-15.14	
			<i>For >9, Deduct</i>	-31.30	
	31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	394.70	
			<i>For >3 To 9, Deduct</i>	-21.67	
			<i>For >9, Deduct</i>	-44.79	
	31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	481.22	
			<i>For >3 To 9, Deduct</i>	-28.16	
			<i>For >9, Deduct</i>	-58.20	
	31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	616.98	
			<i>For >3 To 9, Deduct</i>	-34.38	
			<i>For >9, Deduct</i>	-71.05	
31 68 13 00-0039			2" Diameter <small>(31 68 13 00-0039)</small>		
	31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	736.18	
			<i>For >3 To 9, Deduct</i>	-49.27	
			<i>For >9, Deduct</i>	-101.82	
	31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	1,046.38	
			<i>For >3 To 9, Deduct</i>	-70.55	
			<i>For >9, Deduct</i>	-145.80	
	31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,277.13	
			<i>For >3 To 9, Deduct</i>	-87.86	
			<i>For >9, Deduct</i>	-181.57	
	31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,574.71	
			<i>For >3 To 9, Deduct</i>	-106.21	
			<i>For >9, Deduct</i>	-219.50	
31 68 13 00-0044			Solid Rebar Anchors, ASTM A615 <small>(31 68 13 00-0044)</small>		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045			3/4" Diameter <small>(31 68 13 00-0045)</small>		
	31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor.....	151.61	
			<i>For >3 To 9, Deduct</i>	-5.42	
			<i>For >9, Deduct</i>	-11.21	
	31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor.....	194.64	
			<i>For >3 To 9, Deduct</i>	-6.67	
			<i>For >9, Deduct</i>	-13.78	
	31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor.....	211.21	
			<i>For >3 To 9, Deduct</i>	-7.91	
			<i>For >9, Deduct</i>	-16.35	
	31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor.....	280.67	
			<i>For >3 To 9, Deduct</i>	-9.16	
			<i>For >9, Deduct</i>	-18.93	
31 68 13 00-0050			1" Diameter <small>(31 68 13 00-0050)</small>		
	31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor.....	170.42	
			<i>For >3 To 9, Deduct</i>	-6.84	
			<i>For >9, Deduct</i>	-14.13	
	31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor.....	225.74	
			<i>For >3 To 9, Deduct</i>	-9.00	
			<i>For >9, Deduct</i>	-18.60	
	31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor.....	254.67	
			<i>For >3 To 9, Deduct</i>	-11.17	
			<i>For >9, Deduct</i>	-23.09	
	31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor.....	336.39	
			<i>For >3 To 9, Deduct</i>	-13.34	
			<i>For >9, Deduct</i>	-27.56	



Earthwork	31	15
Special Foundations and Load-bearing Elements	31 60	
Foundation Anchors	31 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0055 1-1/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor	245.65	
For >3 To 9, Deduct	-12.48	
For >9, Deduct	-25.79	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor	317.23	
For >3 To 9, Deduct	-15.86	
For >9, Deduct	-32.79	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor	362.48	
For >3 To 9, Deduct	-19.26	
For >9, Deduct	-39.80	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor	460.56	
For >3 To 9, Deduct	-22.65	
For >9, Deduct	-46.81	
31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061 Rebar #6 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	85.58	
For >3 To 9, Deduct	-0.47	
For >9, Deduct	-0.98	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	118.32	
For >3 To 9, Deduct	-0.95	
For >9, Deduct	-1.95	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	124.62	
For >3 To 9, Deduct	-1.42	
For >9, Deduct	-2.93	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	171.18	
For >3 To 9, Deduct	-0.95	
For >9, Deduct	-1.95	
31 68 13 00-0066 Rebar #8 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	90.49	
For >3 To 9, Deduct	-0.84	
For >9, Deduct	-1.74	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	128.13	
For >3 To 9, Deduct	-1.68	
For >9, Deduct	-3.48	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	139.33	
For >3 To 9, Deduct	-2.52	
For >9, Deduct	-5.21	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	203.40	
For >3 To 9, Deduct	-3.36	
For >9, Deduct	-6.95	
31 68 13 00-0071 Rebar #10 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0072 EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	97.49	
For >3 To 9, Deduct	-1.37	
For >9, Deduct	-2.82	
31 68 13 00-0073 EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	142.14	
For >3 To 9, Deduct	-2.73	
For >9, Deduct	-5.65	
31 68 13 00-0074 EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	160.35	
For >3 To 9, Deduct	-4.10	
For >9, Deduct	-8.47	
31 68 13 00-0075 EA #10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	231.42	
For >3 To 9, Deduct	-5.46	
For >9, Deduct	-11.29	
31 68 13 00-0076 Rebar #14 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0077 EA #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	114.31	
For >3 To 9, Deduct	-2.63	
For >9, Deduct	-5.43	
31 68 13 00-0078 EA #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	175.76	
For >3 To 9, Deduct	-5.25	
For >9, Deduct	-10.86	
31 68 13 00-0079 EA #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	210.79	
For >3 To 9, Deduct	-7.88	
For >9, Deduct	-16.29	
31 68 13 00-0080 EA #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	298.67	
For >3 To 9, Deduct	-10.51	
For >9, Deduct	-21.72	
31 68 13 00-0081 Plastic Rebar Collars, Sizes #6-#14 <small>(31 68 13 00-0060)</small>		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14	2.82	
			<i>For >3 To 9, Deduct</i>	-0.21	
			<i>For >9, Deduct</i>	-0.44	
	31 68 13 00-0083		12" Long Resin Cartridges <small>(31 68 13 00-0001)</small>		
	31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long	1.95	
			<i>For >3 To 9, Deduct</i>	-0.15	
			<i>For >9, Deduct</i>	-0.30	
	31 68 13 00-0085	EA	1" Resin Cartridge 12" Long	2.68	
			<i>For >3 To 9, Deduct</i>	-0.20	
			<i>For >9, Deduct</i>	-0.42	
	31 68 13 00-0086	EA	1-1/16" Resin Cartridge 12" Long	2.87	
			<i>For >3 To 9, Deduct</i>	-0.22	
			<i>For >9, Deduct</i>	-0.44	
	31 68 13 00-0087	EA	1-1/4" Resin Cartridge 12" Long	3.10	
			<i>For >3 To 9, Deduct</i>	-0.23	
			<i>For >9, Deduct</i>	-0.48	
	31 68 13 00-0088	EA	1-3/8" Resin Cartridge 12" Long	3.56	
			<i>For >3 To 9, Deduct</i>	-0.27	
			<i>For >9, Deduct</i>	-0.55	
	31 68 13 00-0089	EA	1-9/16" Resin Cartridge 12" Long	4.45	
			<i>For >3 To 9, Deduct</i>	-0.33	
			<i>For >9, Deduct</i>	-0.69	
	31 68 13 00-0090	EA	1-3/4" Resin Cartridge 12" Long	6.12	
			<i>For >3 To 9, Deduct</i>	-0.46	
			<i>For >9, Deduct</i>	-0.95	
	31 68 13 00-0091		Head Assembly <small>(31 68 13 00-0001)</small>		
	31 68 13 00-0092		3/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
	31 68 13 00-0093	EA	3/4" Rod Head Assembly 1-5/8" Short Cone and Shell.....	30.65	
			<i>For >3 To 9, Deduct</i>	-2.30	
			<i>For >9, Deduct</i>	-4.75	
	31 68 13 00-0094	EA	3/4" Rod Head Assembly 1-3/4" Short Cone and Shell.....	25.81	
			<i>For >3 To 9, Deduct</i>	-1.94	
			<i>For >9, Deduct</i>	-4.00	
	31 68 13 00-0095	EA	3/4" Rod Head Assembly 1-7/8" Short Cone and Shell.....	27.07	
			<i>For >3 To 9, Deduct</i>	-2.03	
			<i>For >9, Deduct</i>	-4.20	
	31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	48.61	
			<i>For >3 To 9, Deduct</i>	-3.65	
			<i>For >9, Deduct</i>	-7.53	
	31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell.....	48.61	
			<i>For >3 To 9, Deduct</i>	-3.65	
			<i>For >9, Deduct</i>	-7.53	
	31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	46.06	
			<i>For >3 To 9, Deduct</i>	-3.45	
			<i>For >9, Deduct</i>	-7.14	
	31 68 13 00-0099		1" Rod Diameter <small>(31 68 13 00-0091)</small>		
	31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell.....	33.03	
			<i>For >3 To 9, Deduct</i>	-2.48	
			<i>For >9, Deduct</i>	-5.12	
	31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell.....	28.27	
			<i>For >3 To 9, Deduct</i>	-2.12	
			<i>For >9, Deduct</i>	-4.38	
	31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell.....	29.53	
			<i>For >3 To 9, Deduct</i>	-2.21	
			<i>For >9, Deduct</i>	-4.58	
	31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	51.14	
			<i>For >3 To 9, Deduct</i>	-3.84	
			<i>For >9, Deduct</i>	-7.93	
	31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell.....	51.14	
			<i>For >3 To 9, Deduct</i>	-3.84	
			<i>For >9, Deduct</i>	-7.93	
	31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	48.76	
			<i>For >3 To 9, Deduct</i>	-3.66	
			<i>For >9, Deduct</i>	-7.56	
	31 68 13 00-0106		1-1/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
	31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell.....	73.69	
			<i>For >3 To 9, Deduct</i>	-5.53	
			<i>For >9, Deduct</i>	-11.42	
	31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell.....	86.09	
			<i>For >3 To 9, Deduct</i>	-6.46	
			<i>For >9, Deduct</i>	-13.34	
	31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell.....	87.32	
			<i>For >3 To 9, Deduct</i>	-6.55	
			<i>For >9, Deduct</i>	-13.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell.....	77.44	
<i>For >3 To 9, Deduct</i>	-5.81	
<i>For >9, Deduct</i>	-12.00	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell.....	90.29	
<i>For >3 To 9, Deduct</i>	-6.77	
<i>For >9, Deduct</i>	-13.99	
31 68 13 00-0112 1-7/8" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	290.04	
<i>For >3 To 9, Deduct</i>	-21.75	
<i>For >9, Deduct</i>	-44.96	
31 68 13 00-0114 EA 1 7/8" Rod Head Assembly 3" Long Cone and Shell.....	199.96	
<i>For >3 To 9, Deduct</i>	-15.00	
<i>For >9, Deduct</i>	-30.99	
31 68 13 00-0115 2" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116 EA 2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	290.04	
<i>For >3 To 9, Deduct</i>	-21.75	
<i>For >9, Deduct</i>	-44.96	
31 68 13 00-0117 EA 2" Rod Head Assembly 3" Long Cone and Shell.....	199.96	
<i>For >3 To 9, Deduct</i>	-15.00	
<i>For >9, Deduct</i>	-30.99	
31 68 13 00-0118 Steel Plates With Standard Hole And Washers <small>(31 68 13 00-0001)</small>		
31 68 13 00-0119 Steel Plates <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120 EA 1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer.....	3.71	
<i>For >3 To 9, Deduct</i>	-0.28	
<i>For >9, Deduct</i>	-0.58	
31 68 13 00-0121 EA 1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	6.85	
<i>For >3 To 9, Deduct</i>	-0.51	
<i>For >9, Deduct</i>	-1.06	
31 68 13 00-0122 EA 3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	9.54	
<i>For >3 To 9, Deduct</i>	-0.72	
<i>For >9, Deduct</i>	-1.48	
31 68 13 00-0123 EA 3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	16.72	
<i>For >3 To 9, Deduct</i>	-1.25	
<i>For >9, Deduct</i>	-2.59	
31 68 13 00-0124 EA 1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer.....	6.49	
<i>For >3 To 9, Deduct</i>	-0.49	
<i>For >9, Deduct</i>	-1.01	
31 68 13 00-0125 EA 1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	17.05	
<i>For >3 To 9, Deduct</i>	-1.28	
<i>For >9, Deduct</i>	-2.64	
31 68 13 00-0126 EA 3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer.....	28.30	
<i>For >3 To 9, Deduct</i>	-2.12	
<i>For >9, Deduct</i>	-4.39	
31 68 13 00-0127 EA 3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	40.09	
<i>For >3 To 9, Deduct</i>	-3.01	
<i>For >9, Deduct</i>	-6.21	
31 68 13 00-0128 EA 1" x 4" x 7" Steel Plate For Rock Bolt With Washer.....	24.07	
<i>For >3 To 9, Deduct</i>	-1.81	
<i>For >9, Deduct</i>	-3.73	
31 68 13 00-0129 EA 1" x 9" x 9" Steel Plate For Rock Bolt With Washer.....	68.08	
<i>For >3 To 9, Deduct</i>	-5.11	
<i>For >9, Deduct</i>	-10.55	
31 68 13 00-0130 EA 1" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	100.33	
<i>For >3 To 9, Deduct</i>	-7.52	
<i>For >9, Deduct</i>	-15.55	
31 68 13 00-0131 EA 1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer.....	44.04	
<i>For >3 To 9, Deduct</i>	-3.30	
<i>For >9, Deduct</i>	-6.83	
31 68 13 00-0132 EA 1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer.....	119.12	
<i>For >3 To 9, Deduct</i>	-8.93	
<i>For >9, Deduct</i>	-18.46	
31 68 13 00-0133 EA 1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	69.57	
<i>For >3 To 9, Deduct</i>	-4.47	
<i>For >9, Deduct</i>	-9.23	
31 68 13 00-0134 EA 1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	143.28	
<i>For >3 To 9, Deduct</i>	-10.75	
<i>For >9, Deduct</i>	-22.21	
31 68 13 00-0135 EA 1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	65.75	
<i>For >3 To 9, Deduct</i>	-4.93	
<i>For >9, Deduct</i>	-10.19	
31 68 13 00-0136 EA 1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	158.90	
<i>For >3 To 9, Deduct</i>	-11.92	
<i>For >9, Deduct</i>	-24.63	
31 68 13 00-0137 Hardened Washers <small>(31 68 13 00-0118)</small>		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt	1.02	
			<i>For >3 To 9, Deduct</i>	-0.08	
			<i>For >9, Deduct</i>	-0.16	
	31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt	1.40	
			<i>For >3 To 9, Deduct</i>	-0.11	
			<i>For >9, Deduct</i>	-0.22	
	31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt	3.92	
			<i>For >3 To 9, Deduct</i>	-0.29	
			<i>For >9, Deduct</i>	-0.61	
	31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt	9.77	
			<i>For >3 To 9, Deduct</i>	-0.73	
			<i>For >9, Deduct</i>	-1.51	
	31 68 13 00-0142		Beveled Washers <small>(31 68 13 00-0118)</small>		
	31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt	2.56	
			<i>For >3 To 9, Deduct</i>	-0.19	
			<i>For >9, Deduct</i>	-0.40	
	31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt.....	2.52	
			<i>For >3 To 9, Deduct</i>	-0.19	
			<i>For >9, Deduct</i>	-0.39	
	31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt.....	3.82	
			<i>For >3 To 9, Deduct</i>	-0.29	
			<i>For >9, Deduct</i>	-0.59	
	31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt	16.32	
			<i>For >3 To 9, Deduct</i>	-1.22	
			<i>For >9, Deduct</i>	-2.53	
	31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt	11.28	
			<i>For >3 To 9, Deduct</i>	-0.85	
			<i>For >9, Deduct</i>	-1.75	
	31 68 13 00-0148		Hex Nuts <small>(31 68 13 00-0118)</small>		
	31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt	2.00	
			<i>For >3 To 9, Deduct</i>	-0.15	
			<i>For >9, Deduct</i>	-0.31	
	31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt	3.26	
			<i>For >3 To 9, Deduct</i>	-0.24	
			<i>For >9, Deduct</i>	-0.51	
	31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt	13.34	
			<i>For >3 To 9, Deduct</i>	-1.00	
			<i>For >9, Deduct</i>	-2.07	
	31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt	8.41	
			<i>For >3 To 9, Deduct</i>	-0.63	
			<i>For >9, Deduct</i>	-1.30	
	31 68 13 00-0153	EA	Hex Nut For 2" Diameter Rock Bolt	53.62	
			<i>For >3 To 9, Deduct</i>	-4.02	
			<i>For >9, Deduct</i>	-8.31	
	31 68 13 00-0154		Drilling Operation For Rockbolts <small>(31 68 13)</small>		
	31 68 13 00-0155		Drill Holes For Rock Bolts <small>(31 68 13 00-0154)</small>		
	31 68 13 00-0156		3/4" Diameter Bolt, 1-3/4" Hole <small>(31 68 13 00-0155)</small>		
	31 68 13 00-0157	EA	Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	193.86	
	31 68 13 00-0158	EA	Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	366.18	
	31 68 13 00-0159	EA	Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	549.27	
	31 68 13 00-0160	EA	Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	659.12	
	31 68 13 00-0161		1" Diameter Bolt, 2" Hole <small>(31 68 13 00-0155)</small>		
	31 68 13 00-0162	EA	Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	253.51	
	31 68 13 00-0163	EA	Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	470.80	
	31 68 13 00-0164	EA	Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	659.12	
	31 68 13 00-0165	EA	Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	823.91	
	31 68 13 00-0166		1-1/4" Diameter Bolt, 2-1/4" Hole <small>(31 68 13 00-0155)</small>		
	31 68 13 00-0167	EA	Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt	274.63	
	31 68 13 00-0168	EA	Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt	549.27	
	31 68 13 00-0169	EA	Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	823.91	
	31 68 13 00-0170	EA	Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt	1,098.55	
	31 68 13 00-0171		2" Diameter Bolt, 3-1/2" Hole <small>(31 68 13 00-0155)</small>		
	31 68 13 00-0172	EA	Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt	329.56	
	31 68 13 00-0173	EA	Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	659.12	
	31 68 13 00-0174	EA	Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	1,098.55	
	31 68 13 00-0175	EA	Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,647.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0176 Tools <small>(31 68 13)</small>		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	731.99	
For >3 To 9, Deduct	-54.90	
For >9, Deduct	-113.46	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	1,078.73	
For >3 To 9, Deduct	-80.90	
For >9, Deduct	-167.20	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,809.69	
For >3 To 9, Deduct	-135.73	
For >9, Deduct	-280.50	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,709.33	
For >3 To 9, Deduct	-203.20	
For >9, Deduct	-419.95	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	4,049.95	
For >3 To 9, Deduct	-303.75	
For >9, Deduct	-627.74	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental	256.15	
For >3 To 9, Deduct	-19.21	
For >9, Deduct	-39.70	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	160.56	
For >3 To 9, Deduct	-12.04	
For >9, Deduct	-24.89	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	417.02	
For >3 To 9, Deduct	-31.28	
For >9, Deduct	-64.64	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	290.82	
For >3 To 9, Deduct	-21.81	
For >9, Deduct	-45.08	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	558.53	
For >3 To 9, Deduct	-41.89	
For >9, Deduct	-86.57	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	137.76	
For >3 To 9, Deduct	-10.33	
For >9, Deduct	-21.35	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	696.29	
For >3 To 9, Deduct	-52.22	
For >9, Deduct	-107.92	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier <small>(31 68 13 00-0176)</small>		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio	715.34	
For >3 To 9, Deduct	-53.65	
For >9, Deduct	-110.88	
31 68 13 00-0196 Pneumatic Drive Torque Wrench <small>(31 68 13 00-0176)</small>		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,530.64	
For >3 To 9, Deduct	-114.80	
For >9, Deduct	-237.25	
31 68 13 00-0198 Grouting <small>(31 68 13)</small>		
31 68 13 00-0199 Grouting With Pumps <small>(31 68 13 00-0198)</small>		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery	22.96	
For >3 To 9, Deduct	-0.96	
For >9, Deduct	-1.99	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	35.87	
For >3 To 9, Deduct	-0.96	
For >9, Deduct	-1.99	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	33.10	
For >3 To 9, Deduct	-0.96	
For >9, Deduct	-1.99	
31 68 13 00-0203 Grout Pumps, Monthly Rental <small>(31 68 13 00-0198)</small>		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	153.08	
For >3 To 9, Deduct	-11.48	
For >9, Deduct	-23.73	

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
31 68 13 00-0205	EA Air Powered Programmable Feed Grout Pump Monthly Rental..... <i>For >3 To 9, Deduct</i>	1,287.75 -96.58	
	<i>For >9, Deduct</i>	-199.60	
31 68 13 00-0206	EA Air Powered, Piston Drive Grout Pump Monthly Rental..... <i>For >3 To 9, Deduct</i>	2,248.29 -168.62	
	<i>For >9, Deduct</i>	-348.48	
31 68 13 00-0207	Rock Bolt Testing <small>(31 68 13)</small>		
31 68 13 00-0208	EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing..... <i>For >3 To 9, Deduct</i>	604.30 -45.32	
	<i>For >9, Deduct</i>	-93.67	

END OF SECTION 31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001	Remove Painted Or Epoxy Pavement Markings ^(32 01 11 53)	
	Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.	
32 01 11 53-0002	LF Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.24
	For Up To 250, Add	1.12
	For >250 To 1,000, Add	0.56
	For >5,000 To 10,000, Deduct	-0.34
	For >10,000 To 25,000, Deduct	-0.56
	For >25,000 To 50,000, Deduct	-0.78
	For >50,000, Deduct	-0.90
32 01 11 53-0003	LF Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.68
	For Up To 250, Add	1.34
	For >250 To 1,000, Add	0.67
	For >5,000 To 10,000, Deduct	-0.40
	For >10,000 To 25,000, Deduct	-0.67
	For >25,000 To 50,000, Deduct	-0.94
	For >50,000, Deduct	-1.07
32 01 11 53-0004	LF Removal Of 8" Wide Painted Or Epoxy Pavement Striping	3.22
	For Up To 250, Add	1.61
	For >250 To 1,000, Add	0.81
	For >5,000 To 10,000, Deduct	-0.48
	For >10,000 To 25,000, Deduct	-0.81
	For >25,000 To 50,000, Deduct	-1.13
	For >50,000, Deduct	-1.29
32 01 11 53-0005	LF Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.85
	For Up To 250, Add	1.93
	For >250 To 1,000, Add	0.96
	For >5,000 To 10,000, Deduct	-0.58
	For >10,000 To 25,000, Deduct	-0.96
	For >25,000 To 50,000, Deduct	-1.35
	For >50,000, Deduct	-1.54
32 01 11 53-0006	SF Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.85
	For Up To 250, Add	1.93
	For >250 To 1,000, Add	0.96
	For >5,000 To 10,000, Deduct	-0.58
	For >10,000 To 25,000, Deduct	-0.96
	For >25,000 To 50,000, Deduct	-1.35
	For >50,000, Deduct	-1.54
32 01 11 53-0007	Remove Thermoplastic Pavement Markings ^(32 01 11 53)	
32 01 11 53-0008	LF Remove Thermoplastic Pavement Stripe	1.52
32 01 11 53-0009	SF Remove Thermoplastic Pavement Marking	6.25

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 01 13 61 Slurry Seal (Latex Modified) ^(32 01 13)

32 01 13 61-0001	Asphalt Seal Coating, For Roads And Parking Lot ^(32 01 13 61)	
	Note: Includes sweeping and cleaning of area.	
32 01 13 61-0002	EA Asphalt Seal Coating Minimum Charge	881.23
	Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	3.32
32 01 13 61-0004	SY >500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	3.06
32 01 13 61-0005	SY >1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	2.86
32 01 13 61-0006	SY Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat	3.51
	Note: 1/8" thick.	
	For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
	For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
	For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
	For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0007	SY >500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	3.30
	Note: 1/8" thick.	
	For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
	For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
	For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
	For Each 0.5% Of Latex Addition, Add	0.30
32 01 13 61-0008	SY >1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	3.15
	Note: 1/8" thick.	
	For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
	For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
	For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
	For Each 0.5% Of Latex Addition, Add	0.30

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 13 Flexible Paving Surface Treatment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0009	SY		>5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	3.00 0.28 0.34 0.44 0.30	
32 01 13 61-0010	SY		>20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	3.00 0.28 0.34 0.44 0.30	
32 01 13 61-0011	SY		>50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	2.75 0.27 0.33 0.43 0.30	
32 01 13 61-0012	SY		Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat..... Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	4.75 0.33 0.39 0.49 0.45	
32 01 13 61-0013	SY		>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	4.43 0.32 0.38 0.48 0.45	
32 01 13 61-0014	SY		>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	4.19 0.31 0.37 0.47 0.45	
32 01 13 61-0015	SY		>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	3.96 0.29 0.35 0.45 0.45	
32 01 13 61-0016	SY		>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	3.76 0.28 0.34 0.44 0.45	
32 01 13 61-0017	SY		>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	3.56 0.27 0.33 0.43 0.45	
32 01 13 61-0018	SY		Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	5.97 0.34 0.40 0.50 0.73	
32 01 13 61-0019	SY		>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	5.64 0.33 0.39 0.49 0.73	
32 01 13 61-0020	SY		>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	5.38 0.31 0.37 0.47 0.73	
32 01 13 61-0021	SY		>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	5.13 0.30 0.36 0.46 0.73	
32 01 13 61-0022	SY		>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> <i>For Each 0.5% Of Latex Addition, Add</i>	4.91 0.29 0.35 0.45 0.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0023 SY >50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.71	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.73	
32 01 13 62 Asphalt Surface Treatment (32 01 13)		
32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)		
Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.		
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.72	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.19	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.73	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.34	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.98	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.68	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.46	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.34	
32 01 16 Flexible Paving Rehabilitation (32 01)		
32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)		
32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71)		
Note: Includes direct loading into truck.		
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt	4.52	
For Up To 2,500, Add	3.39	
For >2,500 To 5,000, Add	1.13	
For >10,000 To 25,000, Deduct	-0.79	
For >25,000, Deduct	-1.13	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt	5.70	
For Up To 2,500, Add	4.28	
For >2,500 To 5,000, Add	1.43	
For >10,000 To 25,000, Deduct	-1.00	
For >25,000, Deduct	-1.43	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt	7.60	
For Up To 2,500, Add	5.70	
For >2,500 To 5,000, Add	1.90	
For >10,000 To 25,000, Deduct	-1.33	
For >25,000, Deduct	-1.90	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt	30.07	
For >100 To 1,000, Deduct	-15.04	
For >1,000, Deduct	-22.55	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt	39.82	
For >100 To 1,000, Deduct	-19.91	
For >1,000, Deduct	-29.87	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt	53.04	
For >100 To 1,000, Deduct	-26.52	
For >1,000, Deduct	-39.78	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth	7.85	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	5.35	
For >12" To 18" Depth, Add	1.84	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.99	
For >12" To 18" Depth, Add	1.73	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.22	
For >12" To 18" Depth, Add	1.50	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.62	
For >12" To 18" Depth, Add	1.32	

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 16 Flexible Paving Rehabilitation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0006	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.26	
			<i>For >12" To 18" Depth, Add</i>	1.21	
32 01 16 73-0007	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.02	
			<i>For >12" To 18" Depth, Add</i>	1.14	
32 01 16 73-0008	SF		>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.85	
			<i>For >12" To 18" Depth, Add</i>	1.09	
32 01 16 73-0009			Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) <small>(32 01 16 73 73)</small>		
			<small>Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.</small>		
32 01 16 73-0010	SF		Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	5.28	
			<i>For >12" To 18" Depth, Add</i>	1.80	
32 01 16 73-0011	SF		>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.15	
			<i>For >12" To 18" Depth, Add</i>	1.47	
32 01 16 73-0012	SF		>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.55	
			<i>For >12" To 18" Depth, Add</i>	1.29	
32 01 16 73-0013	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.19	
			<i>For >12" To 18" Depth, Add</i>	1.18	
32 01 16 73-0014	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.95	
			<i>For >12" To 18" Depth, Add</i>	1.11	
32 01 16 73-0015	SF		>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.78	
			<i>For >12" To 18" Depth, Add</i>	1.05	
32 01 16 73-0016			Supplemental Aggregate <small>(32 01 16 73)</small>		
32 01 16 73-0017	TON		Supplemental Aggregate	81.93	
32 01 16 73-0018			Cold-In-Place Recycling (CALTRAN) <small>(32 01 16 73)</small>		
32 01 16 73-0019	TON		Sand Cover (CIPR).....	58.00	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000 To 2,500, Deduct</i>	-2.90	
			<i>For >2,500 To 5,000, Deduct</i>	-4.06	
			<i>For >5,000, Deduct</i>	-5.22	
32 01 16 73-0020	SY		Cold In Place Recycling (CIPR).....	6.50	
			<i>For >10,000 To 25,000, Deduct</i>	-0.65	
			<i>For >25,000, Deduct</i>	-0.98	
32 01 16 73-0021	TON		Cement (CIPR).....	135.00	
			<i>For >500 To 1,000, Deduct</i>	-3.38	
			<i>For >1,000 To 2,500, Deduct</i>	-6.75	
			<i>For >2,500 To 5,000, Deduct</i>	-9.45	
			<i>For >5,000, Deduct</i>	-12.15	
32 01 16 73-0022	TON		Emulsified Recycling Agent (CIPR)	610.00	
			<i>For >500 To 1,000, Deduct</i>	-15.25	
			<i>For >1,000 To 2,500, Deduct</i>	-30.50	
			<i>For >2,500 To 5,000, Deduct</i>	-42.70	
			<i>For >5,000, Deduct</i>	-54.90	
32 01 16 73-0023	TON		Asphaltic Emulsion (CIPR).....	610.00	
			<i>For >500 To 1,000, Deduct</i>	-15.25	
			<i>For >1,000 To 2,500, Deduct</i>	-30.50	
			<i>For >2,500 To 5,000, Deduct</i>	-42.70	
			<i>For >5,000, Deduct</i>	-54.90	
32 01 16 74			In Place Hot Reused Asphalt Paving <small>(32 01 16)</small>		
32 01 16 74-0001			Reclamation, Pulverize And Blending With Existing <small>(32 01 16 74)</small>		
			<small>Note: Includes direct loading into truck.</small>		
32 01 16 74-0002	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	16.20	
32 01 16 74-0003	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.10	
32 01 16 74-0004	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.05	
32 01 16 74-0005	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.84	
32 01 16 74-0006	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.42	
32 01 16 74-0007	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	17.67	
32 01 16 74-0008	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.83	
32 01 16 74-0009	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.17	
32 01 16 74-0010	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	19.44	
32 01 16 74-0011	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.72	
32 01 16 74-0012	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.86	
32 01 16 74-0013	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	21.21	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.61	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.30	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.94	
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,822.51	
32 01 16 74-0019 Rejuvenate, Respread Asphalt Pavement <small>(32 01 16 74)</small>		
Note: Includes direct loading into truck.		
32 01 16 74-0020 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	11.15	
32 01 16 74-0021 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	13.24	
32 01 16 74-0022 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	204.12	
32 01 17 Flexible Paving Repair <small>(32 01)</small>		
See CSI section 32 12 16 00-0000 for large area resurfacing.		
32 01 17 61 Sealing Cracks in Asphalt Paving <small>(32 01 17)</small>		
Note: Includes removing loose materials and cleaning.		
32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair <small>(32 01 17 61)</small>		
Note: Includes removing loose materials and cleaning.		
32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.88	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.54	
For 1" x 1/2" Fill, Add	1.03	
For Backer Rod, Add	1.11	
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.53	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.45	
For 1" x 1/2" Fill, Add	0.86	
For Backer Rod, Add	1.00	
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.23	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.37	
For 1" x 1/2" Fill, Add	0.70	
For Backer Rod, Add	0.89	
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.05	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.32	
For 1" x 1/2" Fill, Add	0.61	
For Backer Rod, Add	0.83	
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.95	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.29	
For 1" x 1/2" Fill, Add	0.55	
For Backer Rod, Add	0.78	
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.87	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.26	
For 1" x 1/2" Fill, Add	0.50	
For Backer Rod, Add	0.74	
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	3.28	
For 3/8" x 1/4" Fill, Add	0.78	
For 1/2" x 1/4" Fill, Add	1.43	
For 1/2" x 1/2" Fill, Add	3.42	
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.65	
For 3/8" x 1/4" Fill, Add	0.64	
For 1/2" x 1/4" Fill, Add	1.18	
For 1/2" x 1/2" Fill, Add	2.85	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.05	
For 3/8" x 1/4" Fill, Add	0.51	
For 1/2" x 1/4" Fill, Add	0.94	
For 1/2" x 1/2" Fill, Add	2.30	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.80	
For 3/8" x 1/4" Fill, Add	0.45	
For 1/2" x 1/4" Fill, Add	0.83	
For 1/2" x 1/2" Fill, Add	2.05	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.62	
For 3/8" x 1/4" Fill, Add	0.40	
For 1/2" x 1/4" Fill, Add	0.74	
For 1/2" x 1/2" Fill, Add	1.82	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.51	
For 3/8" x 1/4" Fill, Add	0.37	
For 1/2" x 1/4" Fill, Add	0.68	
For 1/2" x 1/2" Fill, Add	1.64	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.56	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.	4,056.46	
32 01 17 63 Flexible Pavement Repair (32 01 17)		
32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,718.19	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified..... Note: Use for each ton over 3 tons.	518.38	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,646.16	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix	494.37	
Note: Use for each ton over 3 tons.		
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,610.15	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified..... Note: Use for each ton over 3 tons.	482.36	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,574.13	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix	470.36	
Note: Use for each ton over 3 tons.		
32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,861.70	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix	604.81	
Note: Use for each ton over 3 tons.		
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,825.69	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified	592.80	
Note: Use for each ton over 3 tons.		
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,789.67	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix	580.80	
Note: Use for each ton over 3 tons.		
32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63) Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,435.56	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified	328.15	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	2,363.53	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix	304.14	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	2,327.52	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified	292.13	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons	2,291.50	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	280.13	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	22.47	

32 01 26 Rigid Paving Rehabilitation (32 01)**32 01 26 71 Grooving of Concrete Paving (32 01 26)****32 01 26 71-0001 Roadway Grooving (32 01 26 71)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	4,155.32	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.85	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse	4,629.17	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	5.01	
32 01 26 71-0006 Rumble Strips (32 01 26 71)		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,613.07	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.84	
32 01 26 71-0009 EA First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	5,140.85	
32 01 26 71-0010 LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	0.94	
32 01 26 73 Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001 Removal Of Concrete (32 01 26 73)		
Note: Includes direct loading into truck.		
32 01 26 73-0002 Production Milling Of Roads And Parking Areas (32 01 26 73-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0003 SY Production Milling Of Concrete Per Inch.....	7.20	
32 01 26 73-0004 Limited Production Milling (32 01 26 73-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0005 SY Limited Production Milling Of Concrete Per Inch	45.20	
32 01 29 Rigid Paving Repair (32 01)		
32 01 29 61 Partial Depth Patching of Rigid Paving (32 01 29)		
32 01 29 61-0001 Hot Applied Flexible Concrete Repair (32 01 29 61)		
Note: Excludes saw cutting (where required), flagmen.		
32 01 29 61-0002 EA Hot Applied Flexible Concrete Repair Minimum Charge.....	1,243.57	
Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphaltcharge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.		
32 01 29 61-0003 SF Up To 2" Depth, Hot Applied Flexible Concrete Repair	69.35	
For >25 SF Quantity, Deduct		
	-6.94	
32 01 29 61-0004 SF >2" To 4" Depth, Hot Applied Flexible Concrete Repair.....	130.31	
For >25 SF Quantity, Deduct		
	-13.03	
32 01 29 61-0005 SF >4" To 6" Depth, Hot Applied Flexible Concrete Repair.....	190.72	
For >25 SF Quantity, Deduct		
	-19.07	
32 01 29 61-0006 SF >6" To 8" Depth, Hot Applied Flexible Concrete Repair.....	251.11	
For >25 SF Quantity, Deduct		
	-25.11	
32 01 29 61-0007 SF >8" To 10" Depth, Hot Applied Flexible Concrete Repair.....	311.52	
For >25 SF Quantity, Deduct		
	-31.15	
32 01 29 61-0008 CF >10" Depth, Hot Applied Flexible Concrete Repair.....	371.35	
32 01 29 61-0009 Cold Applied Flexible Concrete Repair (32 01 29 61)		
32 01 29 61-0010 SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	6.79	
32 01 29 61-0011 SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	9.79	
32 01 29 61-0012 SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	12.89	
32 01 29 61-0013 SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	16.09	
32 01 29 61-0014 SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	22.98	
32 01 29 61-0015 SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	6.88	
32 01 29 61-0016 SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	9.87	
32 01 29 61-0017 SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	12.98	
32 01 29 61-0018 SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	16.18	
32 01 29 61-0019 SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	23.07	
32 01 29 61-0020 SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	6.84	
32 01 29 61-0021 SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	9.83	
32 01 29 61-0022 SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	12.93	
32 01 29 61-0023 SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	16.14	
32 01 29 61-0024 SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	23.02	
32 01 90 Operation and Maintenance of Planting (32 01)		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
32 01 90 13 Fertilizing (32 01 90)		
32 01 90 13-0001 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	15.52	
32 01 90 13-0002 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	11.39	
32 01 90 13-0003 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular).....	12.43	
32 01 90 13-0004 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	10.22	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 01 90 19 Mowing** (32 01 90)

32 01 90 19-0001	ACR	Vegetation Cutting By Bush Hog	214.66
		Note: Includes normal debris removal, cutting, and trimming.	
		<i>For <1 Acre, Add</i>	53.67
32 01 90 19-0002	MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	7.48
32 01 90 19-0003	MSF	Mowing Vegetation With Riding Mower, >45,000 SF	5.79
32 01 90 19-0004	MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF	25.59
		<i>For Work On Slopes >2:1, Add</i>	6.40
		<i>For Clearing Light Brush, Add</i>	3.84
32 01 90 19-0005	MSF	Clear Vegetation With Weed Trimmer, >1,000 SF	21.50
		<i>For Work On Slopes >2:1, Add</i>	5.38
		<i>For Clearing Light Brush, Add</i>	3.23
32 01 90 19-0006	MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	22.04

32 01 90 23 Pruning (32 01 90)

32 01 90 23-0001 Tree Pruning (32 01 90 23)
 Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)
 Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	32.19
32 01 90 23-0004	EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand	36.78
32 01 90 23-0005	EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	41.38
32 01 90 23-0006	EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand	45.99
32 01 90 23-0007	EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand	69.88
32 01 90 23-0008	EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	116.27
32 01 90 23-0009	EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand	122.29
32 01 90 23-0010	EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	221.43
32 01 90 23-0011	EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand	195.84
32 01 90 23-0012	EA	9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	354.21
32 01 90 23-0013	EA	12" Caliper, Tree Pruning (Crown Cleaning), By Hand	226.29
32 01 90 23-0014	EA	12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	409.62
32 01 90 23-0015	EA	18" Caliper, Tree Pruning (Crown Cleaning), By Hand	263.05
32 01 90 23-0016	EA	18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	476.05
32 01 90 23-0017	EA	24" Caliper, Tree Pruning (Crown Cleaning), By Hand	320.21
32 01 90 23-0018	EA	24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	575.79
32 01 90 23-0019	EA	30" Caliper, Tree Pruning (Crown Cleaning), By Hand	397.77
32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	725.67
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	544.81
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	983.52
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	864.32
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,581.66

32 01 90 23-0025 Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	39.45
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	45.06
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	50.67
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	56.37
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	85.61
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	142.38
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	149.81
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	271.25
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	239.93
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	433.89
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	277.18
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	501.76
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	322.24
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	583.15
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	392.23
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	705.38
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	487.22
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	888.94
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	667.38
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,204.81
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	1,058.78
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,937.53



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 01 90 23-0048

Tree Pruning; Crown Raising (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	43.50
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand.....	49.66
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	55.92
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand.....	62.07
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand.....	94.35
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	157.00
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand.....	165.07
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	298.94
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand.....	264.40
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	478.18
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand.....	305.51
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	553.03
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand.....	355.16
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	642.71
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand.....	432.32
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	777.34
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand.....	536.98
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	979.62
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand.....	735.53
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,327.71
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand.....	1,166.84
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	2,135.27

32 01 90 23-0071

Tree Pruning; Crown Reduction (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	46.72
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	53.34
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	60.05
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand.....	66.67
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand.....	101.34
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	168.62
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand.....	177.31
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	321.08
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand.....	283.99
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	513.61
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand.....	328.13
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	593.99
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand.....	381.47
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	690.31
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand.....	464.33
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	834.91
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand.....	576.80
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,052.24
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand.....	789.97
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,426.13
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand.....	1,253.28
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	2,293.37

32 01 90 23-0094

Tree Pruning; Crown Restoration (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several prunings over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	53.62
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	61.34
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	68.97
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	76.61
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	116.43
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	193.75
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	203.79
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	369.02
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	326.38
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	590.34
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	377.14
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	682.68
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	438.39
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	793.40
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	533.67
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	959.68
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	662.97

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,209.47	
	32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	908.05	
	32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,639.26	
	32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,440.52	
	32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,636.15	
32 01 90 23-0117			Palm Tree Pruning (32 01 90 23)		
	32 01 90 23-0118	EA	Trim Mexican Palm Tree.....	97.50	
	32 01 90 23-0119	EA	Trim Date Palm Tree.....	220.01	
	32 01 90 23-0120	LF	Skin Palm Tree.....	25.00	
	32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height.....	94.11	
	32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height.....	116.25	
	32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height.....	130.09	
32 01 90 23-0124			Shrub Pruning (32 01 90 23)		
	32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed.....	104.79	
	32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height.....	3.68	
	32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height.....	8.28	
	32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'.....	14.71	
	32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground.....	36.78	
	32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work.....	91.96	
32 01 90 23-0131			Root Pruning (32 01 90 23)		
			Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
	32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree.....	18.40	
	32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree.....	22.99	
	32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree.....	27.59	
	32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree.....	36.78	
	32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree.....	55.18	
	32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree.....	68.97	
	32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree.....	96.56	
	32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree.....	110.36	
	32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree.....	128.75	
	32 01 90 23-0141	EA	Root Pruning, One Side Of >18" To 24" Caliper Tree.....	160.93	
	32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree.....	197.72	
	32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree.....	229.91	
	32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree.....	252.90	
	32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree.....	275.89	
32 01 90 26			Watering (32 01 90)		
			Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001			Watering Lawns, Plants And Trees (32 01 90 26)		
			Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
	32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water.....	48.17	
	32 01 90 26-0003	CSF	Watering Groundcover.....	7.42	
	32 01 90 26-0004	CSF	Watering Annuals And Perennials.....	13.13	
	32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand.....	25.33	
	32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand.....	33.30	
	32 01 90 26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand.....	41.28	
	32 01 90 26-0008	EA	Watering Trees, >18" Diameter By Hand.....	50.82	
	32 01 90 26-0009	EA	Watering Shrub Or Bush By Hand.....	12.74	
32 01 90 36			Weed and Brush Control (32 01 90)		
32 01 90 36-0001			Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
	32 01 90 36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	8.60	
			For >45 To 90, Deduct.....	-0.47	
			For >90 To 225, Deduct.....	-1.33	
			For >225 To 870, Deduct.....	-2.19	
			For >870, Deduct.....	-2.66	
	32 01 90 36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF).....	9.26	
			For >45 To 90, Deduct.....	-0.54	
			For >90 To 225, Deduct.....	-1.46	
			For >225 To 870, Deduct.....	-2.39	
			For >870, Deduct.....	-2.93	
	32 01 90 36-0004	MSF	Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF).....	9.22	
			Note: Includes pre and post emergent.		
			For >45 To 90, Deduct.....	-0.53	
			For >90 To 225, Deduct.....	-1.45	
			For >225 To 870, Deduct.....	-2.38	
			For >870, Deduct.....	-2.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	9.63	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.57	
For >90 To 225, Deduct	-1.54	
For >225 To 870, Deduct	-2.50	
For >870, Deduct	-3.07	
32 01 90 39 Pesticides (32 01 90)		
32 01 90 39-0001 MSF Pesticide - Surface Eating	11.84	
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	11.88	
32 01 90 39-0003 MSF Pesticide - Fungicide Application.....	12.81	
32 01 90 43 Weed and Cultivate Beds (32 01 90)		
32 01 90 43-0001 MSF Weed Mulched Bed	45.00	
32 01 90 43-0002 MSF Weed Unmulched Bed.....	128.55	
32 01 90 43-0003 MSF Cultivate Bed	69.22	
32 01 90 46 Hedge Trimming (32 01 90)		
32 01 90 46-0001 LF Trim 0-5' High Hedge, 0-3' Wide.....	6.03	
32 01 90 46-0002 LF Trim 0-5' High Hedge, 4-6' Wide.....	9.04	
32 01 90 46-0003 LF Trim 5-10' High Hedge, 0-3' Wide.....	13.69	
32 01 90 46-0004 LF Trim 5-10' High Hedge, 4-6' Wide.....	13.95	
32 01 90 53 Plant Growth Regulator Application (32 01 90)		
32 01 90 53-0001 EA Plant Growth Regulator Application.....	6.59	
32 05 Common Work Results for Exterior Improvements (32)		
32 05 33 Common Work Results for Planting (32 05)		
32 05 33 00-0001 Decorative Landscape Boulders (32 05 33)		
Note: Includes delivery of materials and placement.		
32 05 33 00-0002 EA 1 -6" x 2' x 1' Oval Shape Boulders (approx 250 lbs each).....	84.72	
32 05 33 00-0003 EA 1 -6" x 2' x 1'-6" Oval Shape Boulders (approx 375 lbs each).....	127.08	
32 05 33 00-0004 EA 2' x 2' x 1'-6" Oval Shape Boulders (approx 500 lbs each).....	169.43	
32 05 33 00-0005 EA 2' x 2' x 2' Oval Shape Boulders (approx 667 lbs each).....	226.04	
32 05 33 00-0006 EA 2' x 3' x 1'-6" Oval Shape Boulders (approx 750 lbs each).....	254.43	
32 05 33 00-0007 EA 2' x 3' x 2' Oval Shape Boulders (approx 1000 lbs each).....	339.24	
32 05 33 00-0008 EA 2'-6" x 3' x 2' Oval Shape Boulders (approx 1250 lbs each).....	424.04	
32 05 33 00-0009 EA 3' x 3' x 2' Oval Shape Boulders (approx 1500 lbs each).....	508.86	
32 05 33 00-0010 EA 3' x 3'-6" x 2' Oval Shape Boulders (approx 1750 lbs each).....	593.66	
32 05 33 00-0011 EA 3' x 4' x 2' Oval Shape Boulders (approx 2000 lbs each).....	678.46	
32 05 33 00-0012 EA 3' x 3' x 3' Oval Shape Boulders (approx 2250 lbs each).....	763.27	
32 05 33 00-0013 EA 3' x 4' x 2'-6" Oval Shape Boulders (approx 2500 lbs each).....	848.07	
32 05 33 00-0014 EA 3' x 4' x 3' Oval Shape Boulders (approx 3000 lbs each).....	1,017.70	
32 05 33 00-0015 TON Landscape Boulders.....	678.46	
32 10 Bases, Ballasts, and Paving (32)		
32 11 Base Courses (32 10)		
32 11 16 Subbase Courses (32 11)		
32 11 16 16 Aggregate Subbase Courses (32 11 16)		
32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)		
Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)		
32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course	111.39	
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course	106.65	
32 11 16 16-0005 CY Recycled Base Course	102.29	
32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)		
32 11 16 16-0007 SY 2" Class II Graded Crushed Aggregate Base Course.....	6.15	
For Up To 500, Add	1.56	
For >500 To 1,000, Add	0.62	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000, Deduct	-0.40	
32 11 16 16-0008 SY 4" Class II Crushed Aggregate Base Course.....	12.30	
For Up To 500, Add	3.11	
For >500 To 1,000, Add	1.23	
For >5,000 To 10,000, Deduct	-0.47	
For >10,000, Deduct	-0.80	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 11 Base Courses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 16	16-0009	SY	6" Class II Crushed Aggregate Base Course	18.45	
			For Up To 500, Add	4.67	
			For >500 To 1,000, Add	1.85	
			For >5,000 To 10,000, Deduct	-0.70	
			For >10,000, Deduct	-1.20	
32 11 16	16-0010	SY	9" Class II Crushed Aggregate Base Course	27.68	
			For Up To 500, Add	7.00	
			For >500 To 1,000, Add	2.77	
			For >5,000 To 10,000, Deduct	-1.05	
			For >10,000, Deduct	-1.80	
32 11 16	16-0011	SY	12" Class II Crushed Aggregate Base Course	36.90	
			For Up To 500, Add	9.33	
			For >500 To 1,000, Add	3.69	
			For >5,000 To 10,000, Deduct	-1.40	
			For >10,000, Deduct	-2.40	
32 11 23 Aggregate Base Courses (32 11)					
32 11 23 16 Aggregate Base Courses (32 11 23)					
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)					
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.					
32 11 23	16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks	0.77	
			For Up To 1,000, Add	0.21	
			For >1,000 To 2,500, Add	0.08	
32 11 23	16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks	1.07	
			For Up To 1,000, Add	0.29	
			For >1,000 To 2,500, Add	0.11	
32 11 23	16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks	1.39	
			For Up To 1,000, Add	0.38	
			For >1,000 To 2,500, Add	0.14	
32 11 23	16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks	1.80	
			For Up To 1,000, Add	0.50	
			For >1,000 To 2,500, Add	0.18	
32 11 23	16-0006	SF	6" Crushed Aggregate Base Course For Sidewalks	2.22	
			For Up To 1,000, Add	0.61	
			For >1,000 To 2,500, Add	0.22	
32 11 23	16-0007	SF	7" Crushed Aggregate Base Course For Sidewalks	2.56	
			For Up To 1,000, Add	0.70	
			For >1,000 To 2,500, Add	0.26	
32 11 23	16-0008	SF	8" Crushed Aggregate Base Course For Sidewalks	2.90	
			For Up To 1,000, Add	0.80	
			For >1,000 To 2,500, Add	0.29	
32 11 26 Asphaltic Base Courses (32 11)					
32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)					
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)					
32 11 26	19-0002	CY	Bituminous Stabilized Base Course	104.56	
Note: 3/4" ASTM C33.					
32 12 Flexible Paving (32 10)					
32 12 13 Preparatory Coats (32 12)					
32 12 13 13 Tack Coats (32 12 13)					
32 12 13	13-0001	TON	Tack Coat (Monterey County)	1,653.11	
32 12 13 19 Prime Coats (32 12 13)					
32 12 13	19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY	1.88	
			For Up To 150, Add	0.42	
			For >150 To 300, Add	0.19	
			For >300 To 500, Add	0.09	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.13	
32 12 13	19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY	1.99	
			For Up To 150, Add	0.45	
			For >150 To 300, Add	0.20	
			For >300 To 500, Add	0.10	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.14	
32 12 13	19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY	2.09	
			For Up To 150, Add	0.48	
			For >150 To 300, Add	0.21	
			For >300 To 500, Add	0.10	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 12 16 Asphalt Paving (32 12)

32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0050 for hauling greater than 15 miles. 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)

Note: Meets Caltrans requirements.

32 12 16 13-0002	TON Bituminous Hot Mix Intermediate Binder Course 3,954 LB/CY.....	143.79	
	Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
	For PG64-10 Asphalt, Add	16.55	
	For Up To 25, Add	20.41	
	For >25 To 50, Add	11.38	
	For >500 To 1,000, Deduct	-6.00	
	For >1,000 To 2,500, Deduct	-10.89	
	For >2,500 To 5,000, Deduct	-16.89	
	For >5,000, Deduct	-24.23	
32 12 16 13-0003	SY 1" Thick Bituminous Hot Mix Intermediate Binder Course	8.17	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	0.91	
	For Up To 1,000, Add	1.20	
	For >1,000 To 2,000, Add	0.67	
	For >10,000 To 20,000, Deduct	-0.35	
	For >20,000 To 50,000, Deduct	-0.63	
	For >50,000 To 100,000, Deduct	-0.98	
	For >100,000, Deduct	-1.40	
32 12 16 13-0004	SY 1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	12.12	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	1.36	
	For Up To 700, Add	1.76	
	For >700 To 1,400, Add	0.99	
	For >7,000 To 14,000, Deduct	-0.51	
	For >14,000 To 32,000, Deduct	-0.94	
	For >32,000 To 64,000, Deduct	-1.45	
	For >64,000, Deduct	-2.09	
32 12 16 13-0005	SY 2" Thick Bituminous Hot Mix Intermediate Binder Course	15.61	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	1.82	
	For Up To 500, Add	2.19	
	For >500 To 1,000, Add	1.22	
	For >5,000 To 10,000, Deduct	-0.68	
	For >10,000 To 24,000, Deduct	-1.23	
	For >24,000 To 48,000, Deduct	-1.91	
	For >48,000, Deduct	-2.74	
32 12 16 13-0006	SY 2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	19.73	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	2.27	
	For Up To 400, Add	2.80	
	For >400 To 800, Add	1.56	
	For >4,000 To 8,000, Deduct	-0.85	
	For >8,000 To 20,000, Deduct	-1.55	
	For >20,000 To 40,000, Deduct	-2.40	
	For >40,000, Deduct	-3.44	
32 12 16 13-0007	SY 3" Thick Bituminous Hot Mix Intermediate Binder Course	23.69	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	2.73	
	For Up To 340, Add	3.36	
	For >340 To 680, Add	2.78	
	For >3,400 To 6,800, Deduct	-1.02	
	For >6,800 To 17,000, Deduct	-1.86	
	For >17,000 To 34,000, Deduct	-2.88	
	For >34,000, Deduct	-4.13	
32 12 16 13-0008	SY 3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	27.64	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	3.18	
	For Up To 280, Add	3.92	
	For >280 To 560, Add	2.19	
	For >2,800 To 5,600, Deduct	-1.19	
	For >5,600 To 14,000, Deduct	-2.17	
	For >14,000 To 28,000, Deduct	-3.35	
	For >28,000, Deduct	-4.82	
32 12 16 13-0009	SY 4" Thick Bituminous Hot Mix Intermediate Binder Course	31.57	
	Note: Includes placement, rolling, finishing and sweeping.		
	For PG64-10 Asphalt, Add	3.63	
	For Up To 250, Add	4.48	
	For >250 To 500, Add	2.50	
	For >2,500 To 5,000, Deduct	-1.36	
	For >5,000 To 12,000, Deduct	-2.47	
	For >12,000 To 24,000, Deduct	-3.83	
	For >24,000, Deduct	-5.51	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 12 16 13-0010	SY 5" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	39.48	
	<i>For PG64-10 Asphalt, Add</i>	4.54	
	<i>For Up To 200, Add</i>	5.60	
	<i>For >200 To 400, Add</i>	3.12	
	<i>For >2,000 To 4,000, Deduct</i>	-1.70	
	<i>For >4,000 To 10,000, Deduct</i>	-3.09	
	<i>For >10,000 To 20,000, Deduct</i>	-4.79	
	<i>For >20,000, Deduct</i>	-6.88	
32 12 16 13-0011	SY 6" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	47.37	
	<i>For PG64-10 Asphalt, Add</i>	5.45	
	<i>For Up To 160, Add</i>	6.72	
	<i>For >160 To 320, Add</i>	3.75	
	<i>For >1,600 To 3,200, Deduct</i>	-2.04	
	<i>For >3,200 To 8,000, Deduct</i>	-3.71	
	<i>For >8,000 To 16,000, Deduct</i>	-5.75	
	<i>For >16,000, Deduct</i>	-8.26	
32 12 16 13-0012	Surface Wearing Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small> Note: Meets Caltrans requirements.		
32 12 16 13-0013	TON Bituminous Hot Mix Surface Course 3954 LB/CY Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	147.12	
	<i>For PG64-10 Asphalt, Add</i>	2.63	
	<i>For Up To 25, Add</i>	22.25	
	<i>For >25 To 50, Add</i>	12.59	
	<i>For >500 To 1,000, Deduct</i>	-5.87	
	<i>For >1,000 To 2,500, Deduct</i>	-10.68	
	<i>For >2,500 To 5,000, Deduct</i>	-16.55	
	<i>For >5,000, Deduct</i>	-23.77	
32 12 16 13-0014	TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	163.57	
	<i>For Up To 25, Add</i>	25.15	
	<i>For >25 To 50, Add</i>	14.28	
	<i>For >500 To 1,000, Deduct</i>	-6.44	
	<i>For Warm Mix Additive, Add</i>	7.46	
32 12 16 13-0015	TON Asphalt Rubberized Hot Mix (ARHM) Surface Course Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	174.09	
	<i>For Up To 25, Add</i>	26.20	
	<i>For >25 To 50, Add</i>	14.81	
	<i>For >500 To 1,000, Deduct</i>	-6.97	
	<i>For >1,000 To 2,500, Deduct</i>	-12.68	
	<i>For >2,500 To 5,000, Deduct</i>	-19.65	
	<i>For >5,000, Deduct</i>	-28.22	
	<i>For Warm Mix Additive, Add</i>	8.14	
32 12 16 13-0016	SY 1" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	8.04	
	<i>For PG64-10 Asphalt, Add</i>	0.14	
	<i>For Up To 1,000, Add</i>	1.26	
	<i>For >1,000 To 2,000, Add</i>	0.72	
	<i>For >10,000 To 20,000, Deduct</i>	-0.33	
	<i>For >20,000 To 50,000, Deduct</i>	-0.60	
	<i>For >50,000 To 100,000, Deduct</i>	-0.92	
	<i>For >100,000, Deduct</i>	-1.33	
32 12 16 13-0017	SY 1-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	11.90	
	<i>For PG64-10 Asphalt, Add</i>	0.21	
	<i>For Up To 700, Add</i>	1.84	
	<i>For >700 To 1,400, Add</i>	1.05	
	<i>For >7,000 To 14,000, Deduct</i>	-0.49	
	<i>For >14,000 To 32,000, Deduct</i>	-0.89	
	<i>For >32,000 To 64,000, Deduct</i>	-1.38	
	<i>For >64,000, Deduct</i>	-1.98	
32 12 16 13-0018	SY 2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	15.21	
	<i>For PG64-10 Asphalt, Add</i>	0.28	
	<i>For Up To 500, Add</i>	2.27	
	<i>For >500 To 1,000, Add</i>	1.28	
	<i>For >5,000 To 10,000, Deduct</i>	-0.64	
	<i>For >10,000 To 24,000, Deduct</i>	-1.16	
	<i>For >24,000 To 48,000, Deduct</i>	-1.80	
	<i>For >48,000, Deduct</i>	-2.58	
32 12 16 13-0019	SY 2-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	19.27	
	<i>For PG64-10 Asphalt, Add</i>	0.34	
	<i>For Up To 400, Add</i>	2.91	
	<i>For >400 To 800, Add</i>	1.65	
	<i>For >4,000 To 8,000, Deduct</i>	-0.80	
	<i>For >8,000 To 20,000, Deduct</i>	-1.46	
	<i>For >20,000 To 40,000, Deduct</i>	-2.26	
	<i>For >40,000, Deduct</i>	-3.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Wearing Course.....	23.13	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.41	
For Up To 340, Add	3.50	
For >340 To 680, Add	2.81	
For >3,400 To 6,800, Deduct	-0.96	
For >6,800 To 17,000, Deduct	-1.75	
For >17,000 To 34,000, Deduct	-2.71	
For >34,000, Deduct	-3.90	
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	96.16	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 LB/CY.....	381.57	
Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	12.96	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	12.56	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	19.69	
32 12 16 39 Paving Fabrics (32 12 16)		
See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 Geotextile Paving Fabrics (32 12 16 39)		
32 12 16 39-0002 SY 3.6 Ounce/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O).....	1.95	
For Up To 50, Add	0.43	
For >50 To 150, Add	0.32	
For >150 To 250, Add	0.21	
For >250 To 500, Add	0.10	
32 12 16 39-0003 SY 4.1 Ounce/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	2.10	
For Up To 50, Add	0.46	
For >50 To 150, Add	0.34	
For >150 To 250, Add	0.22	
For >250 To 500, Add	0.11	
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane	36.48	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane.....	27.11	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane.....	16.46	
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33)		
Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	3.11	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.63	
32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33)		
Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails	2.08	
32 12 36 Seal Coats (32 12)		
See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)		
32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County) (32 12 36 13)		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,538.10	
32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003)		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.10	
For Each Additional 0.5% Latex Additive, Add	0.57	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.61	
For Each Additional 0.5% Latex Additive, Add	0.57	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36	13-0007	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.38	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0008	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.13	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0009	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.00	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0010	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.90	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0011	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.76	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0012	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.70	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.57	
32 12 36	13-0013		Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
			Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36	13-0014	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.95	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0015	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.40	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0016	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.12	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0017	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.97	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0018	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.66	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0019	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.47	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0020	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.31	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0021	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.23	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.71	
32 12 36	13-0022		Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
			Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36	13-0023	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.71	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0024	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.09	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0025	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.76	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0026	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.41	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0027	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.22	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0028	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.95	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0029	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.76	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0030	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.67	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.85	
32 12 36	13-0031		Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
			Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36	13-0032	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.79	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0033	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.16	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0034	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.84	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0035	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.49	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0036	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.30	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0037	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.11	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0038	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.85	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0039	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.75	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.97	
32 12 36	13-0040		Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
			Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36	13-0041	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	10.22	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.41	
32 12 36	13-0042	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	9.40	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0043 SY >500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.93	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0044 SY >1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.40	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0045 SY >5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.11	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0046 SY >10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.77	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0047 SY >20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.50	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0048 SY >50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.36	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>1.41</i>	
32 12 36 13-0049 Asphalt Emulsion Seal Coat (Scrub Seal) <small>(32 12 36 13)</small>		
<small>Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.</small>		
32 12 36 13-0050 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) <small>(32 12 36 13-0049)</small>		
<small>Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0051 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.62	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0052 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.34	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0053 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.14	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0054 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.93	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0055 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.81	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0056 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.71	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0057 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.60	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0058 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.56	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.57</i>	
32 12 36 13-0059 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) <small>(32 12 36 13-0049)</small>		
<small>Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0060 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.50	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0061 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.17	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0062 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.94	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0063 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.79	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0064 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.48	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0065 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.29	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0066 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.16	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0067 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.11	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.71</i>	
32 12 36 13-0068 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) <small>(32 12 36 13-0049)</small>		
<small>Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0069 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.31	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0070 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.88	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0071 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.58	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0072 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.23	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0073 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.05	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0074 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.77	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0075 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.60	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	
32 12 36 13-0076 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.54	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.85</i>	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 12 36 13-0077	Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) <small>(32 12 36 13-0049)</small>	
	Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.	
32 12 36 13-0078	SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.40
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0079	SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.98
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0080	SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.65
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0081	SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.29
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0082	SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.11
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0083	SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.94
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0084	SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.69
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0085	SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.63
	For Each Additional 0.5% Latex Additive, Add	0.97
32 12 36 13-0086	Sand Sealer <small>(32 12 36 13)</small>	
	Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.	
32 12 36 13-0087	SY Up To 200 SY, Sand Seal.....	2.88
32 12 36 13-0088	SY >200 To 500 SY, Sand Seal.....	1.92
32 12 36 13-0089	SY >500 To 1,000 SY, Sand Seal.....	1.89
32 12 36 13-0090	SY >1,000 To 5,000 SY, Sand Seal.....	1.68
32 12 36 13-0091	SY >5,000 To 10,000 SY, Sand Seal.....	1.56
32 12 36 13-0092	SY >10,000 To 20,000 SY, Sand Seal.....	1.46
32 12 36 13-0093	SY >20,000 To 50,000 SY, Sand Seal.....	1.38
32 12 36 13-0094	SY >50,000 SY, Sand Seal.....	1.36
32 12 36 16	Coal Tar Seal Coats <small>(32 12 36)</small>	
32 12 36 16-0001	Thermoplastic Coal-Tar Asphalt Seal <small>(32 12 36 16)</small>	
	Note: Includes sweeping and cleaning of area.	
32 12 36 16-0002	SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	16.01
32 12 36 16-0003	SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	15.08
32 12 36 16-0004	SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	13.29
32 12 36 16-0005	SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	11.95
32 12 36 16-0006	SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	10.17
32 12 36 16-0007	SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	8.38
32 12 36 16-0008	SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	19.49
32 12 36 16-0009	SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	18.44
32 12 36 16-0010	SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	16.29
32 12 36 16-0011	SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	14.70
32 12 36 16-0012	SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	12.57
32 12 36 16-0013	SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	10.42
32 12 43	Porous Flexible Paving <small>(32 12)</small>	
32 12 43 00-0001	Flexible Recycled Plastic Porous Grid <small>(32 12 43)</small>	
	Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.	
32 12 43 00-0002	SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	39.35
	Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.	
	For Up To 100, Add	13.18
	For >100 To 500, Add	3.31
	For >1,000 To 5,000, Deduct	-1.34
	For >5,000, Deduct	-2.79
32 12 73	Asphalt Paving Joint Sealants <small>(32 12)</small>	
32 12 73 00-0001	Expansion Joint In Sidewalk <small>(32 12 73)</small>	
32 12 73 00-0002	LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk.....	3.51
32 13	Rigid Paving <small>(32 10)</small>	
32 13 13	Concrete Paving <small>(32 13)</small>	
	Note: The following section includes spreading and placing delivered Portland cement concrete mix.	
32 13 13 33	Plain Concrete Paving <small>(32 13 13)</small>	
32 13 13 33-0001	Concrete Paving Assemblies <small>(32 13 13 33)</small>	
	Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.	



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Rigid Paving	32 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0002 4,500 PSI Concrete Paving Assembly <small>(32 13 13 33-0001)</small>		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly.....	60.56	
For 2,500 PSI Concrete, Deduct	-3.49	
For 3,000 PSI Concrete, Deduct	-2.28	
For 3,500 PSI Concrete, Deduct	-1.82	
For 4,000 PSI Concrete, Deduct	-0.79	
For 5,000 PSI Concrete, Add	0.49	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	3.95	
For <12' Wide Pass, Add	10.59	
For 24' Or Greater Wide Pass, Deduct	-12.11	
For Air Entrainment, Add	1.52	
For Slipforming, Deduct	-6.06	
For Up To 100, Add	24.19	
For >100 To 250, Add	13.61	
For >250 To 500, Add	6.81	
For >1,000 To 2,000, Deduct	-1.52	
For >2,000 To 5,000, Deduct	-3.03	
For >5,000 To 10,000, Deduct	-4.55	
For >10,000 To 20,000, Deduct	-6.06	
For >20,000, Deduct	-7.57	
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly.....	71.65	
For 2,500 PSI Concrete, Deduct	-4.38	
For 3,000 PSI Concrete, Deduct	-2.86	
For 3,500 PSI Concrete, Deduct	-2.29	
For 4,000 PSI Concrete, Deduct	-0.99	
For 5,000 PSI Concrete, Add	0.61	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.95	
For <12' Wide Pass, Add	12.20	
For 24' Or Greater Wide Pass, Deduct	-14.33	
For Air Entrainment, Add	1.91	
For Slipforming, Deduct	-7.17	
For Up To 100, Add	27.75	
For >100 To 250, Add	15.78	
For >250 To 500, Add	7.89	
For >1,000 To 2,000, Deduct	-1.91	
For >2,000 To 5,000, Deduct	-3.70	
For >5,000 To 10,000, Deduct	-5.49	
For >10,000 To 20,000, Deduct	-7.28	
For >20,000, Deduct	-9.07	
32 13 13 33-0005 SY 6" 4,500 PSI Concrete Paving Assembly.....	76.54	
For 2,500 PSI Concrete, Deduct	-4.62	
For 3,000 PSI Concrete, Deduct	-3.01	
For 3,500 PSI Concrete, Deduct	-2.41	
For 4,000 PSI Concrete, Deduct	-1.04	
For 5,000 PSI Concrete, Add	0.64	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.22	
For <12' Wide Pass, Add	13.11	
For 24' Or Greater Wide Pass, Deduct	-15.31	
For Air Entrainment, Add	2.01	
For Slipforming, Deduct	-7.65	
For Up To 100, Add	29.85	
For >100 To 250, Add	16.93	
For >250 To 500, Add	8.47	
For >1,000 To 2,000, Deduct	-2.01	
For >2,000 To 5,000, Deduct	-3.92	
For >5,000 To 10,000, Deduct	-5.84	
For >10,000 To 20,000, Deduct	-7.75	
For >20,000, Deduct	-9.66	
32 13 13 33-0006 SY 7" 4,500 PSI Concrete Paving Assembly.....	90.96	
For 2,500 PSI Concrete, Deduct	-5.83	
For 3,000 PSI Concrete, Deduct	-3.80	
For 3,500 PSI Concrete, Deduct	-3.04	
For 4,000 PSI Concrete, Deduct	-1.32	
For 5,000 PSI Concrete, Add	0.81	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.59	
For <12' Wide Pass, Add	15.14	
For 24' Or Greater Wide Pass, Deduct	-18.19	
For Air Entrainment, Add	2.53	
For Slipforming, Deduct	-9.10	
For Up To 100, Add	34.30	
For >100 To 250, Add	19.68	
For >250 To 500, Add	9.84	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000 To 5,000, Deduct	-4.81	
For >5,000 To 10,000, Deduct	-7.08	
For >10,000 To 20,000, Deduct	-9.36	
For >20,000, Deduct	-11.63	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 13 33-0007	SY		8" 4,500 PSI Concrete Paving Assembly.....	103.95	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.40	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.17	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.34	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.45	
			<i>For 5,000 PSI Concrete, Add</i>	0.89	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	7.23	
			<i>For <12' Wide Pass, Add</i>	17.64	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-20.79	
			<i>For Air Entrainment, Add</i>	2.78	
			<i>For Slipforming, Deduct</i>	-10.40	
			<i>For Up To 100, Add</i>	40.12	
			<i>For >100 To 250, Add</i>	22.84	
			<i>For >250 To 500, Add</i>	11.42	
			<i>For >1,000 To 2,000, Deduct</i>	-2.78	
			<i>For >2,000 To 5,000, Deduct</i>	-5.38	
			<i>For >5,000 To 10,000, Deduct</i>	-7.98	
			<i>For >10,000 To 20,000, Deduct</i>	-10.58	
			<i>For >20,000, Deduct</i>	-13.18	
32 13 13 33-0008	SY		9" 4,500 PSI Concrete Paving Assembly.....	117.64	
			<i>For 2,500 PSI Concrete, Deduct</i>	-7.39	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.82	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.86	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.67	
			<i>For 5,000 PSI Concrete, Add</i>	1.03	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.36	
			<i>For <12' Wide Pass, Add</i>	19.77	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-23.53	
			<i>For Air Entrainment, Add</i>	3.21	
			<i>For Slipforming, Deduct</i>	-11.76	
			<i>For Up To 100, Add</i>	44.87	
			<i>For >100 To 250, Add</i>	25.65	
			<i>For >250 To 500, Add</i>	12.82	
			<i>For >1,000 To 2,000, Deduct</i>	-3.21	
			<i>For >2,000 To 5,000, Deduct</i>	-6.16	
			<i>For >5,000 To 10,000, Deduct</i>	-9.10	
			<i>For >10,000 To 20,000, Deduct</i>	-12.04	
			<i>For >20,000, Deduct</i>	-14.98	
32 13 13 33-0009	SY		10" 4,500 PSI Concrete Paving Assembly.....	131.13	
			<i>For 2,500 PSI Concrete, Deduct</i>	-8.13	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.30	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.24	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.84	
			<i>For 5,000 PSI Concrete, Add</i>	1.13	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	9.19	
			<i>For <12' Wide Pass, Add</i>	22.17	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-26.23	
			<i>For Air Entrainment, Add</i>	3.54	
			<i>For Slipforming, Deduct</i>	-13.11	
			<i>For Up To 100, Add</i>	50.39	
			<i>For >100 To 250, Add</i>	28.73	
			<i>For >250 To 500, Add</i>	14.37	
			<i>For >1,000 To 2,000, Deduct</i>	-3.54	
			<i>For >2,000 To 5,000, Deduct</i>	-6.81	
			<i>For >5,000 To 10,000, Deduct</i>	-10.09	
			<i>For >10,000 To 20,000, Deduct</i>	-13.37	
			<i>For >20,000, Deduct</i>	-16.65	
32 13 13 33-0010	SY		12" 4,500 PSI Concrete Paving Assembly.....	156.22	
			<i>For 2,500 PSI Concrete, Deduct</i>	-9.63	
			<i>For 3,000 PSI Concrete, Deduct</i>	-6.28	
			<i>For 3,500 PSI Concrete, Deduct</i>	-5.02	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.18	
			<i>For 5,000 PSI Concrete, Add</i>	1.34	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	10.89	
			<i>For <12' Wide Pass, Add</i>	26.49	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-31.24	
			<i>For Air Entrainment, Add</i>	4.19	
			<i>For Slipforming, Deduct</i>	-15.62	
			<i>For Up To 100, Add</i>	60.24	
			<i>For >100 To 250, Add</i>	34.31	
			<i>For >250 To 500, Add</i>	17.15	
			<i>For >1,000 To 2,000, Deduct</i>	-4.19	
			<i>For >2,000 To 5,000, Deduct</i>	-8.09	
			<i>For >5,000 To 10,000, Deduct</i>	-12.00	
			<i>For >10,000 To 20,000, Deduct</i>	-15.90	
			<i>For >20,000, Deduct</i>	-19.81	



Exterior Improvements	32
Bases, Ballasts, and Paving	32 10
Rigid Paving	32 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly.....	199.02	
For 2,500 PSI Concrete, Deduct	-11.83	
For 3,000 PSI Concrete, Deduct	-7.71	
For 3,500 PSI Concrete, Deduct	-6.17	
For 4,000 PSI Concrete, Deduct	-2.67	
For 5,000 PSI Concrete, Add	1.65	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	13.37	
For <12' Wide Pass, Add	34.33	
For 24' Or Greater Wide Pass, Deduct	-39.80	
For Air Entrainment, Add	5.14	
For Slipforming, Deduct	-19.90	
For Up To 100, Add	78.28	
For >100 To 250, Add	44.28	
For >250 To 500, Add	22.14	
For >1,000 To 2,000, Deduct	-5.14	
For >2,000 To 5,000, Deduct	-10.12	
For >5,000 To 10,000, Deduct	-15.09	
For >10,000 To 20,000, Deduct	-20.07	
For >20,000, Deduct	-25.04	
32 13 16 Decorative Concrete Paving (32 13)		
32 13 16 13 Patterned Concrete Paving (32 13 16)		
See CSI section 32 17 26 00-0000 for tactile warning surfaces.		
32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....	5.25	
32 13 43 Pervious Concrete Paving (32 13)		
32 13 43 00-0001 Pervious Concrete Assemblies (32 13 43)		
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	18.04	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.92	
For >30,000 To 100,000, Deduct	-3.51	
For >100,000, Deduct	-4.35	
32 13 43 00-0003 SF 9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	22.93	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-2.37	
For >30,000 To 100,000, Deduct	-4.25	
For >100,000, Deduct	-5.28	
32 13 73 Concrete Paving Joint Sealants (32 13)		
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 Silicone Concrete Pavement Joint And Crack Repair (32 13 73 13-0001)		
32 13 73 13-0003 CLF 1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	619.35	
For Custom Match Coloring, Add	21.94	
For 1 Part Mildew Resistant, Add	31.99	
For High-Modulus Non-Acid Curing, Add	18.28	
32 13 73 13-0004 CLF 1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	700.25	
For Custom Match Coloring, Add	32.91	
For 1 Part Mildew Resistant, Add	47.99	
For High-Modulus Non-Acid Curing, Add	27.42	
32 13 73 13-0005 CLF 1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	781.15	
For Custom Match Coloring, Add	43.88	
For 1 Part Mildew Resistant, Add	63.99	
For High-Modulus Non-Acid Curing, Add	36.56	
32 13 73 13-0006 CLF 3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	804.00	
For Custom Match Coloring, Add	49.36	
For 1 Part Mildew Resistant, Add	71.98	
For High-Modulus Non-Acid Curing, Add	41.13	
32 13 73 13-0007 CLF 3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	890.16	
For Custom Match Coloring, Add	65.81	
For 1 Part Mildew Resistant, Add	95.98	
For High-Modulus Non-Acid Curing, Add	54.84	
32 13 73 13-0008 CLF 3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	976.32	
For Custom Match Coloring, Add	82.27	
For 1 Part Mildew Resistant, Add	119.97	
For High-Modulus Non-Acid Curing, Add	68.56	
32 13 73 13-0009 CLF 3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,080.07	
For Custom Match Coloring, Add	98.72	
For 1 Part Mildew Resistant, Add	143.97	
For High-Modulus Non-Acid Curing, Add	82.27	
32 13 73 13-0010 CLF 1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	999.17	
For Custom Match Coloring, Add	87.75	
For 1 Part Mildew Resistant, Add	127.97	
For High-Modulus Non-Acid Curing, Add	73.13	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73	13-0011	CLF	1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,160.96 109.69 159.96 91.41	
32 13 73	13-0012	CLF	1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,287.57 131.63 191.96 109.69	
32 13 73	13-0013	CLF	1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,414.18 153.57 223.95 127.97	
32 13 73	13-0014	CLF	1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,523.19 175.50 255.94 146.25	
32 13 73	13-0015	CLF	3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,632.18 197.44 287.93 164.53	
32 13 73	13-0016	CLF	3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,987.31 274.22 399.91 228.52	
32 13 73	13-0017	CLF	1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	2,342.43 351.01 511.89 292.51	
32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)					
32 13 73	16-0001		Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16) Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73	16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	13.48	
32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)					
32 13 73	19-0001		Silicone Joint Sealant For Concrete Pavement (32 13 73 19) Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73	19-0002	LF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.42	2.62
32 13 73	19-0003	LF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.05	2.67
32 13 73	19-0004	LF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.94	2.72
32 13 73	19-0005	LF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	15.88	2.77
32 13 73	19-0006	LF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	18.86	2.84
32 13 73	19-0007	LF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	24.71	2.89
32 13 73	19-0008	LF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	37.73	2.95
32 14 Unit Paving (32 10)					
32 14 09 Paver Restraints (32 14)					
32 14 09	00-0001		Paver Restraints (32 14 09) Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09	00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	5.13	1.14
			<i>For >1,000 To 2,000, Deduct</i>	-0.73	
			<i>For >2,000 To 4,000, Deduct</i>	-1.06	
			<i>For >4,000, Deduct</i>	-1.35	
32 14 09	00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	5.57	1.14
			<i>For >500 To 1,000, Deduct</i>	-0.19	
			<i>For >1,000 To 2,000, Deduct</i>	-0.37	
			<i>For >2,000, Deduct</i>	-0.56	
32 14 09	00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	5.35	1.14
			<i>For >250 To 500, Deduct</i>	-0.35	
			<i>For >500 To 1,000, Deduct</i>	-0.53	
			<i>For >1,000 To 1,500, Deduct</i>	-0.88	
32 14 09	00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	6.34	1.14
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500 To 1,000, Deduct</i>	-0.68	
			<i>For >1,000 To 1,500, Deduct</i>	-1.13	
32 14 09	00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	8.23	1.14
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500 To 1,000, Deduct</i>	-0.96	
			<i>For >1,000 To 1,500, Deduct</i>	-1.60	
32 14 09	00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	9.69	1.14
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.18	
			<i>For >1,000 To 1,500, Deduct</i>	-1.97	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 14 11 Bedding for Unit Paving (32 14)

32 14 11 00-0001	Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11) Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 14 11 00-0002	SF 1" To 2" Sand Bedding, Screeded <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	1.11 0.49 0.14 -0.09 -0.14	
32 14 11 00-0003	SF 1" To 2" Stone Dust Bedding, Screeded <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	1.31 0.54 0.15 -0.09 -0.14	
32 14 11 00-0004	SF 3" Stone Dust Bedding, Screeded <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	1.69 0.68 0.19 -0.10 -0.17	
32 14 11 00-0005	SF 4" Stone Dust Bedding, Screeded <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	2.14 0.84 0.23 -0.12 -0.21	
32 14 11 00-0006	SF 1" Mortar Bedding..... <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	3.43 1.56 0.45 -0.28 -0.44	
32 14 11 00-0007	SF 2" Mortar Bedding..... <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	4.98 2.17 0.62 -0.37 -0.59	
32 14 11 00-0008	SF Thin-Set Latex Portland Cement Mortar <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	1.74 0.81 0.24 -0.15 -0.23	

32 14 13 Precast Concrete Unit Paving (32 14)

32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)

32 14 13 16-0001	Precast Concrete Paver Sidewalk (32 14 13 16) Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 13 16-0002	SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver..... Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers. <i>For 2-3/4" Concrete Paver, Add</i> <i>For 3-1/8" Concrete Paver, Add</i> <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	12.12 1.12 1.81 0.95 4.77 1.30 -0.70 -1.20	3.47
32 14 13 16-0003	SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers. <i>For 2-3/4" Concrete Paver, Add</i> <i>For 3-1/8" Concrete Paver, Add</i> <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	11.48 1.09 1.76 0.89 4.45 1.21 -0.63 -1.10	3.17
32 14 13 16-0004	SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver Note: Includes 6" x 12", 12" x 12" and other similar size pavers. <i>For 2-3/4" Concrete Paver, Add</i> <i>For 3-1/8" Concrete Paver, Add</i> <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	10.91 1.06 1.72 0.83 4.17 1.12 -0.58 -1.02	2.52
32 14 13 16-0005	SF 2-3/8" Thick, >144 SI Precast Concrete Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. <i>For 2-3/4" Concrete Paver, Add</i> <i>For 3-1/8" Concrete Paver, Add</i> <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	10.38 1.03 1.68 0.78 3.90 1.04 -0.52 -0.94	2.62

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0006	SF		2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups.	11.19	3.01
			For 2-3/4" Concrete Paver, Add	1.07	
			For 3-1/8" Concrete Paver, Add	1.74	
			For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.86	
			For Up To 100, Add	4.31	
			For >100 To 500, Add	1.16	
			For >1,000 To 5,000, Deduct	-0.60	
			For >5,000, Deduct	-1.06	
32 14 13 19			Porous Precast Concrete Unit Paving ^(32 14 13)		
32 14 13 19-0001			Turf Block ^(32 14 13 19) Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002	SF		3-1/8" Thick, Precast Concrete Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.71 4.69 1.24 -0.60 -1.11	3.01
32 14 16			Brick Unit Paving ^(32 14)		
32 14 16 00-0001			Brick Paver Sidewalk ^(32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002	SF		4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.74 -3.42 7.83 1.14 5.68 1.48 -0.70 -1.31	3.47
32 14 16 00-0003	SF		4" x 8" x 2-1/4" Brick, Laid On Edge For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	23.52 -5.85 13.70 1.57 7.86 1.97 -0.79 -1.66	3.97
32 14 33			Plastic Paving ^(32 14)		
32 14 33 13			Permeable Plastic Paving ^(32 14 33)		
32 14 33 13-0001			Turf Block Plastic Paving ^(32 14 33 13)		
32 14 33 13-0002	SF		4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	19.27 6.33 1.57 -0.60 -1.30	3.01
32 14 40			Stone Paving ^(32 14)		
32 14 40 00-0001			Slate Paver Sidewalk ^(32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF		1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.60 1.12 -8.38 -5.85 5.59 1.41 -0.58 -1.19	2.89
32 14 40 00-0003	SF		1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.07 1.07 -8.25 -5.77 5.33 1.33 -0.52 -1.11	2.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0004 SF 1" Thick, >108 to 216 SI Slate Paver.....	15.17	2.16
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.98	
For 1/4" Thick Paver, Deduct	-8.02	
For 1/2" Thick Paver, Deduct	-5.64	
For Up To 100, Add	4.88	
For >100 To 500, Add	1.19	
For >1,000 To 5,000, Deduct	-0.43	
For >5,000, Deduct	-0.97	
32 14 40 00-0005 SF 1" Thick, >216 SI Slate Paver.....	14.78	1.96
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.94	
For 1/4" Thick Paver, Deduct	-7.92	
For 1/2" Thick Paver, Deduct	-5.58	
For Up To 100, Add	4.68	
For >100 To 500, Add	1.13	
For >1,000 To 5,000, Deduct	-0.39	
For >5,000, Deduct	-0.92	
32 14 40 00-0006 SF 1" Thick, Slate Paver, Combinations And Patterns.....	15.58	2.37
Note: Patterns made by combining pavers from two or more size groups.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.02	
For 1/4" Thick Paver, Deduct	-8.12	
For 1/2" Thick Paver, Deduct	-5.70	
For Up To 100, Add	5.08	
For >100 To 500, Add	1.25	
For >1,000 To 5,000, Deduct	-0.47	
For >5,000, Deduct	-1.04	
32 14 40 00-0007 Granite Paver Sidewalk <small>(32 14 40)</small>		
Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008 SF 1" Thick, Up to 54 SI Granite Paver.....	26.55	2.89
Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.62	
For 2" Granite Paver, Add	1.33	
For 3" Granite Paver, Add	2.66	
For 4" Granite Paver, Add	2.94	
For Up To 100, Add	8.08	
For >100 To 500, Add	1.90	
For >1,000 To 5,000, Deduct	-0.58	
For >5,000, Deduct	-1.49	
32 14 40 00-0009 SF 1" Thick, >54 to 108 SI Granite Paver.....	26.02	2.62
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.56	
For 2" Granite Paver, Add	1.30	
For 3" Granite Paver, Add	2.60	
For 4" Granite Paver, Add	2.86	
For Up To 100, Add	7.81	
For >100 To 500, Add	1.82	
For >1,000 To 5,000, Deduct	-0.52	
For >5,000, Deduct	-1.41	
32 14 40 00-0010 SF 1" Thick, >108 to 216 SI Granite Paver.....	25.12	2.16
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.47	
For 2" Granite Paver, Add	1.26	
For 3" Granite Paver, Add	2.51	
For 4" Granite Paver, Add	2.73	
For Up To 100, Add	7.36	
For >100 To 500, Add	1.69	
For >1,000 To 5,000, Deduct	-0.43	
For >5,000, Deduct	-1.27	
32 14 40 00-0011 SF 1" Thick, >216 SI Granite Paver.....	24.73	1.96
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.43	
For 2" Granite Paver, Add	1.24	
For 3" Granite Paver, Add	2.47	
For 4" Granite Paver, Add	2.67	
For Up To 100, Add	7.17	
For >100 To 500, Add	1.63	
For >1,000 To 5,000, Deduct	-0.39	
For >5,000, Deduct	-1.21	
32 14 40 00-0012 SF 1" Thick, Granite Paver, Combinations And Patterns.....	25.53	2.37
Note: Patterns made by combining pavers from two or more size groups.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.51	
For 2" Granite Paver, Add	1.28	
For 3" Granite Paver, Add	2.55	
For 4" Granite Paver, Add	2.79	
For Up To 100, Add	7.57	
For >100 To 500, Add	1.75	
For >1,000 To 5,000, Deduct	-0.47	
For >5,000, Deduct	-1.33	
32 14 40 00-0013 Cobble Stone <small>(32 14 40)</small>		
Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 14 40 00-0014	SF		4" to 8" diameter cobble stones, various colors, Up To 500 SF Note: Half embedded in minimum 6" thick 2500 psi concrete mix.	35.55	
32 14 40 00-0015	SF		4" to 8" diameter cobble stones, various colors, > 500 SF Note: Half embedded in minimum 6" thick 2500 psi concrete mix.	27.96	

32 15 Aggregate Surfacing (32 10)**32 15 40 Crushed Stone Surfacing** (32 15)

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002	CY		Gravel Surfacing And Spreading	106.99	
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32 15 40 00-0003 Limestone Screenings (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004	CY		Limestone Screenings For Trail	73.40	
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32 15 40 00-0005 Decomposed Granite (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	19.62	
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Note: Placed in 2 lifts.

For Additional 2" Lift

9.81

For >45 To 180, Deduct

-1.31

For >180 To 450, Deduct

-1.64

For >450, Deduct

-1.97

32 16 Curbs, Gutters, Sidewalks, and Driveways (32 10)**32 16 13 Curbs and Gutters** (32 16)

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.

32 16 13 13 Cast-In-Place Concrete Curbs and Gutters (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001 Cast In Place Concrete Curbs Assemblies (32 16 13 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0002	LF		"B3" Cast In Place Concrete Curb	12.72	11.54
32 16 13 13-0003	LF		"B3" Cast In Place Concrete Curb - Radius	14.44	13.27
32 16 13 13-0004	LF		"B1" Cast In Place Concrete Curb	28.59	11.54
32 16 13 13-0005	LF		"B1" Cast In Place Concrete Curb - Radius	32.72	12.70
32 16 13 13-0006	LF		"A1-150" Cast In Place Concrete Curb	27.98	11.54
32 16 13 13-0007	LF		"A1-150" Cast In Place Concrete Curb - Radius	32.03	12.70
32 16 13 13-0008	LF		"A1-200" Cast In Place Concrete Curb	28.86	11.54
32 16 13 13-0009	LF		"A1-200" Cast In Place Concrete Curb - Radius	33.02	12.70
32 16 13 13-0010	LF		6" x 12" Cast In Place Concrete Curb (Type A1-6)	23.61	11.54
			For Mountable Curb, Add	1.56	
			For Up To 20, Add	13.96	
			For >20 To 50, Add	7.90	
			For >50 To 100, Add	3.03	
			For >500 To 1,000, Deduct	-3.03	
			For >1,000, Deduct	-5.13	
32 16 13 13-0011	LF		6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	26.84	13.27
			For Mountable Curb, Add	1.83	
			For Up To 20, Add	16.04	
			For >20 To 50, Add	9.09	
			For >50 To 100, Add	3.48	
			For >500 To 1,000, Deduct	-3.48	
			For >1,000, Deduct	-5.89	
32 16 13 13-0012	LF		6" x 14" Cast In Place Concrete Curb (Type A1-8)	25.78	11.54
			For Mountable Curb, Add	1.71	
			For Up To 20, Add	15.26	
			For >20 To 50, Add	8.64	
			For >50 To 100, Add	3.31	
			For >500 To 1,000, Deduct	-3.31	
			For >1,000, Deduct	-5.61	
32 16 13 13-0013	LF		6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	29.35	13.27
			For Mountable Curb, Add	2.01	
			For Up To 20, Add	17.56	
			For >20 To 50, Add	9.95	
			For >50 To 100, Add	3.81	
			For >500 To 1,000, Deduct	-3.81	
			For >1,000, Deduct	-6.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0014 LF 6" x 16" Cast In Place Concrete Curb.....	28.18	11.54
<i>For Mountable Curb, Add</i>	1.85	
<i>For Up To 20, Add</i>	16.60	
<i>For >20 To 50, Add</i>	9.40	
<i>For >50 To 100, Add</i>	3.60	
<i>For >500 To 1,000, Deduct</i>	-3.60	
<i>For >1,000, Deduct</i>	-6.11	
32 16 13 13-0015 LF 6" x 16" Cast In Place Concrete Curb - Radius.....	32.01	17.31
<i>For Mountable Curb, Add</i>	2.18	
<i>For Up To 20, Add</i>	19.10	
<i>For >20 To 50, Add</i>	10.82	
<i>For >50 To 100, Add</i>	4.14	
<i>For >500 To 1,000, Deduct</i>	-4.14	
<i>For >1,000, Deduct</i>	-7.01	
32 16 13 13-0016 LF 6" x 18" Cast In Place Concrete Curb.....	30.09	11.54
<i>For Mountable Curb, Add</i>	1.96	
<i>For Up To 20, Add</i>	17.68	
<i>For >20 To 50, Add</i>	10.01	
<i>For >50 To 100, Add</i>	3.84	
<i>For >500 To 1,000, Deduct</i>	-3.84	
<i>For >1,000, Deduct</i>	-6.51	
32 16 13 13-0017 LF 6" x 18" Cast In Place Concrete Curb - Radius.....	33.82	13.27
<i>For Mountable Curb, Add</i>	2.26	
<i>For Up To 20, Add</i>	20.04	
<i>For >20 To 50, Add</i>	11.35	
<i>For >50 To 100, Add</i>	4.35	
<i>For >500 To 1,000, Deduct</i>	-4.35	
<i>For >1,000, Deduct</i>	-7.36	
32 16 13 13-0018 LF 6" x 24" Cast In Place Concrete Curb.....	34.23	12.70
<i>For Mountable Curb, Add</i>	2.10	
<i>For Up To 20, Add</i>	19.68	
<i>For >20 To 50, Add</i>	11.12	
<i>For >50 To 100, Add</i>	4.28	
<i>For >500 To 1,000, Deduct</i>	-4.28	
<i>For >1,000, Deduct</i>	-7.27	
32 16 13 13-0019 LF 6" x 24" Cast In Place Concrete Curb - Radius.....	38.12	14.43
<i>For Mountable Curb, Add</i>	2.38	
<i>For Up To 20, Add</i>	22.05	
<i>For >20 To 50, Add</i>	12.47	
<i>For >50 To 100, Add</i>	4.79	
<i>For >500 To 1,000, Deduct</i>	-4.79	
<i>For >1,000, Deduct</i>	-8.14	
32 16 13 13-0020 LF 12" x 24" Cast In Place Concrete Curb.....	43.53	14.43
<i>For Mountable Curb, Add</i>	2.08	
<i>For Up To 20, Add</i>	23.14	
<i>For >20 To 50, Add</i>	13.01	
<i>For >50 To 100, Add</i>	5.06	
<i>For >500 To 1,000, Deduct</i>	-5.06	
<i>For >1,000, Deduct</i>	-8.68	
32 16 13 13-0021 LF 12" x 24" Cast In Place Concrete Curb - Radius.....	48.29	16.16
<i>For Mountable Curb, Add</i>	2.35	
<i>For Up To 20, Add</i>	25.82	
<i>For >20 To 50, Add</i>	14.53	
<i>For >50 To 100, Add</i>	5.65	
<i>For >500 To 1,000, Deduct</i>	-5.65	
<i>For >1,000, Deduct</i>	-9.68	
32 16 13 13-0022 EA Additional Finish For Handicap Drop Section In Curb.....	86.58	
32 16 13 13-0023 Cast In Place Concrete Curb And Gutter Assemblies <small>(32 16 13 13)</small>		
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0024 LF "A2-6 Modified" Concrete Curb And Gutter - Straight.....	33.10	13.97
<i>For Up To 20, Add</i>	22.31	
<i>For >20 To 50, Add</i>	12.38	
<i>For >50 To 100, Add</i>	4.97	
<i>For >500 To 1,000, Deduct</i>	-4.10	
<i>For >1,000, Deduct</i>	-6.98	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.97	
32 16 13 13-0025 LF "A2-6 Modified" Concrete Curb And Gutter - Radius.....	36.40	13.97
<i>For Up To 20, Add</i>	24.52	
<i>For >20 To 50, Add</i>	13.60	
<i>For >50 To 100, Add</i>	5.46	
<i>For >500 To 1,000, Deduct</i>	-4.50	
<i>For >1,000, Deduct</i>	-7.66	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.15	
32 16 13 13-0026 LF "A2-6" Concrete Curb And Gutter - Straight.....	44.19	18.63
<i>For Up To 20, Add</i>	30.24	
<i>For >20 To 50, Add</i>	16.98	
<i>For >50 To 100, Add</i>	6.63	
<i>For >500 To 1,000, Deduct</i>	-5.93	
<i>For >1,000, Deduct</i>	-10.01	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.34	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13	13-0027	LF	"A2-6" Concrete Curb And Gutter - Radius.....	55.25	20.95
			<i>For Up To 20, Add</i>	37.34	
			<i>For >20 To 50, Add</i>	20.77	
			<i>For >50 To 100, Add</i>	8.29	
			<i>For >500 To 1,000, Deduct</i>	-6.95	
			<i>For >1,000, Deduct</i>	-11.81	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.46	
32 16 13	13-0028	LF	"B-2" Concrete Curb And Gutter - Straight.....	53.07	20.37
			<i>For Up To 20, Add</i>	35.92	
			<i>For >20 To 50, Add</i>	20.00	
			<i>For >50 To 100, Add</i>	7.96	
			<i>For >500 To 1,000, Deduct</i>	-6.73	
			<i>For >1,000, Deduct</i>	-11.42	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.40	
32 16 13	13-0029	LF	"B-2" Concrete Curb And Gutter - Radius.....	54.67	20.37
			<i>For Up To 20, Add</i>	36.88	
			<i>For >20 To 50, Add</i>	20.48	
			<i>For >50 To 100, Add</i>	8.20	
			<i>For >500 To 1,000, Deduct</i>	-6.81	
			<i>For >1,000, Deduct</i>	-11.58	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.31	
32 16 13	13-0030	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	31.64	13.97
			<i>For Up To 20, Add</i>	21.43	
			<i>For >20 To 50, Add</i>	11.94	
			<i>For >50 To 100, Add</i>	4.75	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-6.83	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.05	
32 16 13	13-0031	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	34.38	18.63
			<i>For Up To 20, Add</i>	23.31	
			<i>For >20 To 50, Add</i>	12.99	
			<i>For >50 To 100, Add</i>	5.16	
			<i>For >500 To 1,000, Deduct</i>	-4.40	
			<i>For >1,000, Deduct</i>	-7.46	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.26	
32 16 13	13-0032	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	39.72	15.48
			<i>For Up To 20, Add</i>	26.92	
			<i>For >20 To 50, Add</i>	15.00	
			<i>For >50 To 100, Add</i>	5.96	
			<i>For >500 To 1,000, Deduct</i>	-5.07	
			<i>For >1,000, Deduct</i>	-8.60	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.60	
32 16 13	13-0033	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	43.75	17.23
			<i>For Up To 20, Add</i>	29.68	
			<i>For >20 To 50, Add</i>	16.56	
			<i>For >50 To 100, Add</i>	6.56	
			<i>For >500 To 1,000, Deduct</i>	-5.62	
			<i>For >1,000, Deduct</i>	-9.53	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.92	
32 16 13	13-0034	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	47.79	18.63
			<i>For Up To 20, Add</i>	32.40	
			<i>For >20 To 50, Add</i>	18.06	
			<i>For >50 To 100, Add</i>	7.17	
			<i>For >500 To 1,000, Deduct</i>	-6.11	
			<i>For >1,000, Deduct</i>	-10.37	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.14	
32 16 13	13-0035	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6).....	53.12	20.95
			<i>For Up To 20, Add</i>	36.06	
			<i>For >20 To 50, Add</i>	20.13	
			<i>For >50 To 100, Add</i>	7.97	
			<i>For >500 To 1,000, Deduct</i>	-6.85	
			<i>For >1,000, Deduct</i>	-11.60	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.57	
32 16 13	13-0036	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	56.46	22.11
			<i>For Up To 20, Add</i>	38.30	
			<i>For >20 To 50, Add</i>	21.36	
			<i>For >50 To 100, Add</i>	8.47	
			<i>For >500 To 1,000, Deduct</i>	-7.25	
			<i>For >1,000, Deduct</i>	-12.28	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.75	
32 16 13	13-0037	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	61.93	24.45
			<i>For Up To 20, Add</i>	42.05	
			<i>For >20 To 50, Add</i>	23.47	
			<i>For >50 To 100, Add</i>	9.29	
			<i>For >500 To 1,000, Deduct</i>	-7.99	
			<i>For >1,000, Deduct</i>	-13.53	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.17	
32 16 13	13-0038	LF	6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	65.13	25.61
			<i>For Up To 20, Add</i>	44.20	
			<i>For >20 To 50, Add</i>	24.66	
			<i>For >50 To 100, Add</i>	9.77	
			<i>For >500 To 1,000, Deduct</i>	-8.38	
			<i>For >1,000, Deduct</i>	-14.20	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0039 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	70.73	27.93
<i>For Up To 20, Add</i>	48.03	
<i>For >20 To 50, Add</i>	26.81	
<i>For >50 To 100, Add</i>	10.61	
<i>For >500 To 1,000, Deduct</i>	-9.12	
<i>For >1,000, Deduct</i>	-15.46	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.77	
32 16 13 13-0040 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	73.80	29.10
<i>For Up To 20, Add</i>	50.10	
<i>For >20 To 50, Add</i>	27.96	
<i>For >50 To 100, Add</i>	11.07	
<i>For >500 To 1,000, Deduct</i>	-9.51	
<i>For >1,000, Deduct</i>	-16.11	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.96	
32 16 13 13-0041 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	81.85	32.59
<i>For Up To 20, Add</i>	55.63	
<i>For >20 To 50, Add</i>	31.07	
<i>For >50 To 100, Add</i>	12.28	
<i>For >500 To 1,000, Deduct</i>	-10.61	
<i>For >1,000, Deduct</i>	-17.96	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	5.60	
32 16 13 14 Machine Formed, Slip Form Curbs <small>(32 16 13)</small>		
<i>Note: Includes delivered concrete, steel, expansion joints and finish.</i>		
32 16 13 14-0001 Curbs, Machine Formed, Slip Form <small>(32 16 13 14)</small>		
<i>Note: Includes delivered concrete, steel, expansion joints and finish.</i>		
32 16 13 14-0002 EA Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job)	1,563.23	
<i>Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.</i>		
32 16 13 14-0003 LF 6" x 12" Straight Concrete Curb, Machine Formed	12.82	
32 16 13 14-0004 LF 6" x 12" Curved Concrete Curb, Machine Formed	17.54	
32 16 13 14-0005 LF 6" x 18" Straight Concrete Curb, Machine Formed	16.91	
32 16 13 14-0006 LF 6" x 18" Curved Concrete Curb, Machine Formed	22.50	
32 16 13 16 Steel Faced Curbs <small>(32 16 13)</small>		
<i>Note: Fabrication includes handicap and other curb access cuts.</i>		
32 16 13 16-0001 Sidewalk/Curb Facing <small>(32 16 13 16)</small>		
<i>Note: Fabrication includes handicap and other curb access cuts.</i>		
32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	16.85	5.48
<i>For Curved Section, Add</i>	3.73	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	18.56	6.23
<i>For Curved Section, Add</i>	4.20	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	24.93	6.98
<i>For Curved Section, Add</i>	5.13	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	30.54	7.86
<i>For Curved Section, Add</i>	5.98	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	37.29	8.60
<i>For Curved Section, Add</i>	6.95	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	48.74	10.97
<i>For Curved Section, Add</i>	8.97	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	56.30	14.22
<i>For Curved Section, Add</i>	10.94	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	175.03	
32 16 13 16-0010 EA Pedestrian/Handicap Ramp, Complete	150.47	
32 16 13 19 Cast-In-Place Concrete Drainage Ditches <small>(32 16 13)</small>		
<i>Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.</i>		
32 16 13 19-0001 Valley Gutter, Cast In Place <small>(32 16 13 19)</small>		
<i>Note: Includes concrete, forms, rebar, expansion joints, finish and curing.</i>		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	23.00	
<i>For Up To 20, Add</i>	10.79	
<i>For >20 To 50, Add</i>	6.01	
<i>For >50 To 100, Add</i>	2.39	
<i>For >500 To 1,000, Deduct</i>	-2.39	
<i>For >1,000, Deduct</i>	-4.16	
32 16 13 19-0003 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	28.19	
<i>For Up To 20, Add</i>	13.09	
<i>For >20 To 50, Add</i>	7.29	
<i>For >50 To 100, Add</i>	2.90	
<i>For >500 To 1,000, Deduct</i>	-2.90	
<i>For >1,000, Deduct</i>	-5.06	
32 16 13 19-0004 LF 3' Wide Cast In Place Concrete Valley Gutter, 6" Thick	33.31	
<i>For Up To 20, Add</i>	15.35	
<i>For >20 To 50, Add</i>	8.54	
<i>For >50 To 100, Add</i>	3.40	
<i>For >500 To 1,000, Deduct</i>	-3.40	
<i>For >1,000, Deduct</i>	-5.94	

32 Exterior Improvements

32 10 Bases, Ballasts, and Paving

32 16 Curbs, Gutters, Sidewalks, and Driveways



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 16 13 19-0005	LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.40	
	For Up To 20, Add	17.59	
	For >20 To 50, Add	9.78	
	For >50 To 100, Add	3.90	
	For >500 To 1,000, Deduct	-3.90	
	For >1,000, Deduct	-6.81	
32 16 13 19-0006	LF 4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	43.52	
	For Up To 20, Add	19.84	
	For >20 To 50, Add	11.03	
	For >50 To 100, Add	4.40	
	For >500 To 1,000, Deduct	-4.40	
	For >1,000, Deduct	-7.69	
32 16 13 19-0007	LF 5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	51.61	
	For Up To 20, Add	22.85	
	For >20 To 50, Add	12.68	
	For >50 To 100, Add	5.09	
	For >500 To 1,000, Deduct	-5.09	
	For >1,000, Deduct	-8.92	
32 16 13 19-0008	LF 6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	59.38	
	For Up To 20, Add	25.63	
	For >20 To 50, Add	14.19	
	For >50 To 100, Add	5.72	
	For >500 To 1,000, Deduct	-5.72	
	For >1,000, Deduct	-10.06	
32 16 13 19-0009	SF >6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	9.90	
	For Up To 100, Add	4.28	
	For >100 To 250, Add	2.37	
	For >250 To 500, Add	0.95	
	For >2,500 To 5,000, Deduct	-0.95	
	For >5,000, Deduct	-1.68	
32 16 13 19-0010	LF 2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	25.27	
	For Up To 20, Add	11.58	
	For >20 To 50, Add	6.44	
	For >50 To 100, Add	2.57	
	For >500 To 1,000, Deduct	-2.57	
	For >1,000, Deduct	-4.48	
32 16 13 19-0011	LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	31.19	
	For Up To 20, Add	14.19	
	For >20 To 50, Add	7.89	
	For >50 To 100, Add	3.15	
	For >500 To 1,000, Deduct	-3.15	
	For >1,000, Deduct	-5.51	
32 16 13 19-0012	LF 3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	36.66	
	For Up To 20, Add	16.49	
	For >20 To 50, Add	9.16	
	For >50 To 100, Add	3.67	
	For >500 To 1,000, Deduct	-3.67	
	For >1,000, Deduct	-6.41	
32 16 13 19-0013	LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	42.30	
	For Up To 20, Add	18.92	
	For >20 To 50, Add	10.50	
	For >50 To 100, Add	4.21	
	For >500 To 1,000, Deduct	-4.21	
	For >1,000, Deduct	-7.37	
32 16 13 19-0014	LF 4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	47.96	
	For Up To 20, Add	21.35	
	For >20 To 50, Add	11.85	
	For >50 To 100, Add	4.75	
	For >500 To 1,000, Deduct	-4.75	
	For >1,000, Deduct	-8.32	
32 16 13 19-0015	LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	57.00	
	For Up To 20, Add	24.62	
	For >20 To 50, Add	13.63	
	For >50 To 100, Add	5.49	
	For >500 To 1,000, Deduct	-5.49	
	For >1,000, Deduct	-9.67	
32 16 13 19-0016	LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	65.71	
	For Up To 20, Add	27.66	
	For >20 To 50, Add	15.28	
	For >50 To 100, Add	6.19	
	For >500 To 1,000, Deduct	-6.19	
	For >1,000, Deduct	-10.93	
32 16 13 19-0017	SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	10.95	
	For Up To 100, Add	4.61	
	For >100 To 250, Add	2.55	
	For >250 To 500, Add	1.03	
	For >2,500 To 5,000, Deduct	-1.03	
	For >5,000, Deduct	-1.82	
32 16 13 19-0018	LF 2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	25.47	
	For Up To 20, Add	11.96	
	For >20 To 50, Add	6.67	
	For >50 To 100, Add	2.65	
	For >500 To 1,000, Deduct	-2.65	
	For >1,000, Deduct	-4.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0019 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	31.22	
<i>For Up To 20, Add</i>	14.52	
<i>For >20 To 50, Add</i>	8.09	
<i>For >50 To 100, Add</i>	3.22	
<i>For >500 To 1,000, Deduct</i>	-3.22	
<i>For >1,000, Deduct</i>	-5.60	
32 16 13 19-0020 LF 3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	36.89	
<i>For Up To 20, Add</i>	17.02	
<i>For >20 To 50, Add</i>	9.47	
<i>For >50 To 100, Add</i>	3.77	
<i>For >500 To 1,000, Deduct</i>	-3.77	
<i>For >1,000, Deduct</i>	-6.58	
32 16 13 19-0021 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	42.56	
<i>For Up To 20, Add</i>	19.52	
<i>For >20 To 50, Add</i>	10.86	
<i>For >50 To 100, Add</i>	4.33	
<i>For >500 To 1,000, Deduct</i>	-4.33	
<i>For >1,000, Deduct</i>	-7.56	
32 16 13 19-0022 LF 4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	48.22	
<i>For Up To 20, Add</i>	22.01	
<i>For >20 To 50, Add</i>	12.24	
<i>For >50 To 100, Add</i>	4.89	
<i>For >500 To 1,000, Deduct</i>	-4.89	
<i>For >1,000, Deduct</i>	-8.53	
32 16 13 19-0023 LF 5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	57.19	
32 16 13 19-0024 LF 6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	65.79	
32 16 13 19-0025 SF >6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	10.97	
<i>For Up To 100, Add</i>	4.74	
<i>For >100 To 250, Add</i>	2.63	
<i>For >250 To 500, Add</i>	1.06	
<i>For >2,500 To 5,000, Deduct</i>	-1.06	
<i>For >5,000, Deduct</i>	-1.86	
32 16 13 19-0026 Gutter Intersections <small>(32 16 13 19)</small>		
<i>Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.</i>		
32 16 13 19-0027 EA Cast In Place Concrete Cross Gutter At T Section	1,145.64	
32 16 13 19-0028 EA 8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	1,384.77	
32 16 13 19-0029 EA 10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	2,163.70	
32 16 13 19-0030 EA 15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	4,868.33	
32 16 13 19-0031 EA 20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	8,654.80	
32 16 13 19-0032 EA 25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	13,523.13	
32 16 13 19-0033 EA 30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	19,473.31	
32 16 13 19-0034 Driveway Approach, Cast In Place <small>(32 16 13 19)</small>		
<i>Note: Includes concrete, forms, rebar, expansion joints, finish and curing.</i>		
32 16 13 19-0035 SF 4 Cast In Place Concrete Driveway Approach.....	14.54	
<i>For Up To 100, Add</i>	6.52	
<i>For >100 To 500, Add</i>	1.88	
<i>For >1,000 To 5,000, Deduct</i>	-1.16	
<i>For >5,000, Deduct</i>	-2.46	
32 16 13 19-0036 SF 6" Cast In Place Concrete Driveway Approach.....	19.86	
<i>For Up To 100, Add</i>	8.90	
<i>For >100 To 500, Add</i>	2.57	
<i>For >1,000 To 5,000, Deduct</i>	-1.58	
<i>For >5,000, Deduct</i>	-3.36	
32 16 13 23 Precast Concrete Curbs and Gutters <small>(32 16 13)</small>		
32 16 13 23-0001 Precast Concrete Curb <small>(32 16 13 23)</small>		
32 16 13 23-0002 LF 6" x 18" Precast Concrete Curb.....	43.59	10.50
32 16 13 23-0003 LF 6" x 18" Precast Concrete Curb, Radius	51.96	12.07
32 16 13 23-0004 LF 6" x 20" Precast Concrete Curb.....	46.17	10.50
32 16 13 23-0005 LF 6" x 20" Precast Concrete Curb, Radius.....	55.37	12.07
32 16 13 23-0006 LF 7" x 18" Precast Concrete Curb.....	47.35	10.50
32 16 13 23-0007 LF 7" x 18" Precast Concrete Curb, Radius	56.73	12.07
32 16 13 23-0008 LF 7" x 20" Precast Concrete Curb.....	50.28	10.50
32 16 13 23-0009 LF 7" x 20" Precast Concrete Curb, Radius.....	60.45	12.07
32 16 13 33 Asphalt Curbs <small>(32 16 13)</small>		
32 16 13 33-0001 Asphalt Curbs <small>(32 16 13 33)</small>		
32 16 13 33-0002 LF 6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	13.42	5.61
32 16 13 33-0003 LF 8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	15.09	6.23
32 16 13 33-0004 LF 8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	16.64	6.86
32 16 13 43 Stone Curbs <small>(32 16 13)</small>		
32 16 13 43-0001 Remove And Reset Stone And Precast Curbing <small>(32 16 13 43)</small>		
<i>Note: Includes storage and cleaning.</i>		

32 Exterior Improvements
32 10 Bases, Ballasts, and Paving
32 16 Curbs, Gutters, Sidewalks, and Driveways



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

32 16 13 43-0002 LF Removal And Reseting Of Stone Or Precast Curbing38.51
 Note: Includes storage and cleaning.

32 16 23 Sidewalks (32 16)

32 16 23 00-0001 Cast In Place Concrete Sidewalk Assemblies (32 16 23)

Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	9.30
		<i>For Up To 100, Add</i>	4.02
		<i>For >100 To 500, Add</i>	1.14
		<i>For 3,500 PSI Concrete, Add</i>	0.12
		<i>For 4,000 PSI Concrete, Add</i>	0.20
		<i>For 4,500 PSI Concrete, Add</i>	0.23
		<i>For Welded Wire Reinforcement, Add</i>	0.90
		<i>For >1,000 To 5,000, Deduct</i>	-0.68
		<i>For >5,000, Deduct</i>	-1.48
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	10.11
		<i>For Up To 100, Add</i>	4.29
		<i>For >100 To 500, Add</i>	1.21
		<i>For 3,500 PSI Concrete, Add</i>	0.14
		<i>For 4,000 PSI Concrete, Add</i>	0.25
		<i>For 4,500 PSI Concrete, Add</i>	0.29
		<i>For Welded Wire Reinforcement, Add</i>	0.90
		<i>For >1,000 To 5,000, Deduct</i>	-0.70
		<i>For >5,000, Deduct</i>	-1.56
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	10.94
		<i>For Up To 100, Add</i>	4.56
		<i>For >100 To 500, Add</i>	1.28
		<i>For 3,500 PSI Concrete, Add</i>	0.17
		<i>For 4,000 PSI Concrete, Add</i>	0.29
		<i>For 4,500 PSI Concrete, Add</i>	0.34
		<i>For Welded Wire Reinforcement, Add</i>	0.90
		<i>For >1,000 To 5,000, Deduct</i>	-0.73
		<i>For >5,000, Deduct</i>	-1.64
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	12.69
		<i>For Up To 100, Add</i>	5.24
		<i>For >100 To 500, Add</i>	1.46
		<i>For 3,500 PSI Concrete, Add</i>	0.20
		<i>For 4,000 PSI Concrete, Add</i>	0.36
		<i>For 4,500 PSI Concrete, Add</i>	0.41
		<i>For Welded Wire Reinforcement, Add</i>	0.90
		<i>For >1,000 To 5,000, Deduct</i>	-0.83
		<i>For >5,000, Deduct</i>	-1.87
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	13.40
		<i>For Up To 100, Add</i>	5.45
		<i>For >100 To 500, Add</i>	1.51
		<i>For 3,500 PSI Concrete, Add</i>	0.23
		<i>For 4,000 PSI Concrete, Add</i>	0.40
		<i>For 4,500 PSI Concrete, Add</i>	0.47
		<i>For Welded Wire Reinforcement, Add</i>	0.90
		<i>For >1,000 To 5,000, Deduct</i>	-0.84
		<i>For >5,000, Deduct</i>	-1.93
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.63
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk.....	157.46
		Note: Excludes patterned (tactile) finish.	
32 16 23 00-0009	LF	For Hand Trowel Finish At Sidewalk Edges (Picture Frame).....	2.63

32 16 23 00-0010 Bituminous Sidewalk Assemblies (32 16 23)

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0011	SY	1" Bituminous Sidewalk	9.39
		<i>For Up To 100, Add</i>	3.57
		<i>For >100 To 500, Add</i>	0.96
		<i>For >1,000 To 5,000, Deduct</i>	-0.49
		<i>For >5,000, Deduct</i>	-0.96
32 16 23 00-0012	SY	1-1/2" Bituminous Sidewalk	11.76
		<i>For Up To 100, Add</i>	4.41
		<i>For >100 To 500, Add</i>	1.18
		<i>For >1,000 To 5,000, Deduct</i>	-0.59
		<i>For >5,000, Deduct</i>	-1.18
32 16 23 00-0013	SY	2" Bituminous Sidewalk	16.26
		<i>For Up To 100, Add</i>	5.89
		<i>For >100 To 500, Add</i>	1.54
		<i>For >1,000 To 5,000, Deduct</i>	-0.73
		<i>For >5,000, Deduct</i>	-1.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0014 SY 2-1/2" Bituminous Sidewalk	20.30	
For Up To 100, Add	7.34	
For >100 To 500, Add	1.92	
For >1,000 To 5,000, Deduct	-0.90	
For >5,000, Deduct	-1.92	
32 16 23 00-0015 SY 3" Bituminous Sidewalk	23.32	
For Up To 100, Add	8.28	
For >100 To 500, Add	2.15	
For >1,000 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-2.15	
32 16 23 00-0016 SY 3-1/2" Bituminous Sidewalk	26.90	
For Up To 100, Add	9.42	
For >100 To 500, Add	2.42	
For >1,000 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-2.42	
32 16 43 Asphalt Dike (32 16)		
32 16 43 00-0001 Asphalt Dike (32 16 43)		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	7.00	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	9.56	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.56	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	13.62	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	16.11	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.77	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.89	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.28	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	7.00	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.77	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.28	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.89	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	5.51	
32 17 Paving Specialties (32 10)		
32 17 13 Parking Bumpers (32 17)		
Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers (32 17 13)		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop	216.03	7.49
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop	245.10	7.49
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	72.00	22.55
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	82.54	22.55
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	85.67	22.55
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	89.74	22.55
32 17 13 19-0005 EA 4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels.....	83.69	22.55
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	106.14	22.55
32 17 13 19-0007 EA 8" x 12" x 8' Precast Concrete Wheel Stop	117.06	24.35
32 17 13 19-0008 EA Removal And Relocation Of Precast Concrete Wheel Stop	36.08	
32 17 13 19-0009 EA Removal And Relocation Of Plastic Or Wood Wheel Stop	23.45	
32 17 13 19-0010 EA 7.625" x 7.625" x 6' Precast Concrete Wheel Stop.....	123.35	22.55
32 17 13 19-0011 EA 7.625" x 7.625" x 8' Precast Concrete Wheel Stop.....	183.54	22.55
32 17 13 23 Rubber Parking Bumpers (32 17 13)		
32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop	29.55	7.49
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop	34.07	7.49
32 17 13 23-0003 EA 5' Recycled Rubber Wheel Stop	35.88	7.49
32 17 13 23-0004 EA 6' Recycled Rubber Wheel Stop	38.59	7.49
32 17 13 26 Wood Parking Bumpers (32 17 13)		
32 17 13 26-0001 LF 4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	9.65	1.80
32 17 13 26-0002 LF 6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated.....	12.12	1.80
32 17 16 Manufactured Traffic-Calming Devices (32 17)		
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)		
Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.		
32 17 16 00-0002 SF Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	69.34	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003 SF Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	60.56	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0004 SF Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	56.83	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005 SF >24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	66.34	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006 SF >24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	58.32	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0007 SF >24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	55.03	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008 SF >30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	63.36	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009 SF >30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	56.58	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010 SF >30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	53.52	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011 Asphalt Speed Table <small>(32 17 16)</small>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0012 LF Up to 36" Run, Asphalt Speed Table With 3" Center Crown.....	38.04	
Note: Tapered on edges to roadway.		
32 17 16 00-0013 LF >36" To 48" Run, Asphalt Speed Table With 3" Center Crown.....	44.84	
Note: Tapered on edges to roadway.		
32 17 16 00-0014 LF Up to 36" Run, Asphalt Speed Table With 4" Center Crown.....	47.79	
Note: Tapered on edges to roadway.		
32 17 16 00-0015 LF >36" To 48" Run, Asphalt Speed Table With 4" Center Crown.....	56.36	
Note: Tapered on edges to roadway.		
32 17 16 00-0016 LF Up to 36" Run, Asphalt Speed Table With 6" Center Crown.....	58.62	
Note: Tapered on edges to roadway.		
32 17 16 00-0017 LF >36" To 48" Run, Asphalt Speed Table With 6" Center Crown.....	65.42	
Note: Tapered on edges to roadway.		
32 17 16 00-0018 Speed Bumps <small>(32 17 16)</small>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0019 LF 2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump.....	35.45	1.91
32 17 16 00-0020 LF 2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	28.12	1.27
32 17 16 00-0021 LF 2-5/8" High x 12" Wide, Recycled Plastic Speed Bump.....	198.49	1.27
32 17 23 Pavement Markings <small>(32 17)</small>		
32 17 23 13 Painted Pavement Markings <small>(32 17 23)</small>		
32 17 23 13-0001 Minimum Charge For Pavement Striping <small>(32 17 23 13)</small>		
32 17 23 13-0002 EA Pavement Striping Minimum Charge.....	425.34	
32 17 23 13-0003 Striping, Letters, Symbols And Markers for Roads And Airports <small>(32 17 23 13)</small>		
Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
32 17 23 13-0004 Epoxy Reflective Pavement Marking <small>(32 17 23 13-0003)</small>		
Note: 15 mil thickness.		
32 17 23 13-0005 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.83	
For 20 Mil Thickness, Add	0.21	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.12	
For Broken Line (25% Solid), Deduct	-0.44	
32 17 23 13-0006 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.17	
For 20 Mil Thickness, Add	0.30	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.18	
For Broken Line (25% Solid), Deduct	-0.65	
32 17 23 13-0007 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.43	
For 20 Mil Thickness, Add	0.37	
For Up To 5,000 LF, Add	0.29	
For >25,000 LF, Deduct	-0.21	
For Broken Line (25% Solid), Deduct	-0.78	
32 17 23 13-0008 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	2.20	
For 20 Mil Thickness, Add	0.59	
For Up To 5,000 LF, Add	0.44	
For >25,000 LF, Deduct	-0.33	
For Broken Line (25% Solid), Deduct	-1.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0009 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.39	
<i>For 20 Mil Thickness, Add</i>	0.39	
<i>For Up To 5,000 LF, Add</i>	0.28	
<i>For >25,000 LF, Deduct</i>	-0.21	
<i>For Broken Line On One Side, Deduct</i>	-0.43	
<i>For Double Broken Line, Deduct</i>	-0.86	
32 17 23 13-0010 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	2.00	
<i>For 20 Mil Thickness, Add</i>	0.58	
<i>For Up To 5,000 LF, Add</i>	0.40	
<i>For >25,000 LF, Deduct</i>	-0.30	
<i>For Broken Line On One Side, Deduct</i>	-0.64	
<i>For Double Broken Line, Deduct</i>	-1.28	
32 17 23 13-0011 SF Solid Area, Epoxy Reflective Pavement Marking.....	9.45	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
<i>For 20 Mil Thickness, Add</i>	1.34	
32 17 23 13-0012 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	5.59	
<i>For 20 Mil Thickness, Add</i>	0.63	
<i>For <10, Add</i>	0.65	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100 To 200, Deduct</i>	-0.44	
<i>For >200, Deduct</i>	-0.87	
32 17 23 13-0013 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	11.02	
<i>For 20 Mil Thickness, Add</i>	1.81	
<i>For <10, Add</i>	0.99	
<i>For >50 To 100, Deduct</i>	-0.49	
<i>For >100 To 200, Deduct</i>	-0.66	
<i>For >200, Deduct</i>	-1.32	
32 17 23 13-0014 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	18.71	
<i>For 20 Mil Thickness, Add</i>	3.13	
<i>For <10, Add</i>	1.64	
<i>For >50 To 100, Deduct</i>	-0.82	
<i>For >100 To 200, Deduct</i>	-1.10	
<i>For >200, Deduct</i>	-2.19	
32 17 23 13-0015 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	35.55	
<i>For 20 Mil Thickness, Add</i>	5.64	
<i>For <10, Add</i>	3.29	
<i>For >50 To 100, Deduct</i>	-1.64	
<i>For >100 To 200, Deduct</i>	-2.19	
<i>For >200, Deduct</i>	-4.38	
32 17 23 13-0016 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	42.30	
<i>For 20 Mil Thickness, Add</i>	7.14	
<i>For <10, Add</i>	3.68	
<i>For >50 To 100, Deduct</i>	-1.84	
<i>For >100 To 200, Deduct</i>	-2.46	
<i>For >200, Deduct</i>	-4.91	
32 17 23 13-0017 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	76.10	
<i>For 20 Mil Thickness, Add</i>	12.99	
<i>For <10, Add</i>	6.55	
<i>For >50 To 100, Deduct</i>	-3.28	
<i>For >100 To 200, Deduct</i>	-4.37	
<i>For >200, Deduct</i>	-8.74	
32 17 23 13-0018 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	101.31	
<i>For 20 Mil Thickness, Add</i>	17.15	
<i>For <10, Add</i>	8.80	
<i>For >50 To 100, Deduct</i>	-4.40	
<i>For >100 To 200, Deduct</i>	-5.87	
<i>For >200, Deduct</i>	-11.73	
32 17 23 13-0019 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	167.89	
<i>For 20 Mil Thickness, Add</i>	35.36	
<i>For <10, Add</i>	10.91	
<i>For >50 To 100, Deduct</i>	-5.45	
<i>For >100 To 200, Deduct</i>	-7.27	
<i>For >200, Deduct</i>	-14.54	
32 17 23 13-0020 SF Letter/Number, Epoxy Reflective Pavement Marking	9.66	
<i>For 20 Mil Thickness, Add</i>	1.35	
32 17 23 13-0021 SF Symbols, Epoxy Reflective Pavement Marking.....	11.89	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0022 Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0003)		
Note: 15 mil thickness.		
32 17 23 13-0023 LF Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.34	
Note: Includes solvent based and latex paints.		
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
<i>For Broken Line (25% Solid), Deduct</i>	-0.07	
32 17 23 13-0024 LF Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.43	
Note: Includes solvent based and latex paints.		
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.06	
<i>For Broken Line (25% Solid), Deduct</i>	-0.10	
32 17 23 13-0025 LF Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.55	
Note: Includes solvent based and latex paints.		
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For >25,000 LF, Deduct</i>	-0.08	
<i>For Broken Line (25% Solid), Deduct</i>	-0.12	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0026	LF	Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.74	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line (25% Solid), Deduct	-0.18	
32 17 23	13-0027	LF	Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.50	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.06	
			For Double Broken Line, Deduct	-0.12	
32 17 23	13-0028	LF	Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.74	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line On One Side, Deduct	-0.09	
			For Double Broken Line, Deduct	-0.18	
32 17 23	13-0029	SF	Solid Area, Painted Reflective Pavement Striping.....	6.62	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23	13-0030	EA	6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	5.00	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.65	
			For >50 To 100, Deduct	-0.33	
			For >100 To 200, Deduct	-0.44	
			For >200, Deduct	-0.87	
32 17 23	13-0031	EA	12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	8.91	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.99	
			For >50 To 100, Deduct	-0.49	
			For >100 To 200, Deduct	-0.66	
			For >200, Deduct	-1.32	
32 17 23	13-0032	EA	24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	15.02	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.64	
			For >50 To 100, Deduct	-0.82	
			For >100 To 200, Deduct	-1.10	
			For >200, Deduct	-2.19	
32 17 23	13-0033	EA	36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	29.05	
			Note: Includes solvent based and latex paints.		
			For <10, Add	3.29	
			For >50 To 100, Deduct	-1.64	
			For >100 To 200, Deduct	-2.19	
			For >200, Deduct	-4.38	
32 17 23	13-0034	EA	48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	33.86	
			Note: Includes solvent based and latex paints.		
			For <10, Add	3.68	
			For >50 To 100, Deduct	-1.84	
			For >100 To 200, Deduct	-2.46	
			For >200, Deduct	-4.91	
32 17 23	13-0035	EA	72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	60.68	
			Note: Includes solvent based and latex paints.		
			For <10, Add	6.55	
			For >50 To 100, Deduct	-3.28	
			For >100 To 200, Deduct	-4.37	
			For >200, Deduct	-8.74	
32 17 23	13-0036	EA	96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	81.03	
			Note: Includes solvent based and latex paints.		
			For <10, Add	8.80	
			For >50 To 100, Deduct	-4.40	
			For >100 To 200, Deduct	-5.87	
			For >200, Deduct	-11.73	
32 17 23	13-0037	EA	120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	122.61	
			Note: Includes solvent based and latex paints.		
			For <10, Add	10.91	
			For >50 To 100, Deduct	-5.45	
			For >100 To 200, Deduct	-7.27	
			For >200, Deduct	-14.54	
32 17 23	13-0038	SF	Letter/Number, Painted Reflective Pavement Marking.....	8.20	
			Note: Includes solvent based and latex paints.		
32 17 23	13-0039	SF	Symbols, Painted Reflective Pavement Marking.....	9.69	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
32 17 23	13-0040		Painted Reflective Pavement Marking (CALTRANS) (32 17 23 13)		
			Note: Per LF of detail.		
32 17 23	13-0041	LF	CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping.....	0.28	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	
32 17 23	13-0042	LF	CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping.....	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23	13-0043	LF	CALTRANS Detail 4 Centerline.....	1.05	
			For Up To 5,000 LF, Add	0.21	
			For >25,000 LF, Deduct	-0.16	
32 17 23	13-0044	LF	CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0045 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.46	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0046 LF CALTRANS Detail 7 Centerline	0.76	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0047 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.28	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0048 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.45	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0049 LF CALTRANS Detail 10 Lanelines	1.05	
<i>For Up To 5,000 LF, Add</i>	0.21	
<i>For >25,000 LF, Deduct</i>	-0.16	
32 17 23 13-0050 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.27	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0051 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.45	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0052 LF CALTRANS Detail 13 Lanelines	0.76	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0053 LF CALTRANS Detail 14 Lanelines	0.76	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0054 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.45	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
32 17 23 13-0055 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.37	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.06	
<i>For Broken Line On One Side, Deduct</i>	-0.05	
<i>For Double Broken Line, Deduct</i>	-0.09	
32 17 23 13-0056 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.08	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.16	
32 17 23 13-0057 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	3.04	
<i>For Up To 5,000 LF, Add</i>	0.61	
<i>For >25,000 LF, Deduct</i>	-0.46	
32 17 23 13-0058 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.37	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.06	
<i>For Broken Line On One Side, Deduct</i>	-0.05	
<i>For Double Broken Line, Deduct</i>	-0.09	
32 17 23 13-0059 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.90	
<i>For Up To 5,000 LF, Add</i>	0.18	
<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0060 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	2.58	
<i>For Up To 5,000 LF, Add</i>	0.52	
<i>For >25,000 LF, Deduct</i>	-0.39	
32 17 23 13-0061 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.44	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For >25,000 LF, Deduct</i>	-0.07	
<i>For Broken Line On One Side, Deduct</i>	-0.07	
<i>For Double Broken Line, Deduct</i>	-0.14	
32 17 23 13-0062 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	1.15	
<i>For Up To 5,000 LF, Add</i>	0.23	
<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0063 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	3.63	
<i>For Up To 5,000 LF, Add</i>	0.73	
<i>For >25,000 LF, Deduct</i>	-0.54	
32 17 23 13-0064 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.35	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0065 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.52	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23 13-0066 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.70	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0067 LF CALTRANS Detail 26 Left Edgelines	0.18	
<i>For Up To 5,000 LF, Add</i>	0.04	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0068 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.62	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0069 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.35	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0070 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.27	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0071	LF	CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.88	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.13	
			<i>For Broken Line On One Side, Deduct</i>	-0.14	
			<i>For Double Broken Line, Deduct</i>	-0.29	
32 17 23	13-0072	LF	CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	1.59	
			<i>For Up To 5,000 LF, Add</i>	0.32	
			<i>For >25,000 LF, Deduct</i>	-0.24	
32 17 23	13-0073	LF	CALTRANS Detail 30 Median Islands	7.26	
			<i>For Up To 5,000 LF, Add</i>	1.45	
			<i>For >25,000 LF, Deduct</i>	-1.09	
32 17 23	13-0074	LF	CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.74	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
			<i>For Broken Line On One Side, Deduct</i>	-0.09	
			<i>For Double Broken Line, Deduct</i>	-0.18	
32 17 23	13-0075	LF	CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.62	
			<i>For Up To 5,000 LF, Add</i>	0.32	
			<i>For >25,000 LF, Deduct</i>	-0.24	
32 17 23	13-0076	LF	CALTRANS Detail 33 Two-Way Left Turn Lanes	4.98	
			<i>For Up To 5,000 LF, Add</i>	1.00	
			<i>For >25,000 LF, Deduct</i>	-0.75	
32 17 23	13-0077	LF	CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.90	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23	13-0078	LF	CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.37	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0079	LF	CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping.....	1.08	
			<i>For Up To 5,000 LF, Add</i>	0.22	
			<i>For >25,000 LF, Deduct</i>	-0.16	
32 17 23	13-0080	LF	CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.37	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0081	LF	CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.81	
			<i>For Up To 5,000 LF, Add</i>	0.36	
			<i>For >25,000 LF, Deduct</i>	-0.27	
32 17 23	13-0082	LF	CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	1.15	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23	13-0083	LF	CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.24	
			<i>For Up To 5,000 LF, Add</i>	0.25	
			<i>For >25,000 LF, Deduct</i>	-0.19	
32 17 23	13-0084	LF	CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	1.14	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23	13-0085	LF	CALTRANS Detail 37A Lane Drop At Exit Ramps.....	2.44	
			<i>For Up To 5,000 LF, Add</i>	0.49	
			<i>For >25,000 LF, Deduct</i>	-0.37	
32 17 23	13-0086	LF	CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping.....	1.14	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23	13-0087	LF	CALTRANS Detail 37C Lane Drop At Intersections.....	2.44	
			<i>For Up To 5,000 LF, Add</i>	0.49	
			<i>For >25,000 LF, Deduct</i>	-0.37	
32 17 23	13-0088	LF	CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	1.05	
			<i>For Up To 5,000 LF, Add</i>	0.21	
			<i>For >25,000 LF, Deduct</i>	-0.16	
32 17 23	13-0089	LF	CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.70	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23	13-0090	LF	CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	1.41	
			<i>For Up To 5,000 LF, Add</i>	0.28	
			<i>For >25,000 LF, Deduct</i>	-0.21	
32 17 23	13-0091	LF	CALTRANS Detail 38C Channelizing Line.....	3.63	
			<i>For Up To 5,000 LF, Add</i>	0.73	
			<i>For >25,000 LF, Deduct</i>	-0.54	
32 17 23	13-0092	LF	CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.42	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23	13-0093	LF	CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping.....	0.34	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23	13-0094	LF	CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.26	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0095	LF	CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.75	
			<i>For Up To 5,000 LF, Add</i>	0.35	
			<i>For >25,000 LF, Deduct</i>	-0.26	
32 17 23	13-0096	LF	CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.26	
			<i>For Up To 5,000 LF, Add</i>	0.05	
			<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23	13-0097	LF	CALTRANS Detail 41A Center Line Extensions Through Intersections.....	1.75	
			<i>For Up To 5,000 LF, Add</i>	0.35	
			<i>For >25,000 LF, Deduct</i>	-0.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0098 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	129.44	
For <10, Add	15.95	
For >50 To 100, Deduct	-7.97	
For >100 To 200, Deduct	-10.63	
For >200, Deduct	-21.26	
32 17 23 13-0099 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	227.34	
For <10, Add	27.90	
For >50 To 100, Deduct	-13.95	
For >100 To 200, Deduct	-18.60	
For >200, Deduct	-37.20	
32 17 23 13-0100 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	285.09	
For <10, Add	35.08	
For >50 To 100, Deduct	-17.54	
For >100 To 200, Deduct	-23.39	
For >200, Deduct	-46.77	
32 17 23 13-0101 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	414.54	
For <10, Add	51.02	
For >50 To 100, Deduct	-25.51	
For >100 To 200, Deduct	-34.02	
For >200, Deduct	-68.03	
32 17 23 13-0102 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	543.97	
For <10, Add	66.97	
For >50 To 100, Deduct	-33.48	
For >100 To 200, Deduct	-44.65	
For >200, Deduct	-89.29	
32 17 23 13-0103 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	383.00	
For <10, Add	47.04	
For >50 To 100, Deduct	-23.52	
For >100 To 200, Deduct	-31.36	
For >200, Deduct	-62.72	
32 17 23 13-0104 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	668.10	
For <10, Add	82.12	
For >50 To 100, Deduct	-41.06	
For >100 To 200, Deduct	-54.74	
For >200, Deduct	-109.49	
32 17 23 13-0105 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	136.40	
For <10, Add	16.74	
For >50 To 100, Deduct	-8.37	
For >100 To 200, Deduct	-11.16	
For >200, Deduct	-22.32	
32 17 23 13-0106 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking	299.04	
For <10, Add	36.67	
For >50 To 100, Deduct	-18.34	
For >100 To 200, Deduct	-24.45	
For >200, Deduct	-48.90	
32 17 23 13-0107 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking	383.00	
For <10, Add	47.04	
For >50 To 100, Deduct	-23.52	
For >100 To 200, Deduct	-31.36	
For >200, Deduct	-62.72	
32 17 23 13-0108 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	246.80	
For <10, Add	30.30	
For >50 To 100, Deduct	-15.15	
For >100 To 200, Deduct	-20.20	
For >200, Deduct	-40.39	
32 17 23 13-0109 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	325.25	
For <10, Add	39.86	
For >50 To 100, Deduct	-19.93	
For >100 To 200, Deduct	-26.58	
For >200, Deduct	-53.15	
32 17 23 13-0110 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	64.72	
For <10, Add	7.97	
For >50 To 100, Deduct	-3.99	
For >100 To 200, Deduct	-5.32	
For >200, Deduct	-10.63	
32 17 23 13-0111 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking	620.62	
Note: Excludes variable width transverse lines.		
For <10, Add	75.74	
For >50 To 100, Deduct	-37.87	
For >100 To 200, Deduct	-50.49	
For >200, Deduct	-100.98	
32 17 23 13-0112 SF CALTRANS Solid Area, Painted Reflective Pavement Marking	8.13	
32 17 23 13-0113 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking	67.60	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.74	
For >50 To 100, Deduct	-2.87	
For >100 To 200, Deduct	-3.83	
For >200, Deduct	-7.65	
32 17 23 13-0114 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking	71.77	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	6.06	
For >50 To 100, Deduct	-3.03	
For >100 To 200, Deduct	-4.04	
For >200, Deduct	-8.08	

32 Exterior Improvements

32 10 Bases, Ballasts, and Paving

32 17 Paving Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0115	EA	CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	103.22	
			<i>For <10, Add</i>	12.76	
			<i>For >50 To 100, Deduct</i>	-6.38	
			<i>For >100 To 200, Deduct</i>	-8.50	
			<i>For >200, Deduct</i>	-17.01	
32 17 23	13-0116	EA	CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	210.22	
			<i>For <10, Add</i>	25.83	
			<i>For >50 To 100, Deduct</i>	-12.92	
			<i>For >100 To 200, Deduct</i>	-17.22	
			<i>For >200, Deduct</i>	-34.44	
32 17 23	13-0117	EA	CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	43.61	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			<i>For <10, Add</i>	6.06	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100 To 200, Deduct</i>	-4.04	
			<i>For >200, Deduct</i>	-8.08	
32 17 23	13-0118	SF	CALTRANS Letter/Number, Painted Reflective Pavement Marking	8.24	
32 17 23	13-0119	SF	CALTRANS Symbols, Painted Reflective Pavement Marking	9.09	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0120 Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)					
			Note: Includes primers. Per Coat.		
32 17 23 13-0121 Painted Pavement Marking For Parking Areas (32 17 23 13-0120)					
			Note: 15 mil thickness.		
32 17 23	13-0122	LF	Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.27	
32 17 23	13-0123	LF	Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.38	
32 17 23	13-0124	LF	Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.47	
32 17 23	13-0125	LF	Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.65	
32 17 23	13-0126	SF	Solid Area, Painted Pavement Marking For Parking Areas.....	6.58	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23	13-0127	EA	6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.88	
			<i>For Up To 10, Add</i>	0.64	
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100 To 200, Deduct</i>	-0.43	
			<i>For >200, Deduct</i>	-0.85	
32 17 23	13-0128	EA	12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	8.65	
			<i>For Up To 10, Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.48	
			<i>For >100 To 200, Deduct</i>	-0.64	
			<i>For >200, Deduct</i>	-1.28	
32 17 23	13-0129	EA	24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	14.60	
			<i>For Up To 10, Add</i>	1.59	
			<i>For >50 To 100, Deduct</i>	-0.80	
			<i>For >100 To 200, Deduct</i>	-1.06	
			<i>For >200, Deduct</i>	-2.13	
32 17 23	13-0130	EA	36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	27.17	
			<i>For Up To 10, Add</i>	3.03	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100 To 200, Deduct</i>	-2.02	
			<i>For >200, Deduct</i>	-4.04	
32 17 23	13-0131	EA	42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	35.67	
			<i>For Up To 10, Add</i>	4.15	
			<i>For >50 To 100, Deduct</i>	-2.07	
			<i>For >100 To 200, Deduct</i>	-2.76	
			<i>For >200, Deduct</i>	-5.53	
32 17 23	13-0132	EA	48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	43.09	
			<i>For Up To 10, Add</i>	5.10	
			<i>For >50 To 100, Deduct</i>	-2.55	
			<i>For >100 To 200, Deduct</i>	-3.40	
			<i>For >200, Deduct</i>	-6.80	
32 17 23	13-0133	EA	72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	59.10	
			<i>For Up To 10, Add</i>	6.38	
			<i>For >50 To 100, Deduct</i>	-3.19	
			<i>For >100 To 200, Deduct</i>	-4.25	
			<i>For >200, Deduct</i>	-8.50	
32 17 23	13-0134	EA	Through Lane Arrow, Painted Pavement Marking For Parking Areas	113.66	
			Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23	13-0135	EA	Turn Lane Arrow, Painted Pavement Marking For Parking Areas	134.08	
			Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23	13-0136	EA	Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	200.97	
			Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23	13-0137	EA	Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	205.68	
			Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23	13-0138	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	276.94	
			Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23	13-0139	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	43.18	
			Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
			<i>For Blue Background With White Symbol, Add</i>	37.17	
			<i>For Blue Background With White Symbol And Border, Add</i>	46.47	
32 17 23	13-0140	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	68.37	
			Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
			<i>For Blue Background With White Symbol, Add</i>	81.56	
			<i>For Blue Background With White Symbol And Border, Add</i>	101.95	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 17 23 13-0141			Painted Curbs <small>(32 17 23 13)</small>		
			Note: All colors.		
32 17 23 13-0142	LF		Reflective Painted Curb	3.63	
32 17 23 13-0143	LF		Reflective Painted Curb And Gutter	6.90	
32 17 23 13-0144	LF		Painted Curb	2.95	
32 17 23 13-0145	LF		Painted Curb And Gutter	6.30	

32 17 23 13-0146			Markings For Outdoor Play Areas, Courts <small>(32 17 23 13)</small>		
32 17 23 13-0147	LF		2" Wide Marking For Outdoor Play Areas	1.15	
32 17 23 13-0148	LF		3" Wide Marking For Outdoor Play Areas	1.29	
32 17 23 13-0149	LF		4" Wide Marking For Outdoor Play Areas	1.46	
32 17 23 13-0150	LF		6" Wide Marking For Outdoor Play Areas	1.71	
32 17 23 13-0151	EA		Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera)	378.74	

32 17 23 23 Raised Pavement Markings (32 17 23)

32 17 23 23-0001			Raised Pavement Markers (RPMs) <small>(32 17 23 23)</small>		
			Note: White, Red, Yellow/Amber, Green or Blue		
32 17 23 23-0002	EA		One-Way Reflective, Raised Pavement Marker (RPM)	7.95	2.74
			Note: Type G, H or R		
			For >100, Deduct	-0.80	
32 17 23 23-0003	EA		Two-Way Reflective, Raised Pavement Marker (RPM)	8.45	2.74
			Note: Type B, C, D, AC, RA or RR		
			For >100, Deduct	-0.85	
32 17 23 23-0004	EA		4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	10.49	2.74
			For >100, Deduct	-1.05	
32 17 23 23-0005	EA		4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	7.31	2.74
			Note: Type A or AY		
			For >100, Deduct	-0.73	

32 17 23 23-0006			Snowplowable Pavement Markers <small>(32 17 23 23)</small>		
32 17 23 23-0007	EA		One-Way Reflective, Snowplowable Pavement Marker With Center Rail	78.45	32.99
			Note: Type G, H or R		
32 17 23 23-0008	EA		Two-Way Reflective, Snowplowable Pavement Marker With Center Rail	78.89	32.99
			Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009	EA		Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	22.84	
32 17 23 23-0010	EA		Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	28.77	

32 17 23 33 Plastic Pavement Markings (32 17 23)

32 17 23 33-0001			Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads <small>(32 17 23 33)</small>		
			Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002			Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small>		
			Note: 90 mil thickness.		
32 17 23 33-0003	LF		Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	1.50	
			For Up To 5,000 LF, Add	0.30	
			For >25,000 LF, Deduct	-0.23	
			For 60 mils Thick, Deduct	-0.20	
			For 125 mils Thick, Add	0.26	
			For Broken Line (25% Solid), Deduct	-0.87	
32 17 23 33-0004	LF		Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.13	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.43	
			For >25,000 LF, Deduct	-0.32	
			For 60 mils Thick, Deduct	-0.30	
			For 125 mils Thick, Add	0.39	
			For Broken Line (25% Solid), Deduct	-1.30	
32 17 23 33-0005	LF		Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.83	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.57	
			For >25,000 LF, Deduct	-0.42	
			For 60 mils Thick, Deduct	-0.40	
			For 125 mils Thick, Add	0.52	
			For Broken Line (25% Solid), Deduct	-1.73	
32 17 23 33-0006	LF		Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	4.14	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.83	
			For >25,000 LF, Deduct	-0.62	
			For 60 mils Thick, Deduct	-0.61	
			For 125 mils Thick, Add	0.78	
			For Broken Line (25% Solid), Deduct	-2.60	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0007	LF		Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.81	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.56	
			For >25,000 LF, Deduct	-0.42	
			For 60 mils Thick, Deduct	-0.40	
			For 125 mils Thick, Add	0.52	
			For Broken Line On One Side, Deduct	-0.87	
			For Double Broken Line, Deduct	-1.73	
32 17 23 33-0008	LF		Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	4.14	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.83	
			For >25,000 LF, Deduct	-0.62	
			For 60 mils Thick, Deduct	-0.61	
			For 125 mils Thick, Add	0.78	
			For Broken Line On One Side, Deduct	-1.30	
			For Double Broken Line, Deduct	-2.60	
32 17 23 33-0009	SF		Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	9.83	
			Note: Includes yellow or white.		
			For 60 mils Thick, Deduct	-0.60	
			For 125 mils Thick, Add	0.78	
32 17 23 33-0010	EA		6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	6.70	
			For Up To 10, Add	0.72	
			For >50 To 100, Deduct	-0.36	
			For >100 To 200, Deduct	-0.48	
			For >200, Deduct	-0.96	
			For 60 mils Thick, Deduct	-0.34	
			For 125 mils Thick, Add	0.43	
32 17 23 33-0011	EA		12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	14.19	
			For Up To 10, Add	1.08	
			For >50 To 100, Deduct	-0.54	
			For >100 To 200, Deduct	-0.72	
			For >200, Deduct	-1.45	
			For 60 mils Thick, Deduct	-1.22	
			For 125 mils Thick, Add	1.57	
32 17 23 33-0012	EA		24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	24.18	
			For Up To 10, Add	1.80	
			For >50 To 100, Deduct	-0.90	
			For >100 To 200, Deduct	-1.20	
			For >200, Deduct	-2.40	
			For 60 mils Thick, Deduct	-2.13	
			For 125 mils Thick, Add	2.74	
32 17 23 33-0013	EA		36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	45.53	
			For Up To 10, Add	3.62	
			For >50 To 100, Deduct	-1.81	
			For >100 To 200, Deduct	-2.41	
			For >200, Deduct	-4.83	
			For 60 mils Thick, Deduct	-3.75	
			For 125 mils Thick, Add	4.82	
32 17 23 33-0014	EA		48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	54.82	
			For Up To 10, Add	4.05	
			For >50 To 100, Deduct	-2.03	
			For >100 To 200, Deduct	-2.70	
			For >200, Deduct	-5.40	
			For 60 mils Thick, Deduct	-4.87	
			For 125 mils Thick, Add	6.26	
32 17 23 33-0015	EA		72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	98.88	
			For Up To 10, Add	7.21	
			For >50 To 100, Deduct	-3.60	
			For >100 To 200, Deduct	-4.81	
			For >200, Deduct	-9.61	
			For 60 mils Thick, Deduct	-8.90	
			For 125 mils Thick, Add	11.44	
32 17 23 33-0016	EA		96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	131.40	
			For Up To 10, Add	9.68	
			For >50 To 100, Deduct	-4.84	
			For >100 To 200, Deduct	-6.45	
			For >200, Deduct	-12.90	
			For 60 mils Thick, Deduct	-11.70	
			For 125 mils Thick, Add	15.05	
32 17 23 33-0017	EA		120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	229.20	
			For Up To 10, Add	11.99	
			For >50 To 100, Deduct	-5.99	
			For >100 To 200, Deduct	-7.99	
			For >200, Deduct	-15.99	
			For 60 mils Thick, Deduct	-26.12	
			For 125 mils Thick, Add	33.59	
32 17 23 33-0018	SF		Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	12.05	
			For 60 mils Thick, Deduct	-0.84	
			For 125 mils Thick, Add	1.08	
32 17 23 33-0019	SY		Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	34.33	
			Note: Per SY of area.		
			For 60 mils Thick, Deduct	-1.36	
			For 125 mils Thick, Add	1.75	
32 17 23 33-0020	EA		Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	313.68	
			For 60 mils Thick, Deduct	-19.38	
			For 125 mils Thick, Add	24.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	932.33	
<i>For 60 mils Thick, Deduct</i>	-58.99	
<i>For 125 mils Thick, Add</i>	75.84	
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	195.22	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For 60 mils Thick, Deduct</i>	-26.72	
<i>For 125 mils Thick, Add</i>	34.36	
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	150.02	
<i>For 60 mils Thick, Deduct</i>	-9.27	
<i>For 125 mils Thick, Add</i>	11.92	
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	13.64	
Note: Handicap, railroad, diamond, arrows, etc.		
<i>For 60 mils Thick, Deduct</i>	-0.84	
<i>For 125 mils Thick, Add</i>	1.08	
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	190.93	
<i>For 60 mils Thick, Deduct</i>	-11.80	
<i>For 125 mils Thick, Add</i>	15.17	
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	340.95	
<i>For 60 mils Thick, Deduct</i>	-21.07	
<i>For 125 mils Thick, Add</i>	27.09	
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	422.78	
<i>For 60 mils Thick, Deduct</i>	-26.12	
<i>For 125 mils Thick, Add</i>	33.59	
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	613.71	
<i>For 60 mils Thick, Deduct</i>	-37.92	
<i>For 125 mils Thick, Add</i>	48.75	
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	804.64	
<i>For 60 mils Thick, Deduct</i>	-49.72	
<i>For 125 mils Thick, Add</i>	63.92	
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	572.80	
<i>For 60 mils Thick, Deduct</i>	-35.39	
<i>For 125 mils Thick, Add</i>	45.50	
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	995.57	
<i>For 60 mils Thick, Deduct</i>	-61.51	
<i>For 125 mils Thick, Add</i>	79.09	
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	204.58	
<i>For 60 mils Thick, Deduct</i>	-12.64	
<i>For 125 mils Thick, Add</i>	16.25	
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	450.05	
<i>For 60 mils Thick, Deduct</i>	-27.81	
<i>For 125 mils Thick, Add</i>	35.75	
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	572.80	
<i>For 60 mils Thick, Deduct</i>	-35.39	
<i>For 125 mils Thick, Add</i>	45.50	
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	368.22	
<i>For 60 mils Thick, Deduct</i>	-22.75	
<i>For 125 mils Thick, Add</i>	29.25	
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	490.97	
<i>For 60 mils Thick, Deduct</i>	-30.34	
<i>For 125 mils Thick, Add</i>	39.00	
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	95.47	
<i>For 60 mils Thick, Deduct</i>	-5.90	
<i>For 125 mils Thick, Add</i>	7.58	
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)		
32 17 23 33-0039 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.40	
<i>For 60 mils Thick, Deduct</i>	-0.20	
<i>For 125 mils Thick, Add</i>	0.26	
32 17 23 33-0040 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	4.29	
<i>For 60 mils Thick, Deduct</i>	-0.30	
<i>For 125 mils Thick, Add</i>	0.39	
32 17 23 33-0041 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	5.29	
<i>For 60 mils Thick, Deduct</i>	-0.40	
<i>For 125 mils Thick, Add</i>	0.52	
32 17 23 33-0042 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	7.60	
<i>For 60 mils Thick, Deduct</i>	-0.61	
<i>For 125 mils Thick, Add</i>	0.78	
32 17 23 33-0043 LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	13.66	
<i>For 60 mils Thick, Deduct</i>	-1.21	
<i>For 125 mils Thick, Add</i>	1.56	
32 17 23 33-0044 Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001)		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045 LF Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	3.19	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	0.64	
<i>For >25,000 LF, Deduct</i>	-0.48	
32 17 23 33-0046 LF Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	4.70	
Note: Includes yellow or white.		
<i>For Up To 5,000 LF, Add</i>	0.94	
<i>For >25,000 LF, Deduct</i>	-0.71	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0047	LF		Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping .....6.25 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	1.25	
			For >25,000 LF, Deduct	-0.94	
32 17 23 33-0048	LF		Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping .....9.27 Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	1.85	
			For >25,000 LF, Deduct	-1.39	
32 17 23 33-0049	SF		Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape .....26.11 Note: Includes yellow or white.		
32 17 23 33-0050	EA		6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....38.73		
			For <10, Add	1.31	
			For >50 To 100, Deduct	-0.65	
			For >100 To 200, Deduct	-0.87	
			For >200, Deduct	-1.74	
32 17 23 33-0051	EA		12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....68.18		
			For <10, Add	1.66	
			For >50 To 100, Deduct	-0.83	
			For >100 To 200, Deduct	-1.11	
			For >200, Deduct	-2.21	
32 17 23 33-0052	EA		24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....117.28		
			For <10, Add	3.29	
			For >50 To 100, Deduct	-1.64	
			For >100 To 200, Deduct	-2.19	
			For >200, Deduct	-4.38	
32 17 23 33-0053	EA		36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....169.87		
			For <10, Add	6.57	
			For >50 To 100, Deduct	-3.28	
			For >100 To 200, Deduct	-4.38	
			For >200, Deduct	-8.76	
32 17 23 33-0054	EA		48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....199.01		
			For <10, Add	7.37	
			For >50 To 100, Deduct	-3.68	
			For >100 To 200, Deduct	-4.91	
			For >200, Deduct	-9.82	
32 17 23 33-0055	EA		72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....255.86		
			For <10, Add	13.11	
			For >50 To 100, Deduct	-6.55	
			For >100 To 200, Deduct	-8.74	
			For >200, Deduct	-17.47	
32 17 23 33-0056	EA		96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....326.51		
			For <10, Add	17.60	
			For >50 To 100, Deduct	-8.80	
			For >100 To 200, Deduct	-11.74	
			For >200, Deduct	-23.47	
32 17 23 33-0057	EA		120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....409.18		
			For <10, Add	21.81	
			For >50 To 100, Deduct	-10.91	
			For >100 To 200, Deduct	-14.54	
			For >200, Deduct	-29.08	
32 17 23 33-0058	SF		Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....26.96		
32 17 23 33-0059	SF		Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....28.55 Note: Handicap, railroad, diamond symbol, etc.		
32 17 23 33-0060			Preformed, Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small>		
			Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061	EA		Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....412.12 Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0062	EA		Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....1,093.06 Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0063	EA		Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....217.90 Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0064	EA		6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....183.98 Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0065	EA		9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....357.93 Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0066	EA		4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....213.33 Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0067	EA		8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....398.58 Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0068	EA		Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....681.71 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0069	EA		Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....1,026.82 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0070	EA		Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....368.35 Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0071	EA		Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....409.00 Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0072	EA		Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....754.22 Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0073	EA		Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....693.41 Note: Approximate overall dimensions: 3-1/2' width x 20' height.		



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Paving Specialties	32 17

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0074 EA Prefomed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	696.60	
Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0075 EA Prefomed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	958.17	
Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
32 17 23 33-0076 Pavement Marking (Monterey County) (32 17 23 33-0001)		
32 17 23 33-0077 SF Thermoplastic Pavement Marking (Monterey County).....	10.70	
32 17 23 33-0078 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0079 Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0078)		
Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0080 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	140.49	
Note: White or blue symbol. Excludes striping.		
32 17 23 33-0081 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	527.14	
32 17 23 33-0082 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	298.68	
Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0083 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	358.75	
Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0084 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	375.99	
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26)		
Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface.....	69.78	10.75
Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface.....	55.82	10.75
Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004 EA 30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset.....	408.18	
32 17 26 00-0005 LF 24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete.....	99.90	21.48
32 17 26 00-0006 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26)		
Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	82.93	10.75
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 17 26 00-0008 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	73.26	10.75
Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 18 Athletic and Recreational Surfacing (32 10)		
32 18 16 Synthetic Resilient Surfacing (32 18)		
32 18 16 13 Playground Protective Surfacing (32 18 16)		
32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13)		
Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing	23.74	2.50
For Manufacturer's Standard Colors, Add	1.46	
For Interlocking Tiles, Add	3.25	
For Mechanically Fastened, Add	1.90	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing.....	24.20	2.65
For Manufacturer's Standard Colors, Add	1.46	
For Interlocking Tiles, Add	3.25	
For Mechanically Fastened, Add	1.99	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile Playground Surfacing	25.15	2.96
For Manufacturer's Standard Colors, Add	1.46	
For Interlocking Tiles, Add	3.25	
For Mechanically Fastened, Add	2.18	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile Playground Surfacing	26.08	3.27
For Manufacturer's Standard Colors, Add	1.46	
For Interlocking Tiles, Add	3.25	
For Mechanically Fastened, Add	2.37	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0006	SF		2-3/4" Thick, Resilient Rubber Tile Playground Surfacing	29.11	3.59
			<i>For Manufacturer's Standard Colors, Add</i>	1.10	
			<i>For Interlocking Tiles, Add</i>	3.67	
			<i>For Mechanically Fastened, Add</i>	2.55	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0007	SF		3" Thick, Resilient Rubber Tile Playground Surfacing	30.14	3.93
			<i>For Manufacturer's Standard Colors, Add</i>	1.10	
			<i>For Interlocking Tiles, Add</i>	3.67	
			<i>For Mechanically Fastened, Add</i>	2.76	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0008	SF		3-1/4" Thick, Resilient Rubber Tile Playground Surfacing	31.22	4.29
			<i>For Manufacturer's Standard Colors, Add</i>	1.10	
			<i>For Interlocking Tiles, Add</i>	3.67	
			<i>For Mechanically Fastened, Add</i>	2.97	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0009	SF		3-1/2" Thick, Resilient Rubber Tile Playground Surfacing	34.34	4.58
			<i>For Manufacturer's Standard Colors, Add</i>	0.61	
			<i>For Interlocking Tiles, Add</i>	4.10	
			<i>For Mechanically Fastened, Add</i>	3.17	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0010	SF		3-3/4" Thick, Resilient Rubber Tile Playground Surfacing	35.27	4.96
			<i>For Manufacturer's Standard Colors, Add</i>	0.61	
			<i>For Interlocking Tiles, Add</i>	4.10	
			<i>For Mechanically Fastened, Add</i>	3.36	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0011	SF		4" Thick, Resilient Rubber Tile Playground Surfacing	36.30	5.24
			<i>For Manufacturer's Standard Colors, Add</i>	0.61	
			<i>For Interlocking Tiles, Add</i>	4.10	
			<i>For Mechanically Fastened, Add</i>	3.56	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0012	SF		4-1/2" Thick, Resilient Rubber Tile Playground Surfacing	41.79	5.90
			<i>For Manufacturer's Standard Colors, Add</i>	0.60	
			<i>For Interlocking Tiles, Add</i>	4.80	
			<i>For Mechanically Fastened, Add</i>	3.96	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0013			Loose Laid Playground Surface Material <small>(32 18 16 13)</small>		
			Note: Excludes sub base.		
32 18 16 13-0014	SF		3" Loose Laid Wood Fiber Safety Playground Surfacing	1.93	0.38
32 18 16 13-0015	SF		6" Loose Laid Wood Fiber Safety Playground Surfacing	2.59	0.47
32 18 16 13-0016	SF		9" Loose Laid Wood Fiber Safety Playground Surfacing	3.33	0.57
32 18 16 13-0017	SF		12" Loose Laid Wood Fiber Safety Playground Surfacing	4.70	0.84
32 18 16 13-0018	SF		3" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.06	0.38
32 18 16 13-0019	SF		6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.78	0.47
32 18 16 13-0020	SF		9" Loose Laid Synthetic Fiber Safety Playground Surfacing	5.93	0.57
32 18 16 13-0021	SF		12" Loose Laid Synthetic Fiber Safety Playground Surfacing	7.33	0.84
32 18 16 13-0022	SF		8" FIBAR System Playground Surfacing	12.39	1.41
			Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023	SF		12" FIBAR System Playground Surfacing	15.71	1.87
			Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
32 18 16 13-0024			Poured In Place Playground Surfacing <small>(32 18 16 13)</small>		
			Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025	SF		1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing	18.98	2.85
			<i>For Up To 2,000, Add</i>	3.84	
			<i>For >2,000 To 3,000, Add</i>	2.70	
			<i>For >3,000 To 4,000, Add</i>	1.84	
			<i>For >4,000 To 5,000, Add</i>	1.18	
			<i>For >5,000 To 7,000, Add</i>	0.49	
			<i>For Aliphatic (Non-Yellowing) Binder, Add</i>	4.28	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.58	
32 18 16 13-0026	SF		2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing	19.58	3.16
			<i>For Up To 2,000, Add</i>	3.96	
			<i>For >2,000 To 3,000, Add</i>	2.79	
			<i>For >3,000 To 4,000, Add</i>	1.90	
			<i>For >4,000 To 5,000, Add</i>	1.21	
			<i>For >5,000 To 7,000, Add</i>	0.50	
			<i>For Aliphatic (Non-Yellowing) Binder, Add</i>	4.28	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.58	
32 18 16 13-0027	SF		2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing	21.13	3.61
			<i>For Up To 2,000, Add</i>	4.27	
			<i>For >2,000 To 3,000, Add</i>	3.01	
			<i>For >3,000 To 4,000, Add</i>	2.05	
			<i>For >4,000 To 5,000, Add</i>	1.31	
			<i>For >5,000 To 7,000, Add</i>	0.54	
			<i>For Aliphatic (Non-Yellowing) Binder, Add</i>	4.28	
			<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0028 SF 3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	22.82	3.84
For Up To 2,000, Add	4.61	
For >2,000 To 3,000, Add	3.25	
For >3,000 To 4,000, Add	2.21	
For >4,000 To 5,000, Add	1.41	
For >5,000 To 7,000, Add	0.59	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0029 SF 3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	24.51	4.04
For Up To 2,000, Add	4.95	
For >2,000 To 3,000, Add	3.49	
For >3,000 To 4,000, Add	2.38	
For >4,000 To 5,000, Add	1.52	
For >5,000 To 7,000, Add	0.63	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0030 SF 4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	25.95	4.27
For Up To 2,000, Add	5.24	
For >2,000 To 3,000, Add	3.70	
For >3,000 To 4,000, Add	2.52	
For >4,000 To 5,000, Add	1.61	
For >5,000 To 7,000, Add	0.67	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0031 SF 4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	27.64	4.51
For Up To 2,000, Add	5.59	
For >2,000 To 3,000, Add	3.94	
For >3,000 To 4,000, Add	2.68	
For >4,000 To 5,000, Add	1.71	
For >5,000 To 7,000, Add	0.71	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0032 SF 5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	31.01	5.05
For Up To 2,000, Add	6.27	
For >2,000 To 3,000, Add	4.42	
For >3,000 To 4,000, Add	3.01	
For >4,000 To 5,000, Add	1.92	
For >5,000 To 7,000, Add	0.80	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0033 SF 1/2" Top Only, Poured In Place Playground Surfacing	12.39	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	3.77	
For >2,000 To 3,000, Add	2.44	
For >3,000 To 4,000, Add	1.49	
For >4,000 To 5,000, Add	0.90	
For >5,000 To 7,000, Add	0.41	
For Aliphatic (Non-Yellowing) Binder, Add	4.28	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.58	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	2,804.50	
32 18 16 13-0035 Synthetic Playground Turf (Sporturf) <small>(32 18 16 13)</small>		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	10.52	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	9.25	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf).....	5.97	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf).....	55.87	
32 18 23 Athletic Surfacing <small>(32 18)</small>		
32 18 23 13 Baseball Field Surfacing <small>(32 18 23)</small>		
32 18 23 13-0001 Clay Infield Maintenance <small>(32 18 23 13)</small>		
32 18 23 13-0002 MSF Playing Field Maintenance (Clay - Nail Drag).....	11.96	
32 18 23 13-0003 MSF Playing Field Maintenance (Clay - Screen Drag).....	11.96	
32 18 23 13-0004 CY Playing Field Maintenance Of Clay.....	107.72	
32 18 23 13-0005 Ton Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix)	182.01	
32 18 23 23 Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 23-0001 Turf Field Maintenance <small>(32 18 23 23)</small>		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	160.93	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand	15.31	
32 18 23 23-0004 BAG Envirofill, 50 LB Bag	120.80	
32 18 23 29 Synthetic Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 29-0001 Synthetic Field Sport Surfacing <small>(32 18 23 29)</small>		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 18 23 29-0002	Synthetic Turf (AstroTurf) ^(32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.	
32 18 23 29-0003	Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) ^(32 18 23 29-0002)	
32 18 23 29-0004	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) ^(32 18 23 29-0003)	
32 18 23 29-0005	SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38).....	8.28
	<i>For Ambient Rubber And Sand Infill, Add</i>	0.10
	<i>For Cryo Rubber Infill, Add</i>	0.26
	<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31
	<i>For Cryo Rubber And Sand Infill, Add</i>	0.36
32 18 23 29-0006	EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	27,453.10
32 18 23 29-0007	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	22,376.87
32 18 23 29-0008	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	6,733.78
	Note: Per sport.	
32 18 23 29-0009	EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields.....	2,486.32
	Note: Per letter. Excludes outline.	
32 18 23 29-0010	EA Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields.....	2,382.72
	Note: Per endzone.	
32 18 23 29-0011	EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields.....	20,719.32
	Note: Block letter.	
32 18 23 29-0012	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields.....	30,043.01
	Note: Graphic.	
32 18 23 29-0013	41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) ^(32 18 23 29-0003)	
32 18 23 29-0014	SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41).....	9.53
	<i>For Ambient Rubber And Sand Infill, Add</i>	0.10
	<i>For Cryo Rubber Infill, Add</i>	0.26
	<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31
	<i>For Cryo Rubber And Sand Infill, Add</i>	0.36
32 18 23 29-0015	EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	27,971.25
32 18 23 29-0016	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	23,205.78
32 18 23 29-0017	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	7,251.81
	Note: Per sport.	
32 18 23 29-0018	EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields.....	2,693.53
	Note: Per letter. Excludes outline.	
32 18 23 29-0019	EA Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields.....	2,486.33
	Note: Per endzone.	
32 18 23 29-0020	EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields.....	21,755.42
	Note: Block letter.	
32 18 23 29-0021	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields.....	31,545.35
	Note: Graphic.	
32 18 23 29-0022	45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) ^(32 18 23 29-0003)	
32 18 23 29-0023	SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45).....	9.71
	<i>For Ambient Rubber And Sand Infill, Add</i>	0.10
	<i>For Cryo Rubber Infill, Add</i>	0.26
	<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31
	<i>For Cryo Rubber And Sand Infill, Add</i>	0.36
32 18 23 29-0024	EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	28,489.24
32 18 23 29-0025	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	25,070.53
32 18 23 29-0026	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	7,769.79
	Note: Per sport.	
32 18 23 29-0027	EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields.....	2,900.72
	Note: Per letter. Excludes outline.	
32 18 23 29-0028	EA Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields.....	2,589.93
	Note: Per endzone.	
32 18 23 29-0029	EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	22,791.39
	Note: Block letter.	
32 18 23 29-0030	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	33,047.51
	Note: Graphic.	
32 18 23 29-0031	Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) ^(32 18 23 29-0002)	
32 18 23 29-0032	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) ^(32 18 23 29-0031)	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Athletic and Recreational Surfacing	32 18

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0033	SF		52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	10.88	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0034	EA		Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	29,525.03	
32 18 23 29-0035	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	31,493.37	
32 18 23 29-0036	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	8,805.71	
			Note: Per sport.		
32 18 23 29-0037	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields	3,315.09	
			Note: Per letter. Excludes outline.		
32 18 23 29-0038	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields	2,797.11	
			Note: Per endzone.		
32 18 23 29-0039	EA		Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	24,863.18	
			Note: Block letter.		
32 18 23 29-0040	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	36,051.62	
			Note: Graphic.		
32 18 23 29-0041			60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) ^(32 18 23 29-0031)		
32 18 23 29-0042	SF		60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	11.26	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0043	EA		Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	30,043.01	
32 18 23 29-0044	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	35,015.65	
32 18 23 29-0045	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	9,323.69	
			Note: Per sport.		
32 18 23 29-0046	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields	3,522.28	
			Note: Per letter. Excludes outline.		
32 18 23 29-0047	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields	2,900.70	
			Note: Per endzone.		
32 18 23 29-0048	EA		Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	25,899.15	
			Note: Block letter.		
32 18 23 29-0049	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	37,553.77	
			Note: Graphic.		
32 18 23 29-0050			52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) ^(32 18 23 29-0031)		
32 18 23 29-0051	SF		52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	11.28	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0052	EA		Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	30,561.00	
32 18 23 29-0053	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	35,222.84	
32 18 23 29-0054	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	9,841.68	
			Note: Per sport.		
32 18 23 29-0055	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields	3,729.48	
			Note: Per letter. Excludes outline.		
32 18 23 29-0056	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields	3,004.30	
			Note: Per endzone.		
32 18 23 29-0057	EA		Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	26,935.12	
			Note: Block letter.		
32 18 23 29-0058	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	39,055.92	
			Note: Graphic.		
32 18 23 29-0059			60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) ^(32 18 23 29-0031)		
32 18 23 29-0060	SF		60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	11.49	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.20	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0061	EA		Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	31,078.98	
32 18 23 29-0062	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	37,501.97	
32 18 23 29-0063	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	10,359.66	
			Note: Per sport.		
32 18 23 29-0064	EA		Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields	4,143.86	
			Note: Per letter. Excludes outline.		
32 18 23 29-0065	EA		Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields	3,107.90	
			Note: Per endzone.		
32 18 23 29-0066	EA		Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields	27,971.08	
			Note: Block letter.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Graphic.	40,558.07	
	32 18 23 29-0068		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
	32 18 23 29-0069		38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		
	32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38)	9.15	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
	32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	26,417.29	
	32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	19,476.28	
	32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per sport.	5,697.85	
	32 18 23 29-0074	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per letter. Excludes outline.	2,071.94	
	32 18 23 29-0075	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per endzone.	2,175.54	
	32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Block letter.	18,647.50	
	32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Graphic.	27,038.87	
	32 18 23 29-0078		42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
	32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42)	8.02	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
	32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	26,935.12	
	32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	20,719.32	
	32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per sport.	6,215.80	
	32 18 23 29-0083	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per letter. Excludes outline.	2,279.13	
	32 18 23 29-0084	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per endzone.	2,279.13	
	32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Block letter.	19,683.35	
	32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Graphic.	28,540.86	
	32 18 23 29-0087		Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
	32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®)	18.14	
	32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®)	16.23	
	32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields	51,118.17	
	32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields	60,730.13	
	32 18 23 29-0092	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields Note: Per sport.	14,854.85	
	32 18 23 29-0093	EA	Endzone Lettering For AstroTurf® PureGrass® Fields Note: Per letter. Excludes outline.	5,679.80	
	32 18 23 29-0094	EA	Colored Endzone For AstroTurf® PureGrass® Fields Note: Per endzone.	4,215.93	
	32 18 23 29-0095	EA	Simple Logo For AstroTurf® PureGrass® Fields Note: Block letter.	37,943.38	
	32 18 23 29-0096	EA	Deluxe Logo For AstroTurf® PureGrass® Fields Note: Graphic.	55,705.69	
	32 18 23 29-0097		Synthetic Turf (G9 Turf) (32 18 23 29-0001)		
			Note: Includes labor, equipment and material required to install the task.		
	32 18 23 29-0098	SF	2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.	9.96	
			<i>For >35,000, Deduct</i>	-0.89	
	32 18 23 29-0099	SF	2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf) Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.	9.87	
			<i>For >35,000, Deduct</i>	-0.88	
	32 18 23 29-0100	SF	1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf) Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.	10.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf Note: Includes field grid, numbers, arrows, coach's box and kick off lines.	70,684.04	
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf.....	30,629.75	
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf.....	30,629.75	
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf.....	30,629.75	
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf.....	30,629.75	
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf..... Note: Priced per letter. Includes single color outlining.	3,534.20	
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	3.31	
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	8.64	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	2.47	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	1.24	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	2.04	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf..... Note: Includes a comprehensive report.	2,356.13	
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf.....	23,561.35	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf..... Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.77	
<i>For >10,000 To 30,000, Deduct</i>	-0.31	
<i>For >30,000 To 60,000, Deduct</i>	-0.54	
<i>For >60,000, Deduct</i>	-0.59	
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	5.28	
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	5.87	
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf..... Note: Used for drainage over asphalt or on roof tops.	4.81	
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf..... Note: Used for additional Gmax for a stone base field.	2.96	
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Includes field inspection and report.	4,695.60	
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	12.91	
32 18 23 29-0121 LF Nailer Used To Attach G9 Synthetic Turf.....	5.17	
32 18 23 29-0122 SF Removal And Recycling Of Existing Field..... Note: Includes removal, shipping and recycling of infill, fibers and backing.	3.64	
 32 18 23 33 Running Track Surfacing (32 18 23)		
32 18 23 33-0001 Running Track Surfacing (32 18 23 33)		
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing.....	32.57	
 32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)		
32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track..... Note: Includes certification.	19.84	
 32 18 23 39 Synthetic Running Track Surfacing (32 18 23)		
32 18 23 39-0001 Synthetic Running Track Surfacing And Striping (32 18 23 39)		
Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing.....	82.82	7.16
<i>For >5,500, Deduct</i>	-6.50	
<i>For Up To 4,000, Add</i>	20.69	
32 18 23 39-0003 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing.....	104.05	7.16
<i>For >5,500, Deduct</i>	-8.72	
<i>For Up To 4,000, Add</i>	27.76	
<i>For Custom Color Upgrade, Add</i>	7.53	
<i>For Aliphatic Top Coating, Add</i>	14.28	
32 18 23 39-0004 SY Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing.....	170.40	7.16
<i>For >5,500, Deduct</i>	-8.00	
<i>For Up To 4,000, Add</i>	46.65	
<i>For Custom Color Upgrade, Add</i>	10.26	
<i>For Aliphatic Top Coating, Add</i>	19.06	
32 18 23 39-0005 SY Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing.....	221.43	7.16
<i>For >5,500, Deduct</i>	-10.33	
<i>For Up To 4,000, Add</i>	60.26	
<i>For Custom Color Upgrade, Add</i>	13.43	
<i>For Aliphatic Top Coating, Add</i>	19.63	
32 18 23 39-0006 SY Latex Binder, Synthetic Running Track Surfacing.....	75.74	
<i>For >5,500, Deduct</i>	-10.98	
<i>For Up To 4,000, Add</i>	26.51	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0007	SY		Spray Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	66.53 23.29 -6.51	
32 18 23 39-0008	SY		Sandwich Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	128.78 45.07 -13.57	
32 18 23 53 Tennis Court Surfacing (32 18 23)					
32 18 23 53-0001			Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY		Tennis Court Bituminous Pavement, 2-1/2" Thick.....	32.59	
32 18 23 53-0003			Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA		Paint Markings On Asphalt Tennis Court 2 Coats.....	632.84	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)					
32 18 23 56-0001	SY		Clay Tennis Court.....	44.67	
32 18 23 56-0002	SY		Tennis Court, Pulverized Natural Greenstone, Fast Dry..... Note: Includes 4" base.	49.62	
32 18 23 56-0003	SY		Tennis Court, Rubber-Cork Base Resilient Pavement.....	19.52	
32 18 23 56-0004	SY		Resurface Clay Tennis Court.....	13.33	
32 18 23 56-0005	SY		Resurface Tennis Court, Pulverized Natural Greenstone.....	11.38	
32 18 23 56-0006	SY		Resurface Tennis Court, Resilient Pavement.....	8.49	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)					
32 18 23 61-0001			100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.78	
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat..... Note: For previously uncoated portland cement concrete. Applied with broom.	1.01	
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	2.60	
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat..... Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	108.66	
32 18 23 61-0007			Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001) Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	4.09	
			<i>For Pacific Blue, Add</i>	0.25	
			<i>For US Open Blue, Add</i>	0.87	
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	3.25	
			<i>For Pacific Blue, Add</i>	0.18	
			<i>For US Open Blue, Add</i>	0.62	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat..... Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	2.78	
			<i>For Pacific Blue, Add</i>	0.14	
			<i>For US Open Blue, Add</i>	0.49	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat..... Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	2.96	
			<i>For Pacific Blue, Add</i>	0.08	
			<i>For US Open Or Australian Open Blue, Add</i>	0.57	
			<i>For Pro Purple, Add</i>	1.47	
32 18 23 61-0012			Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®)..... Note: Textured or non-textured highly reflective line marking paint.	1.61	



Exterior Improvements	32	32
Bases, Ballasts, and Paving	32 10	
Athletic and Recreational Surfacing	32 18	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0014 Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) <small>(32 18 23 61-0001)</small>		
32 18 23 61-0015 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat	6.99	
Note: Applied with rubber squeegee.		
32 18 23 61-0016 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat	9.72	
Note: Applied with rubber squeegee.		
32 18 23 61-0017 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat	8.29	
Note: Price per coat for third or additional coats. Applied with rubber squeegee.		
32 18 23 61-0018 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat	6.09	
Note: Applied with rubber squeegee.		
32 18 23 61-0019 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat	4.53	
Note: Price per coat for second or additional coats. Applied with rubber squeegee.		
32 18 23 61-0020 Resurface Athletic Court <small>(32 18 23 61)</small>		
Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021 SY Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster)	2.71	

32 30 Site Improvements (32)

32 31 Fences and Gates (32 30)

32 31 11 Gate Operators (32 31)

32 31 11 00-0001 Gate Operators (32 31 11)

Note: Excludes gates, electrical connections, access controls and concrete foundation.

32 31 11 00-0002 Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)

32 31 11 00-0003 Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0002)

32 31 11 00-0004 Single Gate, Swing Gate Actuator (32 31 11 00-0003)

32 31 11 00-0005 EA Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) 1,995.50 225.01

Note: Includes one primary operator with a 10' wide gate capacity.

32 31 11 00-0006 EA Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) 2,665.21 225.01

Note: Includes one primary operator with a 14' wide gate capacity.

32 31 11 00-0007 Dual Gate, Swing Gate Actuator (32 31 11 00-0003)

32 31 11 00-0008 EA Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) 3,991.01 450.02

Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.

32 31 11 00-0009 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) 5,330.43 450.02

Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.

32 31 11 00-0010 Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)

32 31 11 00-0011 Single Gate, Swing Gate Operators (32 31 11 00-0010)

32 31 11 00-0012 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050) 4,090.48 225.01

Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.

32 31 11 00-0013 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100) 4,451.10 225.01

Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.

32 31 11 00-0014 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 6,048.09 225.01

Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.

For 208/230/460 Volt AC, Add 322.50

32 31 11 00-0015 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 6,855.18 225.01

Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.

For 208/230/460 Volt AC, Add 322.50

32 31 11 00-0016 Dual Gate, Swing Gate Operators (32 31 11 00-0010)

32 31 11 00-0017 EA 400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050) 7,236.52 450.02

Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.

32 31 11 00-0018 EA 500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100) 7,957.74 450.02

Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.

32 31 11 00-0019 EA 700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) 11,134.56 450.02

Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.

For 208/230/460 Volt AC, Add 322.50

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-020	EA		800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity. For 208/230/460 Volt AC, Add	12,903.28 322.50	450.02
32 31 11 00-021			Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002) Note: Includes 20' of chain. See CSI section 32 31 11 00-0030 for additional chain over 20'.		
32 31 11 00-022	EA		300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,909.03	225.01
32 31 11 00-023	EA		1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,662.23	270.02
32 31 11 00-024	EA		1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150)..... Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,281.21	270.02
32 31 11 00-025	EA		3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,277.56	315.01
32 31 11 00-026	EA		2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	5,232.55	315.01
32 31 11 00-027	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	7,126.42	360.02
32 31 11 00-028	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	11,861.58	360.02
32 31 11 00-029	EA		10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	20,069.00	405.02
32 31 11 00-030			Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0031	EA		Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	657.59	
32 31 11 00-0032	EA		Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,279.13	
32 31 11 00-0033	EA		Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	866.88	
32 31 11 00-0034	EA		Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	939.73	
32 31 11 00-0035	EA		Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	836.70	
32 31 11 00-0036	EA		Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	587.70	
32 31 11 00-0037	LF		#40 Chain For Sliding Gate Operators.....	5.97	
32 31 11 00-0038	LF		#41 Chain For Sliding Gate Operators.....	6.23	
32 31 11 00-0039	LF		#50 Chain For Sliding Gate Operators.....	7.95	
32 31 11 00-0040	LF		#60 Chain For Sliding Gate Operators.....	12.20	
32 31 11 00-0041	EA		Exterior Keypad Gate Operator (Linear AK-11).....	730.46	153.42
32 31 11 00-042			Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0043	EA		Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U)..... Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoops (LMRRUL) and 5' Resistive Safety Edge (S505AL). For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add For 10 Watt Solar Panel (Liftmaster SP10W12V), Add For Each Additional 10' Chain, Add	2,860.60 191.03 136.74 67.34 270.67 40.54	275.89
32 31 13			Chain Link Fences and Gates (32 31)		
32 31 13 13			Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001			Post Holes (32 31 13 13) Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.		
32 31 13 13-0002			Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF		Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.03	
32 31 13 13-0004	VLF		2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	11.28	
32 31 13 13-0005	VLF		3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	13.37	
32 31 13 13-0006	VLF		4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.04	
32 31 13 13-0007	VLF		6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	16.41	
32 31 13 13-0008	VLF		8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	18.05	
32 31 13 13-0009	VLF		10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	20.06	
32 31 13 13-0010	VLF		12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	22.56	
32 31 13 13-0011	VLF		18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	25.79	
32 31 13 13-0012	VLF		24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	30.08	
32 31 13 13-0013	VLF		30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	36.10	
32 31 13 13-0014	VLF		36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	45.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0015 Post Hole In Rock <small>(32 31 13 13-0001)</small>		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	75.20	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	21.15	
32 31 13 13-0018 Fill For Post Holes <small>(32 31 13 13-0001)</small>		
See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019 Concrete Fill For Post Holes <small>(32 31 13 13-0018)</small>		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	5.95	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	7.64	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole.....	8.42	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole.....	9.67	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole.....	13.62	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole.....	18.19	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole.....	22.24	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole.....	25.93	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole.....	35.32	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole.....	43.81	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole.....	52.10	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole.....	60.68	
32 31 13 13-0032 Grout Fill For Post Holes <small>(32 31 13 13-0018)</small>		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.06	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole.....	9.08	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	9.88	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	11.12	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	15.53	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	20.71	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	25.24	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	29.29	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	39.16	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	47.83	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	56.23	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	64.83	
32 31 13 13-0045 Compacted Earth Fill For Post Holes <small>(32 31 13 13-0018)</small>		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.01	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	6.52	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	6.81	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	7.02	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	9.38	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	12.50	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	15.00	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	17.00	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	20.71	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	23.25	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	25.50	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	27.50	
32 31 13 13-0058 Fence Posts <small>(32 31 13 13)</small>		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts <small>(32 31 13 13-0058)</small>		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel <small>(32 31 13 13-0059)</small>		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	21.14	3.41
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	20.17	2.90
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	18.99	2.40
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	18.04	1.90
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	17.40	1.64
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length.....	16.41	1.14
For Each Top Rail Fitting, Add		0.85
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	14.59	3.15
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.07	
			<i>For Vinyl Coated, Add</i>	4.96	
			<i>For Powder Coated, Add</i>	6.62	
			<i>For Aluminum Coated, Add</i>	10.34	
			<i>For Schedule 20, Deduct</i>	-1.65	
			<i>For Schedule 80, Add</i>	4.60	
	32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	13.49	2.66
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.04	
			<i>For Vinyl Coated, Add</i>	4.89	
			<i>For Powder Coated, Add</i>	6.52	
			<i>For Aluminum Coated, Add</i>	10.19	
			<i>For Schedule 20, Deduct</i>	-1.63	
			<i>For Schedule 80, Add</i>	4.45	
	32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	12.35	2.15
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.02	
			<i>For Vinyl Coated, Add</i>	4.85	
			<i>For Powder Coated, Add</i>	6.47	
			<i>For Aluminum Coated, Add</i>	10.11	
			<i>For Schedule 20, Deduct</i>	-1.62	
			<i>For Schedule 80, Add</i>	4.31	
	32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	11.48	1.64
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.02	
			<i>For Vinyl Coated, Add</i>	4.84	
			<i>For Powder Coated, Add</i>	6.45	
			<i>For Aluminum Coated, Add</i>	10.08	
			<i>For Schedule 20, Deduct</i>	-1.61	
			<i>For Schedule 80, Add</i>	4.21	
	32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	10.90	1.39
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.01	
			<i>For Vinyl Coated, Add</i>	4.83	
			<i>For Powder Coated, Add</i>	6.44	
			<i>For Aluminum Coated, Add</i>	10.06	
			<i>For Schedule 20, Deduct</i>	-1.61	
			<i>For Schedule 80, Add</i>	4.15	
	32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	10.28	1.14
			<i>For Each Top Rail Fitting, Add</i>	0.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
			<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.01	
			<i>For Vinyl Coated, Add</i>	4.83	
			<i>For Powder Coated, Add</i>	6.44	
			<i>For Aluminum Coated, Add</i>	10.06	
			<i>For Schedule 20, Deduct</i>	-1.61	
			<i>For Schedule 80, Add</i>	4.09	
	32 31 13 13-0074		Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) <small>(32 31 13 13-0059)</small>		
			Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
	32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	16.64	3.29
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.53	
			<i>For Vinyl Coated, Add</i>	6.07	
			<i>For Powder Coated, Add</i>	8.09	
			<i>For Aluminum Coated, Add</i>	12.64	
			<i>For Schedule 20, Deduct</i>	-2.02	
			<i>For Schedule 80, Add</i>	5.51	
	32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	15.63	2.78
			<i>For Each Top Rail Fitting, Add</i>	1.35	
			<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
			<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.49	
			<i>For Vinyl Coated, Add</i>	5.98	
			<i>For Powder Coated, Add</i>	7.98	
			<i>For Aluminum Coated, Add</i>	12.46	
			<i>For Schedule 20, Deduct</i>	-1.99	
			<i>For Schedule 80, Add</i>	5.35	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	14.40	2.27
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.47	
For Vinyl Coated, Add	5.93	
For Powder Coated, Add	7.91	
For Aluminum Coated, Add	12.36	
For Schedule 20, Deduct	-1.98	
For Schedule 80, Add	5.20	
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	13.46	1.77
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.46	
For Vinyl Coated, Add	5.91	
For Powder Coated, Add	7.88	
For Aluminum Coated, Add	12.31	
For Schedule 20, Deduct	-1.97	
For Schedule 80, Add	5.09	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	12.85	1.51
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.46	
For Vinyl Coated, Add	5.90	
For Powder Coated, Add	7.87	
For Aluminum Coated, Add	12.30	
For Schedule 20, Deduct	-1.97	
For Schedule 80, Add	5.02	
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length.....	12.28	1.27
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.46	
For Vinyl Coated, Add	5.90	
For Powder Coated, Add	7.86	
For Aluminum Coated, Add	12.29	
For Schedule 20, Deduct	-1.97	
For Schedule 80, Add	4.96	
32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	20.26	3.54
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.34	
For Vinyl Coated, Add	8.02	
For Powder Coated, Add	10.70	
For Aluminum Coated, Add	16.71	
For Schedule 20, Deduct	-2.67	
For Schedule 80, Add	7.11	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	19.12	3.03
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.30	
For Vinyl Coated, Add	7.92	
For Powder Coated, Add	10.56	
For Aluminum Coated, Add	16.50	
For Schedule 20, Deduct	-2.64	
For Schedule 80, Add	6.93	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	17.85	2.40
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.28	
For Vinyl Coated, Add	7.87	
For Powder Coated, Add	10.49	
For Aluminum Coated, Add	16.39	
For Schedule 20, Deduct	-2.62	
For Schedule 80, Add	6.77	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	16.86	1.90
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.27	
For Vinyl Coated, Add	7.84	
For Powder Coated, Add	10.46	
For Aluminum Coated, Add	16.34	
For Schedule 20, Deduct	-2.61	
For Schedule 80, Add	6.65	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0086	LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	16.20	1.64
	<i>For Each Top Rail Fitting, Add</i>	1.35	
	<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
	<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.26	
	<i>For Vinyl Coated, Add</i>	7.83	
	<i>For Powder Coated, Add</i>	10.44	
	<i>For Aluminum Coated, Add</i>	16.31	
	<i>For Schedule 20, Deduct</i>	-2.61	
	<i>For Schedule 80, Add</i>	6.58	
32 31 13 13-0087	LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	15.61	1.27
	<i>For Each Top Rail Fitting, Add</i>	1.35	
	<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
	<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.26	
	<i>For Vinyl Coated, Add</i>	7.83	
	<i>For Powder Coated, Add</i>	10.44	
	<i>For Aluminum Coated, Add</i>	16.31	
	<i>For Schedule 20, Deduct</i>	-2.61	
	<i>For Schedule 80, Add</i>	6.52	
32 31 13 13-0088	Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) <small>(32 31 13 13-0059)</small>		
	Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089	LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	27.81	3.79
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.06	
	<i>For Vinyl Coated, Add</i>	12.14	
	<i>For Powder Coated, Add</i>	16.18	
	<i>For Aluminum Coated, Add</i>	25.29	
	<i>For Schedule 20, Deduct</i>	-4.05	
	<i>For Schedule 80, Add</i>	10.47	
32 31 13 13-0090	LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	26.41	3.29
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.97	
	<i>For Vinyl Coated, Add</i>	11.93	
	<i>For Powder Coated, Add</i>	15.90	
	<i>For Aluminum Coated, Add</i>	24.85	
	<i>For Schedule 20, Deduct</i>	-3.98	
	<i>For Schedule 80, Add</i>	10.20	
32 31 13 13-0091	LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	24.96	2.66
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.93	
	<i>For Vinyl Coated, Add</i>	11.82	
	<i>For Powder Coated, Add</i>	15.76	
	<i>For Aluminum Coated, Add</i>	24.63	
	<i>For Schedule 20, Deduct</i>	-3.94	
	<i>For Schedule 80, Add</i>	9.98	
32 31 13 13-0092	LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	23.83	2.15
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.91	
	<i>For Vinyl Coated, Add</i>	11.77	
	<i>For Powder Coated, Add</i>	15.70	
	<i>For Aluminum Coated, Add</i>	24.53	
	<i>For Schedule 20, Deduct</i>	-3.92	
	<i>For Schedule 80, Add</i>	9.84	
32 31 13 13-0093	LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	23.08	1.77
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.89	
	<i>For Vinyl Coated, Add</i>	11.74	
	<i>For Powder Coated, Add</i>	15.66	
	<i>For Aluminum Coated, Add</i>	24.46	
	<i>For Schedule 20, Deduct</i>	-3.91	
	<i>For Schedule 80, Add</i>	9.74	
32 31 13 13-0094	LF 3" Outside Diameter Galvanized Steel Post, >24' In Length	22.41	1.39
	<i>For Each Top Rail Fitting, Add</i>	1.85	
	<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
	<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
	<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.89	
	<i>For Vinyl Coated, Add</i>	11.74	
	<i>For Powder Coated, Add</i>	15.65	
	<i>For Aluminum Coated, Add</i>	24.45	
	<i>For Schedule 20, Deduct</i>	-3.91	
	<i>For Schedule 80, Add</i>	9.67	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) <small>(32 31 13 13-0059)</small>		
<small>Note: 4" outside diameter, Schedule 40. Includes cap and accessories.</small>		
32 31 13 13-0096 LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	41.00	4.05
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.26	
<i>For Vinyl Coated, Add</i>	19.82	
<i>For Powder Coated, Add</i>	26.42	
<i>For Aluminum Coated, Add</i>	41.29	
<i>For Schedule 20, Deduct</i>	-6.61	
<i>For Schedule 80, Add</i>	16.65	
32 31 13 13-0097 LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	39.05	3.29
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.10	
<i>For Vinyl Coated, Add</i>	19.44	
<i>For Powder Coated, Add</i>	25.92	
<i>For Aluminum Coated, Add</i>	40.50	
<i>For Schedule 20, Deduct</i>	-6.48	
<i>For Schedule 80, Add</i>	16.22	
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	37.62	2.78
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.02	
<i>For Vinyl Coated, Add</i>	19.25	
<i>For Powder Coated, Add</i>	25.66	
<i>For Aluminum Coated, Add</i>	40.10	
<i>For Schedule 20, Deduct</i>	-6.42	
<i>For Schedule 80, Add</i>	15.95	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	36.35	2.27
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.98	
<i>For Vinyl Coated, Add</i>	19.15	
<i>For Powder Coated, Add</i>	25.54	
<i>For Aluminum Coated, Add</i>	39.90	
<i>For Schedule 20, Deduct</i>	-6.38	
<i>For Schedule 80, Add</i>	15.76	
32 31 13 13-0100 LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	36.28	2.27
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.96	
<i>For Vinyl Coated, Add</i>	19.11	
<i>For Powder Coated, Add</i>	25.48	
<i>For Aluminum Coated, Add</i>	39.81	
<i>For Schedule 20, Deduct</i>	-6.37	
<i>For Schedule 80, Add</i>	15.73	
32 31 13 13-0101 LF 4" Outside Diameter Galvanized Steel Post, >24' In Length	34.98	1.64
<i>For Each Top Rail Fitting, Add</i>	2.60	
<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.96	
<i>For Vinyl Coated, Add</i>	19.10	
<i>For Powder Coated, Add</i>	25.46	
<i>For Aluminum Coated, Add</i>	39.79	
<i>For Schedule 20, Deduct</i>	-6.37	
<i>For Schedule 80, Add</i>	15.59	
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) <small>(32 31 13 13-0059)</small>		
<small>Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.</small>		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	81.53	4.42
<i>For Each Top Rail Fitting, Add</i>	4.55	
<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	18.17	
<i>For Vinyl Coated, Add</i>	43.60	
<i>For Powder Coated, Add</i>	58.13	
<i>For Aluminum Coated, Add</i>	90.83	
<i>For Schedule 20, Deduct</i>	-14.53	
<i>For Schedule 80, Add</i>	35.76	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	77.71	3.66
<i>For Each Top Rail Fitting, Add</i>	4.55	
<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.57	
<i>For Vinyl Coated, Add</i>	42.17	
<i>For Powder Coated, Add</i>	56.22	
<i>For Aluminum Coated, Add</i>	87.85	
<i>For Schedule 20, Deduct</i>	-14.06	
<i>For Schedule 80, Add</i>	34.48	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 31 13 13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	75.25	3.03
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.27	
			<i>For Vinyl Coated, Add</i>	41.45	
			<i>For Powder Coated, Add</i>	55.26	
			<i>For Aluminum Coated, Add</i>	86.35	
			<i>For Schedule 20, Deduct</i>	-13.82	
			<i>For Schedule 80, Add</i>	33.78	
	32 31 13 13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	73.41	2.40
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.12	
			<i>For Vinyl Coated, Add</i>	41.09	
			<i>For Powder Coated, Add</i>	54.79	
			<i>For Aluminum Coated, Add</i>	85.61	
			<i>For Schedule 20, Deduct</i>	-13.70	
			<i>For Schedule 80, Add</i>	33.37	
	32 31 13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	72.40	2.15
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.05	
			<i>For Vinyl Coated, Add</i>	40.91	
			<i>For Powder Coated, Add</i>	54.55	
			<i>For Aluminum Coated, Add</i>	85.24	
			<i>For Schedule 20, Deduct</i>	-13.64	
			<i>For Schedule 80, Add</i>	33.15	
	32 31 13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	71.64	1.77
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	17.03	
			<i>For Vinyl Coated, Add</i>	40.88	
			<i>For Powder Coated, Add</i>	54.50	
			<i>For Aluminum Coated, Add</i>	85.16	
			<i>For Schedule 20, Deduct</i>	-13.63	
			<i>For Schedule 80, Add</i>	33.05	
	32 31 13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) <small>(32 31 13 13-0059)</small>		
			Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
	32 31 13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	158.37	4.93
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	37.13	
			<i>For Vinyl Coated, Add</i>	89.11	
			<i>For Powder Coated, Add</i>	118.82	
			<i>For Aluminum Coated, Add</i>	185.65	
			<i>For Schedule 20, Deduct</i>	-29.70	
			<i>For Schedule 80, Add</i>	72.27	
	32 31 13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	152.02	4.17
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	35.95	
			<i>For Vinyl Coated, Add</i>	86.27	
			<i>For Powder Coated, Add</i>	115.02	
			<i>For Aluminum Coated, Add</i>	179.73	
			<i>For Schedule 20, Deduct</i>	-28.76	
			<i>For Schedule 80, Add</i>	69.84	
	32 31 13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	148.24	3.41
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	35.35	
			<i>For Vinyl Coated, Add</i>	84.85	
			<i>For Powder Coated, Add</i>	113.13	
			<i>For Aluminum Coated, Add</i>	176.76	
			<i>For Schedule 20, Deduct</i>	-28.28	
			<i>For Schedule 80, Add</i>	68.56	
	32 31 13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	145.64	2.66
			<i>For Each Top Rail Fitting, Add</i>	7.50	
			<i>For Each Single Barbed Wire Arm, Add</i>	9.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	18.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	35.06	
			<i>For Vinyl Coated, Add</i>	84.13	
			<i>For Powder Coated, Add</i>	112.18	
			<i>For Aluminum Coated, Add</i>	175.28	
			<i>For Schedule 20, Deduct</i>	-28.04	
			<i>For Schedule 80, Add</i>	67.85	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	144.31	2.27
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	34.91	
For Vinyl Coated, Add	83.78	
For Powder Coated, Add	111.70	
For Aluminum Coated, Add	174.54	
For Schedule 20, Deduct	-27.93	
For Schedule 80, Add	67.49	
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	143.41	1.90
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	34.88	
For Vinyl Coated, Add	83.71	
For Powder Coated, Add	111.61	
For Aluminum Coated, Add	174.39	
For Schedule 20, Deduct	-27.90	
For Schedule 80, Add	67.35	
32 31 13 13-0116 Driven Post Supports (32 31 13 13)		
Note: OZ-Post.		
32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	78.74	
Note: OZ-Post GB-700.		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post.....	78.74	
Note: OZ-Post HB-700.		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	80.77	
Note: OZ-Post IS-600.		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	97.09	
Note: OZ-Post ISW-850.		
32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	91.00	
Note: OZ-Post C175-850.		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	87.95	
Note: OZ-Post I2-600.		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	91.61	
Note: OZ-Post I2-850.		
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post.....	97.09	
Note: OZ-Post I25-850.		
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post.....	97.09	
Note: OZ-Post I3-850.		
32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	89.57	
Note: OZ-Post T4-600.		
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	94.04	
Note: OZ-Post T4-850.		
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post.....	101.16	
Note: OZ-Post C4-850.		
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post.....	101.16	
Note: OZ-Post P4-850.		
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post.....	114.37	
Note: OZ-Post T46-850.		
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post.....	123.71	
Note: OZ-Post T6-850.		
32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	89.57	
Note: OZ-Post T4-600.		
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	94.04	
Note: OZ-Post T4-850.		
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post.....	101.16	
Note: OZ-Post P4-850.		
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post.....	102.78	
Note: OZ-Post P4-850.		
32 31 13 13-0140 Chain Link Fence Assemblies (32 31 13 13)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0141	Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts <small>(32 31 13 13-0140)</small>		
	Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0678 for barb wire attachments.		
32 31 13 13-0142	Galvanized <small>(32 31 13 13-0141)</small>		
32 31 13 13-0143	LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	41.24	4.29
	<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.90	
	<i>For 13 Gauge Fabric, Deduct</i>	-8.48	
	<i>For 11 Gauge Fabric, Deduct</i>	-4.96	
	<i>For 6 Gauge Fabric, Add</i>	7.79	
	<i>For 1" Mesh Fabric, Add</i>	10.62	
	<i>For 1-3/4" Mesh Fabric, Add</i>	4.25	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.12	
	<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.83	
	<i>For Posts 8' On Centers, Add</i>	2.26	
	<i>For Posts 5' On Centers, Add</i>	8.52	
	<i>For 3/8" Non-Climbable Mesh, Add</i>	31.89	
	<i>For Up To 100, Add</i>	7.87	
	<i>For >100 To 250, Add</i>	2.90	
	<i>For >2,500 To 5,000, Deduct</i>	-1.45	
	<i>For >5,000, Deduct</i>	-2.90	
32 31 13 13-0144	LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	42.86	4.29
	<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.00	
	<i>For 13 Gauge Fabric, Deduct</i>	-8.95	
	<i>For 11 Gauge Fabric, Deduct</i>	-5.23	
	<i>For 6 Gauge Fabric, Add</i>	8.22	
	<i>For 1" Mesh Fabric, Add</i>	11.21	
	<i>For 1-3/4" Mesh Fabric, Add</i>	4.48	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.24	
	<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.99	
	<i>For Posts 8' On Centers, Add</i>	2.35	
	<i>For Posts 5' On Centers, Add</i>	8.83	
	<i>For 3/8" Non-Climbable Mesh, Add</i>	36.58	
	<i>For Up To 100, Add</i>	8.14	
	<i>For >100 To 250, Add</i>	3.00	
	<i>For >2,500 To 5,000, Deduct</i>	-1.50	
	<i>For >5,000, Deduct</i>	-3.00	
32 31 13 13-0145	LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	44.28	4.29
	<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.08	
	<i>For 13 Gauge Fabric, Deduct</i>	-9.35	
	<i>For 11 Gauge Fabric, Deduct</i>	-5.46	
	<i>For 6 Gauge Fabric, Add</i>	8.59	
	<i>For 1" Mesh Fabric, Add</i>	11.71	
	<i>For 1-3/4" Mesh Fabric, Add</i>	4.68	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.34	
	<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.12	
	<i>For Posts 8' On Centers, Add</i>	2.42	
	<i>For Posts 5' On Centers, Add</i>	9.10	
	<i>For 3/8" Non-Climbable Mesh, Add</i>	41.31	
	<i>For Up To 100, Add</i>	8.38	
	<i>For >100 To 250, Add</i>	3.08	
	<i>For >2,500 To 5,000, Deduct</i>	-1.54	
	<i>For >5,000, Deduct</i>	-3.08	
32 31 13 13-0146	LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	47.60	4.29
	<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.28	
	<i>For 13 Gauge Fabric, Deduct</i>	-10.32	
	<i>For 11 Gauge Fabric, Deduct</i>	-6.03	
	<i>For 6 Gauge Fabric, Add</i>	9.47	
	<i>For 1" Mesh Fabric, Add</i>	12.92	
	<i>For 1-3/4" Mesh Fabric, Add</i>	5.17	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.58	
	<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.44	
	<i>For Posts 8' On Centers, Add</i>	2.59	
	<i>For Posts 5' On Centers, Add</i>	9.73	
	<i>For 3/8" Non-Climbable Mesh, Add</i>	50.14	
	<i>For Up To 100, Add</i>	8.93	
	<i>For >100 To 250, Add</i>	3.28	
	<i>For >2,500 To 5,000, Deduct</i>	-1.64	
	<i>For >5,000, Deduct</i>	-3.28	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0147 LF 6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	51.56	4.29
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.53	
<i>For 13 Gauge Fabric, Deduct</i>	-11.29	
<i>For 11 Gauge Fabric, Deduct</i>	-6.59	
<i>For 6 Gauge Fabric, Add</i>	10.36	
<i>For 1" Mesh Fabric, Add</i>	14.13	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.65	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.83	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.77	
<i>For Posts 8' On Centers, Add</i>	2.81	
<i>For Posts 5' On Centers, Add</i>	10.52	
<i>For 3/8" Non-Climbable Mesh, Add</i>	59.03	
<i>For Up To 100, Add</i>	9.64	
<i>For >100 To 250, Add</i>	3.53	
<i>For >2,500 To 5,000, Deduct</i>	-1.77	
<i>For >5,000, Deduct</i>	-3.53	
32 31 13 13-0148 LF 7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	53.50	6.44
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.67	
<i>For 13 Gauge Fabric, Deduct</i>	-11.71	
<i>For 11 Gauge Fabric, Deduct</i>	-6.84	
<i>For 6 Gauge Fabric, Add</i>	10.75	
<i>For 1" Mesh Fabric, Add</i>	14.66	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.86	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.93	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.91	
<i>For Posts 8' On Centers, Add</i>	2.91	
<i>For Posts 5' On Centers, Add</i>	10.92	
<i>For 3/8" Non-Climbable Mesh, Add</i>	68.06	
<i>For Up To 100, Add</i>	10.01	
<i>For >100 To 250, Add</i>	3.67	
<i>For >2,500 To 5,000, Deduct</i>	-1.83	
<i>For >5,000, Deduct</i>	-3.67	
32 31 13 13-0149 LF 8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	60.69	7.52
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.09	
<i>For 13 Gauge Fabric, Deduct</i>	-13.76	
<i>For 11 Gauge Fabric, Deduct</i>	-8.04	
<i>For 6 Gauge Fabric, Add</i>	12.63	
<i>For 1" Mesh Fabric, Add</i>	17.23	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.89	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.45	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.59	
<i>For Posts 8' On Centers, Add</i>	3.29	
<i>For Posts 5' On Centers, Add</i>	12.30	
<i>For 3/8" Non-Climbable Mesh, Add</i>	77.18	
<i>For Up To 100, Add</i>	11.21	
<i>For >100 To 250, Add</i>	4.09	
<i>For >2,500 To 5,000, Deduct</i>	-2.04	
<i>For >5,000, Deduct</i>	-4.09	
32 31 13 13-0150 LF 9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	64.70	9.66
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.34	
<i>For 13 Gauge Fabric, Deduct</i>	-14.81	
<i>For 11 Gauge Fabric, Deduct</i>	-8.65	
<i>For 6 Gauge Fabric, Add</i>	13.60	
<i>For 1" Mesh Fabric, Add</i>	18.54	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.42	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.71	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.94	
<i>For Posts 8' On Centers, Add</i>	3.50	
<i>For Posts 5' On Centers, Add</i>	13.08	
<i>For 3/8" Non-Climbable Mesh, Add</i>	85.11	
<i>For Up To 100, Add</i>	11.91	
<i>For >100 To 250, Add</i>	4.34	
<i>For >2,500 To 5,000, Deduct</i>	-2.17	
<i>For >5,000, Deduct</i>	-4.34	
32 31 13 13-0151 LF 10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	68.75	10.74
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.59	
<i>For 13 Gauge Fabric, Deduct</i>	-15.86	
<i>For 11 Gauge Fabric, Deduct</i>	-9.27	
<i>For 6 Gauge Fabric, Add</i>	14.56	
<i>For 1" Mesh Fabric, Add</i>	19.86	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.94	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.97	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.30	
<i>For Posts 8' On Centers, Add</i>	3.71	
<i>For Posts 5' On Centers, Add</i>	13.88	
<i>For 3/8" Non-Climbable Mesh, Add</i>	93.33	
<i>For Up To 100, Add</i>	12.62	
<i>For >100 To 250, Add</i>	4.59	
<i>For >2,500 To 5,000, Deduct</i>	-2.30	
<i>For >5,000, Deduct</i>	-4.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	76.32	12.88
		<i>For Each Additional Foot >12, Add</i>	4.25	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	5.07	
		<i>For 13 Gauge Fabric, Deduct</i>	-17.82	
		<i>For 11 Gauge Fabric, Deduct</i>	-10.41	
		<i>For 6 Gauge Fabric, Add</i>	16.36	
		<i>For 1" Mesh Fabric, Add</i>	22.31	
		<i>For 1-3/4" Mesh Fabric, Add</i>	8.92	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.46	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.95	
		<i>For Posts 8' On Centers, Add</i>	4.12	
		<i>For Posts 5' On Centers, Add</i>	15.36	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	101.22	
		<i>For Up To 100, Add</i>	13.95	
		<i>For >100 To 250, Add</i>	5.07	
		<i>For >2,500 To 5,000, Deduct</i>	-2.53	
		<i>For >5,000, Deduct</i>	-5.07	
32 31 13 13-0153		Vinyl Coated <small>(32 31 13 13-0141)</small>		
32 31 13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	45.84	4.29
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.27	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.16	
		<i>For 13 Gauge Fabric, Deduct</i>	-9.90	
		<i>For 11 Gauge Fabric, Deduct</i>	-5.78	
		<i>For 6 Gauge Fabric, Add</i>	9.09	
		<i>For 1" Mesh Fabric, Add</i>	12.39	
		<i>For 1-3/4" Mesh Fabric, Add</i>	4.96	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.48	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.30	
		<i>For Posts 8' On Centers, Add</i>	2.50	
		<i>For Posts 5' On Centers, Add</i>	9.38	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	46.29	
		<i>For Up To 100, Add</i>	8.61	
		<i>For >100 To 250, Add</i>	3.16	
		<i>For >2,500 To 5,000, Deduct</i>	-1.58	
		<i>For >5,000, Deduct</i>	-3.16	
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	49.57	4.29
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.75	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.37	
		<i>For 13 Gauge Fabric, Deduct</i>	-11.00	
		<i>For 11 Gauge Fabric, Deduct</i>	-6.43	
		<i>For 6 Gauge Fabric, Add</i>	10.10	
		<i>For 1" Mesh Fabric, Add</i>	13.77	
		<i>For 1-3/4" Mesh Fabric, Add</i>	5.51	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.75	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.67	
		<i>For Posts 8' On Centers, Add</i>	2.69	
		<i>For Posts 5' On Centers, Add</i>	10.09	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	56.37	
		<i>For Up To 100, Add</i>	9.23	
		<i>For >100 To 250, Add</i>	3.37	
		<i>For >2,500 To 5,000, Deduct</i>	-1.69	
		<i>For >5,000, Deduct</i>	-3.37	
32 31 13 13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	55.57	4.29
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.47	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.73	
		<i>For 13 Gauge Fabric, Deduct</i>	-12.68	
		<i>For 11 Gauge Fabric, Deduct</i>	-7.41	
		<i>For 6 Gauge Fabric, Add</i>	11.64	
		<i>For 1" Mesh Fabric, Add</i>	15.87	
		<i>For 1-3/4" Mesh Fabric, Add</i>	6.35	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.17	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.23	
		<i>For Posts 8' On Centers, Add</i>	3.01	
		<i>For Posts 5' On Centers, Add</i>	11.24	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	66.50	
		<i>For Up To 100, Add</i>	10.24	
		<i>For >100 To 250, Add</i>	3.73	
		<i>For >2,500 To 5,000, Deduct</i>	-1.87	
		<i>For >5,000, Deduct</i>	-3.73	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0157 LF 7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	58.15	6.44
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.75	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.90	
<i>For 13 Gauge Fabric, Deduct</i>	-13.33	
<i>For 11 Gauge Fabric, Deduct</i>	-7.79	
<i>For 6 Gauge Fabric, Add</i>	12.23	
<i>For 1" Mesh Fabric, Add</i>	16.68	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.67	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.34	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.45	
<i>For Posts 8' On Centers, Add</i>	3.15	
<i>For Posts 5' On Centers, Add</i>	11.75	
<i>For 3/8" Non-Climbable Mesh, Add</i>	76.78	
<i>For Up To 100, Add</i>	10.70	
<i>For >100 To 250, Add</i>	3.90	
<i>For >2,500 To 5,000, Deduct</i>	-1.95	
<i>For >5,000, Deduct</i>	-3.90	
32 31 13 13-0158 LF 8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	66.11	7.52
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	6.75	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.36	
<i>For 13 Gauge Fabric, Deduct</i>	-15.64	
<i>For 11 Gauge Fabric, Deduct</i>	-9.14	
<i>For 6 Gauge Fabric, Add</i>	14.36	
<i>For 1" Mesh Fabric, Add</i>	19.58	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.83	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.92	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.22	
<i>For Posts 8' On Centers, Add</i>	3.56	
<i>For Posts 5' On Centers, Add</i>	13.27	
<i>For 3/8" Non-Climbable Mesh, Add</i>	87.15	
<i>For Up To 100, Add</i>	12.03	
<i>For >100 To 250, Add</i>	4.36	
<i>For >2,500 To 5,000, Deduct</i>	-2.18	
<i>For >5,000, Deduct</i>	-4.36	
32 31 13 13-0159 LF 9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	70.52	9.66
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	7.27	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.63	
<i>For 13 Gauge Fabric, Deduct</i>	-16.83	
<i>For 11 Gauge Fabric, Deduct</i>	-9.83	
<i>For 6 Gauge Fabric, Add</i>	15.45	
<i>For 1" Mesh Fabric, Add</i>	21.07	
<i>For 1-3/4" Mesh Fabric, Add</i>	8.43	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.21	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.62	
<i>For Posts 8' On Centers, Add</i>	3.79	
<i>For Posts 5' On Centers, Add</i>	14.13	
<i>For 3/8" Non-Climbable Mesh, Add</i>	96.21	
<i>For Up To 100, Add</i>	12.79	
<i>For >100 To 250, Add</i>	4.63	
<i>For >2,500 To 5,000, Deduct</i>	-2.32	
<i>For >5,000, Deduct</i>	-4.63	
32 31 13 13-0160 LF 10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	74.97	10.74
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	7.78	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.90	
<i>For 13 Gauge Fabric, Deduct</i>	-18.02	
<i>For 11 Gauge Fabric, Deduct</i>	-10.53	
<i>For 6 Gauge Fabric, Add</i>	16.55	
<i>For 1" Mesh Fabric, Add</i>	22.56	
<i>For 1-3/4" Mesh Fabric, Add</i>	9.03	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.51	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-6.02	
<i>For Posts 8' On Centers, Add</i>	4.03	
<i>For Posts 5' On Centers, Add</i>	15.00	
<i>For 3/8" Non-Climbable Mesh, Add</i>	105.55	
<i>For Up To 100, Add</i>	13.56	
<i>For >100 To 250, Add</i>	4.90	
<i>For >2,500 To 5,000, Deduct</i>	-2.45	
<i>For >5,000, Deduct</i>	-4.90	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 31 13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	81.79	12.88
		<i>For Each Additional Foot >12, Add</i>	4.50	
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	8.51	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	5.34	
		<i>For 13 Gauge Fabric, Deduct</i>	-19.72	
		<i>For 11 Gauge Fabric, Deduct</i>	-11.52	
		<i>For 6 Gauge Fabric, Add</i>	18.11	
		<i>For 1" Mesh Fabric, Add</i>	24.69	
		<i>For 1-3/4" Mesh Fabric, Add</i>	9.88	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.94	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-6.58	
		<i>For Posts 8' On Centers, Add</i>	4.39	
		<i>For Posts 5' On Centers, Add</i>	16.35	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	114.47	
		<i>For Up To 100, Add</i>	14.77	
		<i>For >100 To 250, Add</i>	5.34	
		<i>For >2,500 To 5,000, Deduct</i>	-2.67	
		<i>For >5,000, Deduct</i>	-5.34	

32 31 13 13-0162 Rails (32 31 13 13)

Note: Includes rail end fittings.

32 31 13 13-0163 SS-20 Chain Link Fence Rails (32 31 13 13-0162)

Note: Includes tie wires.

32 31 13 13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	7.47	1.39
		<i>For SS15, Deduct</i>	-0.46	
		<i>For SS40, Add</i>	1.14	
32 31 13 13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	9.00	1.39
		<i>For SS40, Add</i>	0.61	
		<i>For Powder Coated, Add</i>	1.22	
		<i>For Aluminum Coated, Add</i>	2.44	
32 31 13 13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	9.24	1.58
		<i>For SS15, Deduct</i>	-0.61	
		<i>For SS40, Add</i>	1.52	
32 31 13 13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	11.29	1.58
		<i>For SS40, Add</i>	0.81	
		<i>For Powder Coated, Add</i>	1.63	
		<i>For Aluminum Coated, Add</i>	3.26	
32 31 13 13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	10.84	1.77
		<i>For SS40, Add</i>	1.83	
32 31 13 13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	13.31	1.77
		<i>For SS40, Add</i>	0.98	
		<i>For Powder Coated, Add</i>	1.95	
		<i>For Aluminum Coated, Add</i>	3.91	

32 31 13 13-0170 Fabric (32 31 13 13)**32 31 13 13-0171 Fabric, Galvanized Chain Link** (32 31 13 13-0170)

32 31 13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.07	2.53
		<i>For 1-1/4" Mesh Fabric, Add</i>	1.08	
		<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.96	
		<i>For 13 Gauge Fabric, Deduct</i>	-1.73	
		<i>For 11 Gauge Fabric, Deduct</i>	-0.96	
		<i>For 6 Gauge Fabric, Add</i>	3.08	
		<i>For 1" Mesh Fabric, Add</i>	2.89	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1.93	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1.16	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.58	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.77	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	33.13	
32 31 13 13-0173	LF	3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.34	2.85
		<i>For 1-1/4" Mesh Fabric, Add</i>	1.26	
		<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.12	
		<i>For 13 Gauge Fabric, Deduct</i>	-2.02	
		<i>For 11 Gauge Fabric, Deduct</i>	-1.12	
		<i>For 6 Gauge Fabric, Add</i>	3.59	
		<i>For 1" Mesh Fabric, Add</i>	3.37	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2.25	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1.35	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.67	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.90	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	37.91	
32 31 13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.41	3.15
		<i>For 1-1/4" Mesh Fabric, Add</i>	1.38	
		<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.24	
		<i>For 13 Gauge Fabric, Deduct</i>	-2.22	
		<i>For 11 Gauge Fabric, Deduct</i>	-1.24	
		<i>For 6 Gauge Fabric, Add</i>	3.95	
		<i>For 1" Mesh Fabric, Add</i>	3.71	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2.47	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1.48	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.74	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.99	
		<i>For 3/8" Non-Climbable Mesh, Add</i>	42.72	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	16.26	3.79
For 1-1/4" Mesh Fabric, Add	1.72	
For 2 Oz Galvanized Or Zinc Coating, Add	1.54	
For 13 Gauge Fabric, Deduct	-2.77	
For 11 Gauge Fabric, Deduct	-1.54	
For 6 Gauge Fabric, Add	4.93	
For 1" Mesh Fabric, Add	4.62	
For 1-1/4" Mesh Fabric, Add	3.08	
For 1-3/4" Mesh Fabric, Add	1.85	
For 2-1/8" Mesh Fabric, Deduct	-0.92	
For 2-3/8" Mesh Fabric, Deduct	-1.23	
For 3/8" Non-Climbable Mesh, Add	51.64	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	18.23	4.42
For 1-1/4" Mesh Fabric, Add	2.07	
For 2 Oz Galvanized Or Zinc Coating, Add	1.85	
For 13 Gauge Fabric, Deduct	-3.33	
For 11 Gauge Fabric, Deduct	-1.85	
For 6 Gauge Fabric, Add	5.92	
For 1" Mesh Fabric, Add	5.55	
For 1-1/4" Mesh Fabric, Add	3.70	
For 1-3/4" Mesh Fabric, Add	2.22	
For 2-1/8" Mesh Fabric, Deduct	-1.11	
For 2-3/8" Mesh Fabric, Deduct	-1.48	
For 3/8" Non-Climbable Mesh, Add	60.66	
32 31 13 13-0177 LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	20.27	5.05
For 1-1/4" Mesh Fabric, Add	2.41	
For 2 Oz Galvanized Or Zinc Coating, Add	2.15	
For 13 Gauge Fabric, Deduct	-3.87	
For 11 Gauge Fabric, Deduct	-2.15	
For 6 Gauge Fabric, Add	6.89	
For 1" Mesh Fabric, Add	6.46	
For 1-1/4" Mesh Fabric, Add	4.31	
For 1-3/4" Mesh Fabric, Add	2.58	
For 2-1/8" Mesh Fabric, Deduct	-1.29	
For 2-3/8" Mesh Fabric, Deduct	-1.72	
For 3/8" Non-Climbable Mesh, Add	69.80	
32 31 13 13-0178 LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	22.48	6.32
For 1-1/4" Mesh Fabric, Add	2.76	
For 2 Oz Galvanized Or Zinc Coating, Add	2.46	
For 13 Gauge Fabric, Deduct	-4.43	
For 11 Gauge Fabric, Deduct	-2.46	
For 6 Gauge Fabric, Add	7.88	
For 1" Mesh Fabric, Add	7.39	
For 1-1/4" Mesh Fabric, Add	4.93	
For 1-3/4" Mesh Fabric, Add	2.96	
For 2-1/8" Mesh Fabric, Deduct	-1.48	
For 2-3/8" Mesh Fabric, Deduct	-1.97	
For 3/8" Non-Climbable Mesh, Add	79.08	
32 31 13 13-0179 LF 10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	26.74	6.95
For 1-1/4" Mesh Fabric, Add	3.58	
For 2 Oz Galvanized Or Zinc Coating, Add	3.20	
For 13 Gauge Fabric, Deduct	-5.76	
For 11 Gauge Fabric, Deduct	-3.20	
For 6 Gauge Fabric, Add	10.24	
For 1" Mesh Fabric, Add	9.60	
For 1-1/4" Mesh Fabric, Add	6.40	
For 1-3/4" Mesh Fabric, Add	3.84	
For 2-1/8" Mesh Fabric, Deduct	-1.92	
For 2-3/8" Mesh Fabric, Deduct	-2.56	
For 3/8" Non-Climbable Mesh, Add	95.42	
32 31 13 13-0180 LF 12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	30.50	7.58
For 1-1/4" Mesh Fabric, Add	4.30	
For 2 Oz Galvanized Or Zinc Coating, Add	3.84	
For 13 Gauge Fabric, Deduct	-6.90	
For 11 Gauge Fabric, Deduct	-3.84	
For 6 Gauge Fabric, Add	12.27	
For 1" Mesh Fabric, Add	11.51	
For 1-1/4" Mesh Fabric, Add	7.67	
For 1-3/4" Mesh Fabric, Add	4.60	
For 2-1/8" Mesh Fabric, Deduct	-2.30	
For 2-3/8" Mesh Fabric, Deduct	-3.07	
For 3/8" Non-Climbable Mesh, Add	103.49	
32 31 13 13-0181 LF 14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	34.17	8.85
For 1-1/4" Mesh Fabric, Add	4.61	
For 2 Oz Galvanized Or Zinc Coating, Add	4.12	
For 13 Gauge Fabric, Deduct	-7.42	
For 11 Gauge Fabric, Deduct	-4.12	
For 6 Gauge Fabric, Add	13.18	
For 1" Mesh Fabric, Add	12.36	
For 1-1/4" Mesh Fabric, Add	8.24	
For 1-3/4" Mesh Fabric, Add	4.94	
For 2-1/8" Mesh Fabric, Deduct	-2.47	
For 2-3/8" Mesh Fabric, Deduct	-3.30	
For 3/8" Non-Climbable Mesh, Add	112.89	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0182	LF 16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	37.83	10.10
	For 1-1/4" Mesh Fabric, Add	4.93	
	For 2 Oz Galvanized Or Zinc Coating, Add	4.40	
	For 13 Gauge Fabric, Deduct	-7.92	
	For 11 Gauge Fabric, Deduct	-4.40	
	For 6 Gauge Fabric, Add	14.09	
	For 1" Mesh Fabric, Add	13.21	
	For 1-1/4" Mesh Fabric, Add	8.81	
	For 1-3/4" Mesh Fabric, Add	5.28	
	For 2-1/8" Mesh Fabric, Deduct	-2.64	
	For 2-3/8" Mesh Fabric, Deduct	-3.52	
	For 3/8" Non-Climbable Mesh, Add	122.29	
32 31 13 13-0183	SF >16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	2.37	0.60
	For 1-1/4" Mesh Fabric, Add	0.31	
	For 2 Oz Galvanized Or Zinc Coating, Add	0.28	
	For 13 Gauge Fabric, Deduct	-0.50	
	For 11 Gauge Fabric, Deduct	-0.28	
	For 6 Gauge Fabric, Add	0.88	
	For 1" Mesh Fabric, Add	0.83	
	For 1-1/4" Mesh Fabric, Add	0.55	
	For 1-3/4" Mesh Fabric, Add	0.33	
	For 2-1/8" Mesh Fabric, Deduct	-0.17	
	For 2-3/8" Mesh Fabric, Deduct	-0.22	
32 31 13 13-0184	Fabric, Vinyl Coated Chain Link (32 31 13 13-0170)		
32 31 13 13-0185	LF 4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	15.97	2.53
	For 1-1/4" Mesh Fabric, Add	1.82	
	For 13 Gauge Fabric, Deduct	-2.93	
	For 11 Gauge Fabric, Deduct	-1.63	
	For 6 Gauge Fabric, Add	5.20	
	For 1" Mesh Fabric, Add	4.88	
	For 1-1/4" Mesh Fabric, Add	3.25	
	For 1-3/4" Mesh Fabric, Add	1.95	
	For 2-1/8" Mesh Fabric, Deduct	-0.98	
	For 2-3/8" Mesh Fabric, Deduct	-1.30	
	For 3/8" Non-Climbable Mesh, Add	47.70	
	For Aluminum Coated, Add	2.60	
32 31 13 13-0186	LF 5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	18.23	3.79
	For 1-1/4" Mesh Fabric, Add	2.28	
	For 13 Gauge Fabric, Deduct	-3.66	
	For 11 Gauge Fabric, Deduct	-2.03	
	For 6 Gauge Fabric, Add	6.50	
	For 1" Mesh Fabric, Add	6.10	
	For 1-1/4" Mesh Fabric, Add	4.07	
	For 1-3/4" Mesh Fabric, Add	2.44	
	For 2-1/8" Mesh Fabric, Deduct	-1.22	
	For 2-3/8" Mesh Fabric, Deduct	-1.63	
	For 3/8" Non-Climbable Mesh, Add	57.87	
	For Aluminum Coated, Add	3.25	
32 31 13 13-0187	LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	22.23	4.42
	For 1-1/4" Mesh Fabric, Add	3.19	
	For 13 Gauge Fabric, Deduct	-5.13	
	For 11 Gauge Fabric, Deduct	-2.85	
	For 6 Gauge Fabric, Add	9.12	
	For 1" Mesh Fabric, Add	8.55	
	For 1-1/4" Mesh Fabric, Add	5.70	
	For 1-3/4" Mesh Fabric, Add	3.42	
	For 2-1/8" Mesh Fabric, Deduct	-1.71	
	For 2-3/8" Mesh Fabric, Deduct	-2.28	
	For 3/8" Non-Climbable Mesh, Add	68.13	
	For Aluminum Coated, Add	4.56	
32 31 13 13-0188	LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	24.93	5.05
	For 1-1/4" Mesh Fabric, Add	3.72	
	For 13 Gauge Fabric, Deduct	-5.97	
	For 11 Gauge Fabric, Deduct	-3.32	
	For 6 Gauge Fabric, Add	10.62	
	For 1" Mesh Fabric, Add	9.95	
	For 1-1/4" Mesh Fabric, Add	6.64	
	For 1-3/4" Mesh Fabric, Add	3.98	
	For 2-1/8" Mesh Fabric, Deduct	-1.99	
	For 2-3/8" Mesh Fabric, Deduct	-2.65	
	For 3/8" Non-Climbable Mesh, Add	78.52	
	For Aluminum Coated, Add	5.31	
32 31 13 13-0189	LF 8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	27.91	6.32
	For 1-1/4" Mesh Fabric, Add	4.28	
	For 13 Gauge Fabric, Deduct	-6.88	
	For 11 Gauge Fabric, Deduct	-3.82	
	For 6 Gauge Fabric, Add	12.22	
	For 1" Mesh Fabric, Add	11.46	
	For 1-1/4" Mesh Fabric, Add	7.64	
	For 1-3/4" Mesh Fabric, Add	4.58	
	For 2-1/8" Mesh Fabric, Deduct	-2.29	
	For 2-3/8" Mesh Fabric, Deduct	-3.06	
	For 3/8" Non-Climbable Mesh, Add	89.05	
	For Aluminum Coated, Add	6.11	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0190 LF 10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	32.96	6.95
For 1-1/4" Mesh Fabric, Add	5.33	
For 13 Gauge Fabric, Deduct	-8.56	
For 11 Gauge Fabric, Deduct	-4.76	
For 6 Gauge Fabric, Add	15.22	
For 1" Mesh Fabric, Add	14.27	
For 1-1/4" Mesh Fabric, Add	9.51	
For 1-3/4" Mesh Fabric, Add	5.71	
For 2-1/8" Mesh Fabric, Deduct	-2.85	
For 2-3/8" Mesh Fabric, Deduct	-3.80	
For 3/8" Non-Climbable Mesh, Add	107.64	
For Aluminum Coated, Add	7.61	
32 31 13 13-0191 LF 12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	35.96	7.58
For 1-1/4" Mesh Fabric, Add	5.82	
For 13 Gauge Fabric, Deduct	-9.36	
For 11 Gauge Fabric, Deduct	-5.20	
For 6 Gauge Fabric, Add	16.64	
For 1" Mesh Fabric, Add	15.60	
For 1-1/4" Mesh Fabric, Add	10.40	
For 1-3/4" Mesh Fabric, Add	6.24	
For 2-1/8" Mesh Fabric, Deduct	-3.12	
For 2-3/8" Mesh Fabric, Deduct	-4.16	
For 3/8" Non-Climbable Mesh, Add	116.74	
For Aluminum Coated, Add	8.32	
32 31 13 13-0192 LF 14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	40.59	8.85
For 1-1/4" Mesh Fabric, Add	6.41	
For 13 Gauge Fabric, Deduct	-10.31	
For 11 Gauge Fabric, Deduct	-5.73	
For 6 Gauge Fabric, Add	18.32	
For 1" Mesh Fabric, Add	17.18	
For 1-1/4" Mesh Fabric, Add	11.45	
For 1-3/4" Mesh Fabric, Add	6.87	
For 2-1/8" Mesh Fabric, Deduct	-3.44	
For 2-3/8" Mesh Fabric, Deduct	-4.58	
For 3/8" Non-Climbable Mesh, Add	127.17	
For Aluminum Coated, Add	9.16	
32 31 13 13-0193 LF 16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	45.31	10.10
For 1-1/4" Mesh Fabric, Add	7.03	
For 13 Gauge Fabric, Deduct	-11.29	
For 11 Gauge Fabric, Deduct	-6.27	
For 6 Gauge Fabric, Add	20.07	
For 1" Mesh Fabric, Add	18.82	
For 1-1/4" Mesh Fabric, Add	12.55	
For 1-3/4" Mesh Fabric, Add	7.53	
For 2-1/8" Mesh Fabric, Deduct	-3.76	
For 2-3/8" Mesh Fabric, Deduct	-5.02	
For 3/8" Non-Climbable Mesh, Add	137.60	
For Aluminum Coated, Add	10.04	
32 31 13 13-0194 SF >16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	2.84	0.60
For 1-1/4" Mesh Fabric, Add	0.44	
For 13 Gauge Fabric, Deduct	-0.71	
For 11 Gauge Fabric, Deduct	-0.39	
For 6 Gauge Fabric, Add	1.26	
For 1" Mesh Fabric, Add	1.18	
For 1-1/4" Mesh Fabric, Add	0.79	
For 1-3/4" Mesh Fabric, Add	0.47	
For 2-1/8" Mesh Fabric, Deduct	-0.24	
For 2-3/8" Mesh Fabric, Deduct	-0.31	
For Aluminum Coated, Add	0.63	
32 31 13 13-0195 Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)		
32 31 13 13-0196 LF 3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.60	2.53
For 6 Gauge Fabric, Add	2.70	
For 1" Mesh Fabric, Add	3.55	
32 31 13 13-0197 LF 3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.77	2.85
For 6 Gauge Fabric, Add	3.14	
For 1" Mesh Fabric, Add	4.12	
32 31 13 13-0198 LF 4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.96	3.15
For 6 Gauge Fabric, Add	3.59	
For 1" Mesh Fabric, Add	4.71	
32 31 13 13-0199 LF 5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	15.71	3.79
For 6 Gauge Fabric, Add	4.49	
For 1" Mesh Fabric, Add	5.89	
32 31 13 13-0200 LF 6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	17.54	4.42
For 6 Gauge Fabric, Add	5.37	
For 1" Mesh Fabric, Add	7.05	
32 31 13 13-0201 LF 7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	19.51	5.05
For 6 Gauge Fabric, Add	6.28	
For 1" Mesh Fabric, Add	8.24	
32 31 13 13-0202 LF 8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	21.59	6.32
For 6 Gauge Fabric, Add	7.17	
For 1" Mesh Fabric, Add	9.41	
32 31 13 13-0203 LF 10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	25.14	6.95
For 6 Gauge Fabric, Add	8.96	
For 1" Mesh Fabric, Add	11.76	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0204	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.60 10.75 14.11	7.58
32 31 13	13-0205		Fabric, All Aluminum Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13	13-0206	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.05 7.06 9.27	2.53
32 31 13	13-0207	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.15 8.24 10.82	2.85
32 31 13	13-0208	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.24 9.42 12.36	3.15
32 31 13	13-0209	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.81 11.77 15.45	3.79
32 31 13	13-0210	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.49 14.13 18.54	4.42
32 31 13	13-0211	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	32.26 16.48 21.63	5.05
32 31 13	13-0212	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	36.17 18.83 24.72	6.32
32 31 13	13-0213	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	43.37 23.54 30.90	6.95
32 31 13	13-0214	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	50.47 28.25 37.08	7.58
32 31 13	13-0215		Fence Inserts <small>(32 31 13 13-0170)</small>		
			Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13	13-0216		Vinyl Plastic Fence Inserts <small>(32 31 13 13-0215)</small>		
			Note: Assorted colors.		
32 31 13	13-0217	LF	3' High Fence, Vinyl Plastic Fence Insert.....	9.60	
32 31 13	13-0218	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	10.95	
32 31 13	13-0219	LF	4' High Fence, Vinyl Plastic Fence Insert.....	12.08	
32 31 13	13-0220	LF	5' High Fence, Vinyl Plastic Fence Insert.....	15.14	
32 31 13	13-0221	LF	6' High Fence, Vinyl Plastic Fence Insert.....	18.11	
32 31 13	13-0222	LF	7' High Fence, Vinyl Plastic Fence Insert.....	21.19	
32 31 13	13-0223	LF	8' High Fence, Vinyl Plastic Fence Insert.....	24.15	
32 31 13	13-0224	LF	10' High Fence, Vinyl Plastic Fence Insert.....	29.43	
32 31 13	13-0225		Aluminum Fence Inserts <small>(32 31 13 13-0215)</small>		
			Note: Assorted colors.		
32 31 13	13-0226	LF	3' High Fence, Aluminum Fence Insert.....	33.70	
32 31 13	13-0227	LF	3-1/2' High Fence, Aluminum Fence Insert.....	36.95	
32 31 13	13-0228	LF	4' High Fence, Aluminum Fence Insert.....	41.93	
32 31 13	13-0229	LF	5' High Fence, Aluminum Fence Insert.....	52.47	
32 31 13	13-0230	LF	6' High Fence, Aluminum Fence Insert.....	62.95	
32 31 13	13-0231	LF	7' High Fence, Aluminum Fence Insert.....	68.36	
32 31 13	13-0232	LF	8' High Fence, Aluminum Fence Insert.....	83.93	
32 31 13	13-0233	LF	10' High Fence, Aluminum Fence Insert.....	104.54	
32 31 13	13-0234		Redwood Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13	13-0235	LF	4' High Fence, Redwood Fence Insert.....	14.33	
32 31 13	13-0236	LF	5' High Fence, Redwood Fence Insert.....	18.13	
32 31 13	13-0237	LF	6' High Fence, Redwood Fence Insert.....	21.77	
32 31 13	13-0238	LF	7' High Fence, Redwood Fence Insert.....	25.34	
32 31 13	13-0239	LF	8' High Fence, Redwood Fence Insert.....	28.99	
32 31 13	13-0240		Diagonal Flexible Polyethylene Inserts <small>(32 31 13 13-0215)</small>		
32 31 13	13-0241	SF	Diagonal Polyethylene Fence Weave.....	3.82	
32 31 13	13-0242		Hedge Link Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13	13-0243	LF	3' High Fence, Hedge Link Fence Insert.....	20.59	
32 31 13	13-0244	LF	3-1/2' High Fence, Hedge Link Fence Insert.....	23.45	
32 31 13	13-0245	LF	4' High Fence, Hedge Link Fence Insert.....	27.45	
32 31 13	13-0246	LF	5' High Fence, Hedge Link Fence Insert.....	33.85	
32 31 13	13-0247	LF	6' High Fence, Hedge Link Fence Insert.....	38.69	
32 31 13	13-0248	LF	7' High Fence, Hedge Link Fence Insert.....	48.94	
32 31 13	13-0249	LF	8' High Fence, Hedge Link Fence Insert.....	55.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0250 LF 10' High Fence, Hedge Link Fence Insert.....	66.44	
32 31 13 13-0251 LF 12' High Fence, Hedge Link Fence Insert.....	76.22	
32 31 13 13-0252 Fence Windscreen Fabric <small>(32 31 13 13-0170)</small>		
Note: Includes plastic wire clips.		
32 31 13 13-0253 SF Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY	1.29	0.57
For Sewn Boxed Vent (Each), Add	28.17	
For Welded Boxed Vent (Each), Add	14.09	
For 4' x 4' One Color Logo (Each), Add	586.95	
32 31 13 13-0254 Non-Climbable Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0255 LF 3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	33.13	2.53
For 11 Gauge, Deduct	-4.98	
For 10 Gauge, Deduct	-1.99	
For 7 Gauge, Add	2.99	
For 6 Gauge, Add	6.97	
For 1/2" Mesh Fabric, Deduct	-1.25	
For 5/8" Mesh Fabric, Deduct	-2.74	
For 3/4" Mesh Fabric, Deduct	-3.99	
32 31 13 13-0256 LF 3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	37.91	2.85
For 11 Gauge, Deduct	-5.81	
For 10 Gauge, Deduct	-2.32	
For 7 Gauge, Add	3.49	
For 6 Gauge, Add	8.14	
For 1/2" Mesh Fabric, Deduct	-1.45	
For 5/8" Mesh Fabric, Deduct	-3.20	
For 3/4" Mesh Fabric, Deduct	-4.65	
32 31 13 13-0257 LF 4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	42.72	3.15
For 11 Gauge, Deduct	-6.65	
For 10 Gauge, Deduct	-2.66	
For 7 Gauge, Add	3.99	
For 6 Gauge, Add	9.31	
For 1/2" Mesh Fabric, Deduct	-1.66	
For 5/8" Mesh Fabric, Deduct	-3.66	
For 3/4" Mesh Fabric, Deduct	-5.32	
32 31 13 13-0258 LF 5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	51.64	3.79
For 11 Gauge, Deduct	-8.31	
For 10 Gauge, Deduct	-3.32	
For 7 Gauge, Add	4.98	
For 6 Gauge, Add	11.63	
For 1/2" Mesh Fabric, Deduct	-2.08	
For 5/8" Mesh Fabric, Deduct	-4.57	
For 3/4" Mesh Fabric, Deduct	-6.65	
32 31 13 13-0259 LF 6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	60.66	4.42
For 11 Gauge, Deduct	-9.97	
For 10 Gauge, Deduct	-3.99	
For 7 Gauge, Add	5.98	
For 6 Gauge, Add	13.95	
For 1/2" Mesh Fabric, Deduct	-2.49	
For 5/8" Mesh Fabric, Deduct	-5.48	
For 3/4" Mesh Fabric, Deduct	-7.97	
32 31 13 13-0260 LF 7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	69.80	5.05
For 11 Gauge, Deduct	-11.63	
For 10 Gauge, Deduct	-4.65	
For 7 Gauge, Add	6.98	
For 6 Gauge, Add	16.28	
For 1/2" Mesh Fabric, Deduct	-2.91	
For 5/8" Mesh Fabric, Deduct	-6.40	
For 3/4" Mesh Fabric, Deduct	-9.30	
32 31 13 13-0261 LF 8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	79.08	6.32
For 11 Gauge, Deduct	-13.29	
For 10 Gauge, Deduct	-5.32	
For 7 Gauge, Add	7.97	
For 6 Gauge, Add	18.61	
For 1/2" Mesh Fabric, Deduct	-3.32	
For 5/8" Mesh Fabric, Deduct	-7.31	
For 3/4" Mesh Fabric, Deduct	-10.63	
32 31 13 13-0262 LF 9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	87.23	6.63
For 11 Gauge, Deduct	-14.79	
For 10 Gauge, Deduct	-5.92	
For 7 Gauge, Add	8.88	
For 6 Gauge, Add	20.71	
For 1/2" Mesh Fabric, Deduct	-3.70	
For 5/8" Mesh Fabric, Deduct	-8.14	
For 3/4" Mesh Fabric, Deduct	-11.83	
32 31 13 13-0263 LF 10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	95.42	6.95
For 11 Gauge, Deduct	-16.30	
For 10 Gauge, Deduct	-6.52	
For 7 Gauge, Add	9.78	
For 6 Gauge, Add	22.81	
For 1/2" Mesh Fabric, Deduct	-4.07	
For 5/8" Mesh Fabric, Deduct	-8.96	
For 3/4" Mesh Fabric, Deduct	-13.04	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0264	LF 12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	103.49	7.58
	For 11 Gauge, Deduct	-17.67	
	For 10 Gauge, Deduct	-7.07	
	For 7 Gauge, Add	10.60	
	For 6 Gauge, Add	24.73	
	For 1/2" Mesh Fabric, Deduct	-4.42	
	For 5/8" Mesh Fabric, Deduct	-9.72	
	For 3/4" Mesh Fabric, Deduct	-14.13	
32 31 13 13-0265	Gates <small>(32 31 13 13)</small>		
	Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0266	Galvanized Steel Without Barbed Wire <small>(32 31 13 13-0265)</small>		
	Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0267	4' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0268	EA 3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	362.89	24.37
	For Gate With Single Barb Wire Arm, Add	31.54	
	For Gate With Double Barb Wire Arm, Add	45.88	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.77	
	For Aluminized Steel Gate And Post, Add	137.64	
	For Powder Coated Gate And Post, Add	74.56	
	For 1" Mesh Fabric, Add	124.74	
	For 1-1/4" Mesh Fabric, Add	80.29	
	For 1-3/4" Mesh Fabric, Add	49.89	
	For 2-1/8" Mesh Fabric, Deduct	-24.95	
32 31 13 13-0269	EA 4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	458.47	25.38
	For Gate With Single Barb Wire Arm, Add	42.06	
	For Gate With Double Barb Wire Arm, Add	61.17	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.69	
	For Aluminized Steel Gate And Post, Add	183.52	
	For Powder Coated Gate And Post, Add	99.41	
	For 1" Mesh Fabric, Add	166.31	
	For 1-1/4" Mesh Fabric, Add	107.05	
	For 1-3/4" Mesh Fabric, Add	66.53	
	For 2-1/8" Mesh Fabric, Deduct	-33.26	
32 31 13 13-0270	EA 5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	542.82	27.01
	For Gate With Single Barb Wire Arm, Add	50.78	
	For Gate With Double Barb Wire Arm, Add	73.86	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.55	
	For Aluminized Steel Gate And Post, Add	221.57	
	For Powder Coated Gate And Post, Add	120.02	
	For 1" Mesh Fabric, Add	200.80	
	For 1-1/4" Mesh Fabric, Add	129.25	
	For 1-3/4" Mesh Fabric, Add	80.32	
	For 2-1/8" Mesh Fabric, Deduct	-40.16	
32 31 13 13-0271	EA 6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	638.34	32.48
	For Gate With Single Barb Wire Arm, Add	59.49	
	For Gate With Double Barb Wire Arm, Add	86.54	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.41	
	For Aluminized Steel Gate And Post, Add	259.61	
	For Powder Coated Gate And Post, Add	140.62	
	For 1" Mesh Fabric, Add	235.27	
	For 1-1/4" Mesh Fabric, Add	151.44	
	For 1-3/4" Mesh Fabric, Add	94.11	
	For 2-1/8" Mesh Fabric, Deduct	-47.05	
32 31 13 13-0272	EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	733.85	37.87
	For Gate With Single Barb Wire Arm, Add	68.21	
	For Gate With Double Barb Wire Arm, Add	99.22	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.27	
	For Aluminized Steel Gate And Post, Add	297.66	
	For Powder Coated Gate And Post, Add	161.23	
	For 1" Mesh Fabric, Add	269.76	
	For 1-1/4" Mesh Fabric, Add	173.64	
	For 1-3/4" Mesh Fabric, Add	107.90	
	For 2-1/8" Mesh Fabric, Deduct	-53.95	
32 31 13 13-0273	EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	832.60	43.25
	For Gate With Single Barb Wire Arm, Add	77.29	
	For Gate With Double Barb Wire Arm, Add	112.42	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.75	
	For Aluminized Steel Gate And Post, Add	337.27	
	For Powder Coated Gate And Post, Add	182.69	
	For 1" Mesh Fabric, Add	305.65	
	For 1-1/4" Mesh Fabric, Add	196.74	
	For 1-3/4" Mesh Fabric, Add	122.26	
	For 2-1/8" Mesh Fabric, Deduct	-61.13	



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0274 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	928.11	48.73
For Gate With Single Barb Wire Arm, Add	86.01	
For Gate With Double Barb Wire Arm, Add	125.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.61	
For Aluminized Steel Gate And Post, Add	375.32	
For Powder Coated Gate And Post, Add	203.30	
For 1" Mesh Fabric, Add	340.14	
For 1-1/4" Mesh Fabric, Add	218.94	
For 1-3/4" Mesh Fabric, Add	136.05	
For 2-1/8" Mesh Fabric, Deduct	-68.03	
32 31 13 13-0275 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,025.00	54.11
For Gate With Single Barb Wire Arm, Add	94.88	
For Gate With Double Barb Wire Arm, Add	138.01	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.73	
For Aluminized Steel Gate And Post, Add	414.04	
For Powder Coated Gate And Post, Add	224.27	
For 1" Mesh Fabric, Add	375.22	
For 1-1/4" Mesh Fabric, Add	241.52	
For 1-3/4" Mesh Fabric, Add	150.09	
For 2-1/8" Mesh Fabric, Deduct	-75.04	
32 31 13 13-0276 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,309.43	54.11
For Gate With Single Barb Wire Arm, Add	126.17	
For Gate With Double Barb Wire Arm, Add	183.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.06	
For Aluminized Steel Gate And Post, Add	550.56	
For Powder Coated Gate And Post, Add	298.22	
For 1" Mesh Fabric, Add	498.95	
For 1-1/4" Mesh Fabric, Add	321.16	
For 1-3/4" Mesh Fabric, Add	199.58	
For 2-1/8" Mesh Fabric, Deduct	-99.79	
32 31 13 13-0277 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,550.44	57.97
For Gate With Single Barb Wire Arm, Add	151.40	
For Gate With Double Barb Wire Arm, Add	220.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.08	
For Aluminized Steel Gate And Post, Add	660.67	
For Powder Coated Gate And Post, Add	357.86	
For 1" Mesh Fabric, Add	598.73	
For 1-1/4" Mesh Fabric, Add	385.39	
For 1-3/4" Mesh Fabric, Add	239.49	
For 2-1/8" Mesh Fabric, Deduct	-119.75	
32 31 13 13-0278 EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,793.23	62.44
For Gate With Single Barb Wire Arm, Add	176.64	
For Gate With Double Barb Wire Arm, Add	256.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-301.09	
For Aluminized Steel Gate And Post, Add	770.78	
For Powder Coated Gate And Post, Add	417.51	
For 1" Mesh Fabric, Add	698.52	
For 1-1/4" Mesh Fabric, Add	449.62	
For 1-3/4" Mesh Fabric, Add	279.41	
For 2-1/8" Mesh Fabric, Deduct	-139.70	
32 31 13 13-0279 EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,038.24	67.61
For Gate With Single Barb Wire Arm, Add	201.87	
For Gate With Double Barb Wire Arm, Add	293.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-344.10	
For Aluminized Steel Gate And Post, Add	880.90	
For Powder Coated Gate And Post, Add	477.15	
For 1" Mesh Fabric, Add	798.31	
For 1-1/4" Mesh Fabric, Add	513.86	
For 1-3/4" Mesh Fabric, Add	319.32	
For 2-1/8" Mesh Fabric, Deduct	-159.66	
32 31 13 13-0280 EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,320.52	85.18
For Gate With Single Barb Wire Arm, Add	227.11	
For Gate With Double Barb Wire Arm, Add	330.34	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-387.11	
For Aluminized Steel Gate And Post, Add	991.01	
For Powder Coated Gate And Post, Add	536.80	
For 1" Mesh Fabric, Add	898.10	
For 1-1/4" Mesh Fabric, Add	578.09	
For 1-3/4" Mesh Fabric, Add	359.24	
For 2-1/8" Mesh Fabric, Deduct	-179.62	
32 31 13 13-0281 EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,568.19	91.29
For Gate With Single Barb Wire Arm, Add	252.34	
For Gate With Double Barb Wire Arm, Add	367.04	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-430.13	
For Aluminized Steel Gate And Post, Add	1,101.12	
For Powder Coated Gate And Post, Add	596.44	
For 1" Mesh Fabric, Add	997.89	
For 1-1/4" Mesh Fabric, Add	642.32	
For 1-3/4" Mesh Fabric, Add	399.16	
For 2-1/8" Mesh Fabric, Deduct	-199.58	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0282	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,813.09	98.36
			<i>For Gate With Single Barb Wire Arm, Add</i>	276.96	
			<i>For Gate With Double Barb Wire Arm, Add</i>	402.85	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-472.09	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,208.54	
			<i>For Powder Coated Gate And Post, Add</i>	654.63	
			<i>For 1" Mesh Fabric, Add</i>	1,095.24	
			<i>For 1-1/4" Mesh Fabric, Add</i>	704.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	438.10	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-219.05	
32 31 13	13-0283	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,061.50	106.52
			<i>For Gate With Single Barb Wire Arm, Add</i>	301.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	438.66	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-514.05	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,315.97	
			<i>For Powder Coated Gate And Post, Add</i>	712.82	
			<i>For 1" Mesh Fabric, Add</i>	1,192.60	
			<i>For 1-1/4" Mesh Fabric, Add</i>	767.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	477.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-238.52	
32 31 13	13-0284	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,314.39	116.24
			<i>For Gate With Single Barb Wire Arm, Add</i>	326.20	
			<i>For Gate With Double Barb Wire Arm, Add</i>	474.47	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-556.01	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,423.40	
			<i>For Powder Coated Gate And Post, Add</i>	771.01	
			<i>For 1" Mesh Fabric, Add</i>	1,289.95	
			<i>For 1-1/4" Mesh Fabric, Add</i>	830.31	
			<i>For 1-3/4" Mesh Fabric, Add</i>	515.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-257.99	
32 31 13	13-0285	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,489.16	127.87
			<i>For Gate With Single Barb Wire Arm, Add</i>	341.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	496.85	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-582.24	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,490.54	
			<i>For Powder Coated Gate And Post, Add</i>	807.38	
			<i>For 1" Mesh Fabric, Add</i>	1,350.80	
			<i>For 1-1/4" Mesh Fabric, Add</i>	869.48	
			<i>For 1-3/4" Mesh Fabric, Add</i>	540.32	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-270.16	
32 31 13	13-0286	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,867.53	142.03
			<i>For Gate With Single Barb Wire Arm, Add</i>	378.51	
			<i>For Gate With Double Barb Wire Arm, Add</i>	550.56	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-645.19	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,651.68	
			<i>For Powder Coated Gate And Post, Add</i>	894.66	
			<i>For 1" Mesh Fabric, Add</i>	1,496.84	
			<i>For 1-1/4" Mesh Fabric, Add</i>	963.48	
			<i>For 1-3/4" Mesh Fabric, Add</i>	598.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-299.37	
32 31 13	13-0287		5' Fence Height <small>(32 31 13 13-0286)</small>		
32 31 13	13-0288	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	435.58	27.01
			<i>For Gate With Single Barb Wire Arm, Add</i>	38.98	
			<i>For Gate With Double Barb Wire Arm, Add</i>	56.70	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-66.44	
			<i>For Aluminized Steel Gate And Post, Add</i>	170.09	
			<i>For Powder Coated Gate And Post, Add</i>	92.13	
			<i>For 1" Mesh Fabric, Add</i>	154.15	
			<i>For 1-1/4" Mesh Fabric, Add</i>	99.22	
			<i>For 1-3/4" Mesh Fabric, Add</i>	61.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-30.83	
32 31 13	13-0289	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	552.14	27.01
			<i>For Gate With Single Barb Wire Arm, Add</i>	51.80	
			<i>For Gate With Double Barb Wire Arm, Add</i>	75.35	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-88.30	
			<i>For Aluminized Steel Gate And Post, Add</i>	226.04	
			<i>For Powder Coated Gate And Post, Add</i>	122.44	
			<i>For 1" Mesh Fabric, Add</i>	204.85	
			<i>For 1-1/4" Mesh Fabric, Add</i>	131.86	
			<i>For 1-3/4" Mesh Fabric, Add</i>	81.94	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-40.97	
32 31 13	13-0290	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	645.82	28.73
			<i>For Gate With Single Barb Wire Arm, Add</i>	61.55	
			<i>For Gate With Double Barb Wire Arm, Add</i>	89.52	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-104.91	
			<i>For Aluminized Steel Gate And Post, Add</i>	268.56	
			<i>For Powder Coated Gate And Post, Add</i>	145.47	
			<i>For 1" Mesh Fabric, Add</i>	243.39	
			<i>For 1-1/4" Mesh Fabric, Add</i>	156.66	
			<i>For 1-3/4" Mesh Fabric, Add</i>	97.35	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-48.68	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0291 EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	756.33	34.52
For Gate With Single Barb Wire Arm, Add	71.80	
For Gate With Double Barb Wire Arm, Add	104.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.39	
For Aluminized Steel Gate And Post, Add	313.32	
For Powder Coated Gate And Post, Add	169.72	
For 1" Mesh Fabric, Add	283.95	
For 1-1/4" Mesh Fabric, Add	182.77	
For 1-3/4" Mesh Fabric, Add	113.58	
For 2-1/8" Mesh Fabric, Deduct	-56.79	
32 31 13 13-0292 EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	857.50	40.20
For Gate With Single Barb Wire Arm, Add	81.04	
For Gate With Double Barb Wire Arm, Add	117.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.13	
For Aluminized Steel Gate And Post, Add	353.61	
For Powder Coated Gate And Post, Add	191.54	
For 1" Mesh Fabric, Add	320.46	
For 1-1/4" Mesh Fabric, Add	206.27	
For 1-3/4" Mesh Fabric, Add	128.18	
For 2-1/8" Mesh Fabric, Deduct	-64.09	
32 31 13 13-0293 EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	969.03	46.30
For Gate With Single Barb Wire Arm, Add	91.29	
For Gate With Double Barb Wire Arm, Add	132.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.61	
For Aluminized Steel Gate And Post, Add	398.37	
For Powder Coated Gate And Post, Add	215.78	
For 1" Mesh Fabric, Add	361.02	
For 1-1/4" Mesh Fabric, Add	232.38	
For 1-3/4" Mesh Fabric, Add	144.41	
For 2-1/8" Mesh Fabric, Deduct	-72.20	
32 31 13 13-0294 EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,074.87	52.08
For Gate With Single Barb Wire Arm, Add	101.04	
For Gate With Double Barb Wire Arm, Add	146.96	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.22	
For Aluminized Steel Gate And Post, Add	440.89	
For Powder Coated Gate And Post, Add	238.82	
For 1" Mesh Fabric, Add	399.56	
For 1-1/4" Mesh Fabric, Add	257.19	
For 1-3/4" Mesh Fabric, Add	159.82	
For 2-1/8" Mesh Fabric, Deduct	-79.91	
32 31 13 13-0295 EA 10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,180.72	57.77
For Gate With Single Barb Wire Arm, Add	110.78	
For Gate With Double Barb Wire Arm, Add	161.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-188.84	
For Aluminized Steel Gate And Post, Add	483.42	
For Powder Coated Gate And Post, Add	261.85	
For 1" Mesh Fabric, Add	438.10	
For 1-1/4" Mesh Fabric, Add	281.99	
For 1-3/4" Mesh Fabric, Add	175.24	
For 2-1/8" Mesh Fabric, Deduct	-87.62	
32 31 13 13-0296 EA 10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,595.20	57.97
For Gate With Single Barb Wire Arm, Add	156.33	
For Gate With Double Barb Wire Arm, Add	227.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.47	
For Aluminized Steel Gate And Post, Add	682.16	
For Powder Coated Gate And Post, Add	369.50	
For 1" Mesh Fabric, Add	618.20	
For 1-1/4" Mesh Fabric, Add	397.92	
For 1-3/4" Mesh Fabric, Add	247.28	
For 2-1/8" Mesh Fabric, Deduct	-123.64	
32 31 13 13-0297 EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,893.94	62.44
For Gate With Single Barb Wire Arm, Add	187.72	
For Gate With Double Barb Wire Arm, Add	273.04	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-319.97	
For Aluminized Steel Gate And Post, Add	819.12	
For Powder Coated Gate And Post, Add	443.69	
For 1" Mesh Fabric, Add	742.33	
For 1-1/4" Mesh Fabric, Add	477.82	
For 1-3/4" Mesh Fabric, Add	296.93	
For 2-1/8" Mesh Fabric, Deduct	-148.47	
32 31 13 13-0298 EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,194.90	67.61
For Gate With Single Barb Wire Arm, Add	219.10	
For Gate With Double Barb Wire Arm, Add	318.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-373.47	
For Aluminized Steel Gate And Post, Add	956.09	
For Powder Coated Gate And Post, Add	517.88	
For 1" Mesh Fabric, Add	866.46	
For 1-1/4" Mesh Fabric, Add	557.72	
For 1-3/4" Mesh Fabric, Add	346.58	
For 2-1/8" Mesh Fabric, Deduct	-173.29	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0299	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,533.13	85.18
			<i>For Gate With Single Barb Wire Arm, Add</i>	250.49	
			<i>For Gate With Double Barb Wire Arm, Add</i>	364.35	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-426.98	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,093.06	
			<i>For Powder Coated Gate And Post, Add</i>	592.07	
			<i>For 1" Mesh Fabric, Add</i>	990.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	637.62	
			<i>For 1-3/4" Mesh Fabric, Add</i>	396.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-198.12	
32 31 13	13-0300	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,831.16	91.29
			<i>For Gate With Single Barb Wire Arm, Add</i>	281.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	409.12	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-479.43	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,227.35	
			<i>For Powder Coated Gate And Post, Add</i>	664.81	
			<i>For 1" Mesh Fabric, Add</i>	1,112.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	715.95	
			<i>For 1-3/4" Mesh Fabric, Add</i>	444.91	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-222.46	
32 31 13	13-0301	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,143.21	98.36
			<i>For Gate With Single Barb Wire Arm, Add</i>	313.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	455.67	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-533.99	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,367.00	
			<i>For Powder Coated Gate And Post, Add</i>	740.46	
			<i>For 1" Mesh Fabric, Add</i>	1,238.85	
			<i>For 1-1/4" Mesh Fabric, Add</i>	797.42	
			<i>For 1-3/4" Mesh Fabric, Add</i>	495.54	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-247.77	
32 31 13	13-0302	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,453.16	106.52
			<i>For Gate With Single Barb Wire Arm, Add</i>	344.66	
			<i>For Gate With Double Barb Wire Arm, Add</i>	501.32	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-587.49	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,503.97	
			<i>For Powder Coated Gate And Post, Add</i>	814.65	
			<i>For 1" Mesh Fabric, Add</i>	1,362.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	877.32	
			<i>For 1-3/4" Mesh Fabric, Add</i>	545.19	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-272.59	
32 31 13	13-0303	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,762.00	116.24
			<i>For Gate With Single Barb Wire Arm, Add</i>	375.43	
			<i>For Gate With Double Barb Wire Arm, Add</i>	546.08	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-639.94	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,638.25	
			<i>For Powder Coated Gate And Post, Add</i>	887.39	
			<i>For 1" Mesh Fabric, Add</i>	1,484.66	
			<i>For 1-1/4" Mesh Fabric, Add</i>	955.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	593.87	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-296.93	
32 31 13	13-0304	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,087.84	127.87
			<i>For Gate With Single Barb Wire Arm, Add</i>	407.44	
			<i>For Gate With Double Barb Wire Arm, Add</i>	592.64	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-694.49	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,777.91	
			<i>For Powder Coated Gate And Post, Add</i>	963.03	
			<i>For 1" Mesh Fabric, Add</i>	1,611.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,037.11	
			<i>For 1-3/4" Mesh Fabric, Add</i>	644.49	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-322.25	
32 31 13	13-0305	EA	28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,412.33	142.03
			<i>For Gate With Single Barb Wire Arm, Add</i>	438.44	
			<i>For Gate With Double Barb Wire Arm, Add</i>	637.73	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-747.34	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,913.18	
			<i>For Powder Coated Gate And Post, Add</i>	1,036.31	
			<i>For 1" Mesh Fabric, Add</i>	1,733.82	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,116.02	
			<i>For 1-3/4" Mesh Fabric, Add</i>	693.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-346.76	
32 31 13	13-0306	EA	30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,743.33	159.79
			<i>For Gate With Single Barb Wire Arm, Add</i>	468.98	
			<i>For Gate With Double Barb Wire Arm, Add</i>	682.16	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-799.40	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,046.47	
			<i>For Powder Coated Gate And Post, Add</i>	1,108.50	
			<i>For 1" Mesh Fabric, Add</i>	1,854.61	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,193.77	
			<i>For 1-3/4" Mesh Fabric, Add</i>	741.85	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-370.92	

32 31 13 13-0307 6' Fence Height (32 31 13 13-0266)



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0308	EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	467.02 41.80 60.80 -71.25 182.40 98.80 165.30 106.40 66.12 -33.06	28.93
32 31	13	13-0309	EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	592.91 55.65 80.94 -94.85 242.83 131.53 220.06 141.65 88.02 -44.01	28.93
32 31	13	13-0310	EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	694.56 66.24 96.35 -112.91 289.04 156.56 261.94 168.61 104.78 -52.39	30.76
32 31	13	13-0311	EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	806.40 76.42 111.16 -130.26 333.47 180.63 302.21 194.52 120.88 -60.44	37.16
32 31	13	13-0312	EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	923.60 87.19 126.82 -148.62 380.47 206.09 344.80 221.94 137.92 -68.96	43.65
32 31	13	13-0313	EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,035.12 97.45 141.74 -166.10 425.23 230.33 385.36 248.05 154.14 -77.07	49.75
32 31	13	13-0314	EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,147.68 107.71 156.66 -183.59 469.99 254.58 425.93 274.16 170.37 -85.19	56.14
32 31	13	13-0315	EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,218.24 113.35 164.87 -193.21 494.61 267.91 448.24 288.52 179.29 -89.65	62.54

32 Exterior Improvements

32 30 Site Improvements

32 31 Fences and Gates



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0316	EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,703.71	62.44
	For Gate With Single Barb Wire Arm, Add	166.79	
	For Gate With Double Barb Wire Arm, Add	242.60	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-284.30	
	For Aluminized Steel Gate And Post, Add	727.81	
	For Powder Coated Gate And Post, Add	394.23	
	For 1" Mesh Fabric, Add	659.58	
	For 1-1/4" Mesh Fabric, Add	424.56	
	For 1-3/4" Mesh Fabric, Add	263.83	
	For 2-1/8" Mesh Fabric, Deduct	-131.92	
32 31 13 13-0317	EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,021.45	67.61
	For Gate With Single Barb Wire Arm, Add	200.03	
	For Gate With Double Barb Wire Arm, Add	290.95	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-340.95	
	For Aluminized Steel Gate And Post, Add	872.84	
	For Powder Coated Gate And Post, Add	472.79	
	For 1" Mesh Fabric, Add	791.01	
	For 1-1/4" Mesh Fabric, Add	509.15	
	For 1-3/4" Mesh Fabric, Add	316.40	
	For 2-1/8" Mesh Fabric, Deduct	-158.20	
32 31 13 13-0318	EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,400.34	91.29
	For Gate With Single Barb Wire Arm, Add	233.88	
	For Gate With Double Barb Wire Arm, Add	340.18	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.65	
	For Aluminized Steel Gate And Post, Add	1,020.55	
	For Powder Coated Gate And Post, Add	552.80	
	For 1" Mesh Fabric, Add	924.88	
	For 1-1/4" Mesh Fabric, Add	595.32	
	For 1-3/4" Mesh Fabric, Add	369.95	
	For 2-1/8" Mesh Fabric, Deduct	-184.98	
32 31 13 13-0319	EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,723.57	98.36
	For Gate With Single Barb Wire Arm, Add	267.11	
	For Gate With Double Barb Wire Arm, Add	388.52	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-455.30	
	For Aluminized Steel Gate And Post, Add	1,165.57	
	For Powder Coated Gate And Post, Add	631.35	
	For 1" Mesh Fabric, Add	1,056.30	
	For 1-1/4" Mesh Fabric, Add	679.92	
	For 1-3/4" Mesh Fabric, Add	422.52	
	For 2-1/8" Mesh Fabric, Deduct	-211.26	
32 31 13 13-0320	EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,055.90	106.52
	For Gate With Single Barb Wire Arm, Add	300.96	
	For Gate With Double Barb Wire Arm, Add	437.76	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-513.00	
	For Aluminized Steel Gate And Post, Add	1,313.28	
	For Powder Coated Gate And Post, Add	711.36	
	For 1" Mesh Fabric, Add	1,190.16	
	For 1-1/4" Mesh Fabric, Add	766.08	
	For 1-3/4" Mesh Fabric, Add	476.07	
	For 2-1/8" Mesh Fabric, Deduct	-238.03	
32 31 13 13-0321	EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,392.73	116.24
	For Gate With Single Barb Wire Arm, Add	334.81	
	For Gate With Double Barb Wire Arm, Add	487.00	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-570.70	
	For Aluminized Steel Gate And Post, Add	1,461.00	
	For Powder Coated Gate And Post, Add	791.38	
	For 1" Mesh Fabric, Add	1,324.03	
	For 1-1/4" Mesh Fabric, Add	852.25	
	For 1-3/4" Mesh Fabric, Add	529.61	
	For 2-1/8" Mesh Fabric, Deduct	-264.81	
32 31 13 13-0322	EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,729.75	127.87
	For Gate With Single Barb Wire Arm, Add	368.05	
	For Gate With Double Barb Wire Arm, Add	535.34	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-627.35	
	For Aluminized Steel Gate And Post, Add	1,606.02	
	For Powder Coated Gate And Post, Add	869.93	
	For 1" Mesh Fabric, Add	1,455.46	
	For 1-1/4" Mesh Fabric, Add	936.85	
	For 1-3/4" Mesh Fabric, Add	582.18	
	For 2-1/8" Mesh Fabric, Deduct	-291.09	
32 31 13 13-0323	EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,077.35	142.03
	For Gate With Single Barb Wire Arm, Add	401.59	
	For Gate With Double Barb Wire Arm, Add	584.13	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-684.53	
	For Aluminized Steel Gate And Post, Add	1,752.39	
	For Powder Coated Gate And Post, Add	949.21	
	For 1" Mesh Fabric, Add	1,588.11	
	For 1-1/4" Mesh Fabric, Add	1,022.23	
	For 1-3/4" Mesh Fabric, Add	635.24	
	For 2-1/8" Mesh Fabric, Deduct	-317.62	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0324 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,432.24	159.79
For Gate With Single Barb Wire Arm, Add	434.76	
For Gate With Double Barb Wire Arm, Add	632.38	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-741.07	
For Aluminized Steel Gate And Post, Add	1,897.15	
For Powder Coated Gate And Post, Add	1,027.62	
For 1" Mesh Fabric, Add	1,719.29	
For 1-1/4" Mesh Fabric, Add	1,106.67	
For 1-3/4" Mesh Fabric, Add	687.72	
For 2-1/8" Mesh Fabric, Deduct	-343.86	
32 31 13 13-0325 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,806.28	182.58
For Gate With Single Barb Wire Arm, Add	468.37	
For Gate With Double Barb Wire Arm, Add	681.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-798.35	
For Aluminized Steel Gate And Post, Add	2,043.79	
For Powder Coated Gate And Post, Add	1,107.05	
For 1" Mesh Fabric, Add	1,852.18	
For 1-1/4" Mesh Fabric, Add	1,192.21	
For 1-3/4" Mesh Fabric, Add	740.87	
For 2-1/8" Mesh Fabric, Deduct	-370.44	
32 31 13 13-0326 EA 30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,203.73	213.05
For Gate With Single Barb Wire Arm, Add	502.03	
For Gate With Double Barb Wire Arm, Add	730.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-855.74	
For Aluminized Steel Gate And Post, Add	2,190.69	
For Powder Coated Gate And Post, Add	1,186.62	
For 1" Mesh Fabric, Add	1,985.31	
For 1-1/4" Mesh Fabric, Add	1,277.90	
For 1-3/4" Mesh Fabric, Add	794.13	
For 2-1/8" Mesh Fabric, Deduct	-397.06	
32 31 13 13-0327 7' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0328 EA 3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	490.03	31.17
For Gate With Single Barb Wire Arm, Add	43.60	
For Gate With Double Barb Wire Arm, Add	63.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-74.31	
For Aluminized Steel Gate And Post, Add	190.23	
For Powder Coated Gate And Post, Add	103.04	
For 1" Mesh Fabric, Add	172.40	
For 1-1/4" Mesh Fabric, Add	110.97	
For 1-3/4" Mesh Fabric, Add	68.96	
For 2-1/8" Mesh Fabric, Deduct	-34.48	
32 31 13 13-0329 EA 4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	620.58	31.17
For Gate With Single Barb Wire Arm, Add	57.96	
For Gate With Double Barb Wire Arm, Add	84.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.79	
For Aluminized Steel Gate And Post, Add	252.90	
For Powder Coated Gate And Post, Add	136.99	
For 1" Mesh Fabric, Add	229.19	
For 1-1/4" Mesh Fabric, Add	147.52	
For 1-3/4" Mesh Fabric, Add	91.68	
For 2-1/8" Mesh Fabric, Deduct	-45.84	
32 31 13 13-0330 EA 5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	731.10	32.79
For Gate With Single Barb Wire Arm, Add	69.59	
For Gate With Double Barb Wire Arm, Add	101.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.62	
For Aluminized Steel Gate And Post, Add	303.66	
For Powder Coated Gate And Post, Add	164.48	
For 1" Mesh Fabric, Add	275.19	
For 1-1/4" Mesh Fabric, Add	177.13	
For 1-3/4" Mesh Fabric, Add	110.08	
For 2-1/8" Mesh Fabric, Deduct	-55.04	
32 31 13 13-0331 EA 6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	896.02	39.89
For Gate With Single Barb Wire Arm, Add	85.39	
For Gate With Double Barb Wire Arm, Add	124.20	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-145.54	
For Aluminized Steel Gate And Post, Add	372.59	
For Powder Coated Gate And Post, Add	201.82	
For 1" Mesh Fabric, Add	337.66	
For 1-1/4" Mesh Fabric, Add	217.34	
For 1-3/4" Mesh Fabric, Add	135.06	
For 2-1/8" Mesh Fabric, Deduct	-67.53	
32 31 13 13-0332 EA 7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,059.98	46.70
For Gate With Single Barb Wire Arm, Add	101.19	
For Gate With Double Barb Wire Arm, Add	147.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.48	
For Aluminized Steel Gate And Post, Add	441.54	
For Powder Coated Gate And Post, Add	239.17	
For 1" Mesh Fabric, Add	400.15	
For 1-1/4" Mesh Fabric, Add	257.57	
For 1-3/4" Mesh Fabric, Add	160.06	
For 2-1/8" Mesh Fabric, Deduct	-80.03	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0333	EA 8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,224.91	53.71
	<i>For Gate With Single Barb Wire Arm, Add</i>	116.98	
	<i>For Gate With Double Barb Wire Arm, Add</i>	170.16	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-199.40	
	<i>For Aluminized Steel Gate And Post, Add</i>	510.48	
	<i>For Powder Coated Gate And Post, Add</i>	276.51	
	<i>For 1" Mesh Fabric, Add</i>	462.62	
	<i>For 1-1/4" Mesh Fabric, Add</i>	297.78	
	<i>For 1-3/4" Mesh Fabric, Add</i>	185.05	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-92.52	
32 31 13 13-0334	EA 9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,388.87	60.51
	<i>For Gate With Single Barb Wire Arm, Add</i>	132.79	
	<i>For Gate With Double Barb Wire Arm, Add</i>	193.14	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-226.34	
	<i>For Aluminized Steel Gate And Post, Add</i>	579.43	
	<i>For Powder Coated Gate And Post, Add</i>	313.86	
	<i>For 1" Mesh Fabric, Add</i>	525.11	
	<i>For 1-1/4" Mesh Fabric, Add</i>	338.00	
	<i>For 1-3/4" Mesh Fabric, Add</i>	210.04	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-105.02	
32 31 13 13-0335	EA 10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,527.92	67.61
	<i>For Gate With Single Barb Wire Arm, Add</i>	145.74	
	<i>For Gate With Double Barb Wire Arm, Add</i>	211.98	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-248.42	
	<i>For Aluminized Steel Gate And Post, Add</i>	635.94	
	<i>For Powder Coated Gate And Post, Add</i>	344.47	
	<i>For 1" Mesh Fabric, Add</i>	576.32	
	<i>For 1-1/4" Mesh Fabric, Add</i>	370.97	
	<i>For 1-3/4" Mesh Fabric, Add</i>	230.53	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-115.26	
32 31 13 13-0336	EA 10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,942.11	67.61
	<i>For Gate With Single Barb Wire Arm, Add</i>	191.30	
	<i>For Gate With Double Barb Wire Arm, Add</i>	278.25	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-326.08	
	<i>For Aluminized Steel Gate And Post, Add</i>	834.75	
	<i>For Powder Coated Gate And Post, Add</i>	452.16	
	<i>For 1" Mesh Fabric, Add</i>	756.50	
	<i>For 1-1/4" Mesh Fabric, Add</i>	486.94	
	<i>For 1-3/4" Mesh Fabric, Add</i>	302.60	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-151.30	
32 31 13 13-0337	EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,207.90	91.29
	<i>For Gate With Single Barb Wire Arm, Add</i>	212.71	
	<i>For Gate With Double Barb Wire Arm, Add</i>	309.39	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-362.57	
	<i>For Aluminized Steel Gate And Post, Add</i>	928.18	
	<i>For Powder Coated Gate And Post, Add</i>	502.76	
	<i>For 1" Mesh Fabric, Add</i>	841.16	
	<i>For 1-1/4" Mesh Fabric, Add</i>	541.44	
	<i>For 1-3/4" Mesh Fabric, Add</i>	336.47	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-168.23	
32 31 13 13-0338	EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,551.28	98.36
	<i>For Gate With Single Barb Wire Arm, Add</i>	248.16	
	<i>For Gate With Double Barb Wire Arm, Add</i>	360.96	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-423.00	
	<i>For Aluminized Steel Gate And Post, Add</i>	1,082.88	
	<i>For Powder Coated Gate And Post, Add</i>	586.56	
	<i>For 1" Mesh Fabric, Add</i>	981.36	
	<i>For 1-1/4" Mesh Fabric, Add</i>	631.68	
	<i>For 1-3/4" Mesh Fabric, Add</i>	392.54	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-196.27	
32 31 13 13-0339	EA 16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,871.26	106.52
	<i>For Gate With Single Barb Wire Arm, Add</i>	280.65	
	<i>For Gate With Double Barb Wire Arm, Add</i>	408.22	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-478.38	
	<i>For Aluminized Steel Gate And Post, Add</i>	1,224.66	
	<i>For Powder Coated Gate And Post, Add</i>	663.36	
	<i>For 1" Mesh Fabric, Add</i>	1,109.85	
	<i>For 1-1/4" Mesh Fabric, Add</i>	714.38	
	<i>For 1-3/4" Mesh Fabric, Add</i>	443.94	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-221.97	
32 31 13 13-0340	EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,224.87	116.24
	<i>For Gate With Single Barb Wire Arm, Add</i>	316.35	
	<i>For Gate With Double Barb Wire Arm, Add</i>	460.14	
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-539.23	
	<i>For Aluminized Steel Gate And Post, Add</i>	1,380.43	
	<i>For Powder Coated Gate And Post, Add</i>	747.73	
	<i>For 1" Mesh Fabric, Add</i>	1,251.01	
	<i>For 1-1/4" Mesh Fabric, Add</i>	805.25	
	<i>For 1-3/4" Mesh Fabric, Add</i>	500.40	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-250.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0341 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,578.68	127.87
For Gate With Single Barb Wire Arm, Add	351.43	
For Gate With Double Barb Wire Arm, Add	511.17	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-599.03	
For Aluminized Steel Gate And Post, Add	1,533.51	
For Powder Coated Gate And Post, Add	830.65	
For 1" Mesh Fabric, Add	1,389.74	
For 1-1/4" Mesh Fabric, Add	894.55	
For 1-3/4" Mesh Fabric, Add	555.90	
For 2-1/8" Mesh Fabric, Deduct	-277.95	
32 31 13 13-0342 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,940.27	142.03
For Gate With Single Barb Wire Arm, Add	386.51	
For Gate With Double Barb Wire Arm, Add	562.20	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-658.83	
For Aluminized Steel Gate And Post, Add	1,686.60	
For Powder Coated Gate And Post, Add	913.57	
For 1" Mesh Fabric, Add	1,528.48	
For 1-1/4" Mesh Fabric, Add	983.85	
For 1-3/4" Mesh Fabric, Add	611.39	
For 2-1/8" Mesh Fabric, Deduct	-305.70	
32 31 13 13-0343 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,312.51	159.79
For Gate With Single Barb Wire Arm, Add	421.59	
For Gate With Double Barb Wire Arm, Add	613.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-718.62	
For Aluminized Steel Gate And Post, Add	1,839.68	
For Powder Coated Gate And Post, Add	996.49	
For 1" Mesh Fabric, Add	1,667.21	
For 1-1/4" Mesh Fabric, Add	1,073.14	
For 1-3/4" Mesh Fabric, Add	666.88	
For 2-1/8" Mesh Fabric, Deduct	-333.44	
32 31 13 13-0344 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,699.97	182.58
For Gate With Single Barb Wire Arm, Add	456.67	
For Gate With Double Barb Wire Arm, Add	664.25	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-778.42	
For Aluminized Steel Gate And Post, Add	1,992.76	
For Powder Coated Gate And Post, Add	1,079.41	
For 1" Mesh Fabric, Add	1,805.94	
For 1-1/4" Mesh Fabric, Add	1,162.44	
For 1-3/4" Mesh Fabric, Add	722.37	
For 2-1/8" Mesh Fabric, Deduct	-361.19	
32 31 13 13-0345 EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,110.29	213.05
For Gate With Single Barb Wire Arm, Add	491.76	
For Gate With Double Barb Wire Arm, Add	715.28	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-838.22	
For Aluminized Steel Gate And Post, Add	2,145.84	
For Powder Coated Gate And Post, Add	1,162.33	
For 1" Mesh Fabric, Add	1,944.67	
For 1-1/4" Mesh Fabric, Add	1,251.74	
For 1-3/4" Mesh Fabric, Add	777.87	
For 2-1/8" Mesh Fabric, Deduct	-388.93	
32 31 13 13-0346 EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,557.17	255.63
For Gate With Single Barb Wire Arm, Add	526.84	
For Gate With Double Barb Wire Arm, Add	766.31	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-898.02	
For Aluminized Steel Gate And Post, Add	2,298.92	
For Powder Coated Gate And Post, Add	1,245.25	
For 1" Mesh Fabric, Add	2,083.40	
For 1-1/4" Mesh Fabric, Add	1,341.04	
For 1-3/4" Mesh Fabric, Add	833.36	
For 2-1/8" Mesh Fabric, Deduct	-416.68	
32 31 13 13-0347 8' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0348 EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	574.84	33.81
For Gate With Single Barb Wire Arm, Add	52.07	
For Gate With Double Barb Wire Arm, Add	75.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.75	
For Aluminized Steel Gate And Post, Add	227.19	
For Powder Coated Gate And Post, Add	123.06	
For 1" Mesh Fabric, Add	205.89	
For 1-1/4" Mesh Fabric, Add	132.53	
For 1-3/4" Mesh Fabric, Add	82.36	
For 2-1/8" Mesh Fabric, Deduct	-41.18	
32 31 13 13-0349 EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	732.62	33.81
For Gate With Single Barb Wire Arm, Add	69.42	
For Gate With Double Barb Wire Arm, Add	100.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.33	
For Aluminized Steel Gate And Post, Add	302.93	
For Powder Coated Gate And Post, Add	164.09	
For 1" Mesh Fabric, Add	274.53	
For 1-1/4" Mesh Fabric, Add	176.71	
For 1-3/4" Mesh Fabric, Add	109.81	
For 2-1/8" Mesh Fabric, Deduct	-54.91	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0350	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	855.44	37.66
			<i>For Gate With Single Barb Wire Arm, Add</i>	81.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	118.76	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-139.17	
			<i>For Aluminized Steel Gate And Post, Add</i>	356.28	
			<i>For Powder Coated Gate And Post, Add</i>	192.98	
			<i>For 1" Mesh Fabric, Add</i>	322.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	207.83	
			<i>For 1-3/4" Mesh Fabric, Add</i>	129.15	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-64.57	
32 31 13	13-0351	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	981.32	42.64
			<i>For Gate With Single Barb Wire Arm, Add</i>	93.87	
			<i>For Gate With Double Barb Wire Arm, Add</i>	136.54	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-160.01	
			<i>For Aluminized Steel Gate And Post, Add</i>	409.63	
			<i>For Powder Coated Gate And Post, Add</i>	221.88	
			<i>For 1" Mesh Fabric, Add</i>	371.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	238.95	
			<i>For 1-3/4" Mesh Fabric, Add</i>	148.49	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-74.25	
32 31 13	13-0352	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,118.86	51.37
			<i>For Gate With Single Barb Wire Arm, Add</i>	106.10	
			<i>For Gate With Double Barb Wire Arm, Add</i>	154.33	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-180.85	
			<i>For Aluminized Steel Gate And Post, Add</i>	462.98	
			<i>For Powder Coated Gate And Post, Add</i>	250.78	
			<i>For 1" Mesh Fabric, Add</i>	419.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	270.07	
			<i>For 1-3/4" Mesh Fabric, Add</i>	167.83	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-83.92	
32 31 13	13-0353	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,255.41	59.79
			<i>For Gate With Single Barb Wire Arm, Add</i>	118.33	
			<i>For Gate With Double Barb Wire Arm, Add</i>	172.11	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-201.70	
			<i>For Aluminized Steel Gate And Post, Add</i>	516.34	
			<i>For Powder Coated Gate And Post, Add</i>	279.68	
			<i>For 1" Mesh Fabric, Add</i>	467.93	
			<i>For 1-1/4" Mesh Fabric, Add</i>	301.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	187.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-93.59	
32 31 13	13-0354	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,392.95	68.63
			<i>For Gate With Single Barb Wire Arm, Add</i>	130.55	
			<i>For Gate With Double Barb Wire Arm, Add</i>	189.90	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-222.54	
			<i>For Aluminized Steel Gate And Post, Add</i>	569.69	
			<i>For Powder Coated Gate And Post, Add</i>	308.58	
			<i>For 1" Mesh Fabric, Add</i>	516.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	332.32	
			<i>For 1-3/4" Mesh Fabric, Add</i>	206.51	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-103.26	
32 31 13	13-0355	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,530.50	77.47
			<i>For Gate With Single Barb Wire Arm, Add</i>	142.78	
			<i>For Gate With Double Barb Wire Arm, Add</i>	207.68	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-243.38	
			<i>For Aluminized Steel Gate And Post, Add</i>	623.05	
			<i>For Powder Coated Gate And Post, Add</i>	337.49	
			<i>For 1" Mesh Fabric, Add</i>	564.64	
			<i>For 1-1/4" Mesh Fabric, Add</i>	363.45	
			<i>For 1-3/4" Mesh Fabric, Add</i>	225.86	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-112.93	
32 31 13	13-0356	EA	10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,221.25	91.29
			<i>For Gate With Single Barb Wire Arm, Add</i>	214.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	311.53	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-365.07	
			<i>For Aluminized Steel Gate And Post, Add</i>	934.59	
			<i>For Powder Coated Gate And Post, Add</i>	506.24	
			<i>For 1" Mesh Fabric, Add</i>	846.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	545.18	
			<i>For 1-3/4" Mesh Fabric, Add</i>	338.79	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-169.39	
32 31 13	13-0357	EA	12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,617.26	98.36
			<i>For Gate With Single Barb Wire Arm, Add</i>	255.42	
			<i>For Gate With Double Barb Wire Arm, Add</i>	371.52	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-435.37	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,114.55	
			<i>For Powder Coated Gate And Post, Add</i>	603.71	
			<i>For 1" Mesh Fabric, Add</i>	1,010.06	
			<i>For 1-1/4" Mesh Fabric, Add</i>	650.15	
			<i>For 1-3/4" Mesh Fabric, Add</i>	404.02	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-202.01	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0358 EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	3,022.33	106.52
For Gate With Single Barb Wire Arm, Add	297.27	
For Gate With Double Barb Wire Arm, Add	432.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-506.71	
For Aluminized Steel Gate And Post, Add	1,297.17	
For Powder Coated Gate And Post, Add	702.63	
For 1" Mesh Fabric, Add	1,175.56	
For 1-1/4" Mesh Fabric, Add	756.68	
For 1-3/4" Mesh Fabric, Add	470.22	
For 2-1/8" Mesh Fabric, Deduct	-235.11	
32 31 13 13-0359 EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	3,443.08	116.24
For Gate With Single Barb Wire Arm, Add	340.35	
For Gate With Double Barb Wire Arm, Add	495.06	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-580.14	
For Aluminized Steel Gate And Post, Add	1,485.17	
For Powder Coated Gate And Post, Add	804.47	
For 1" Mesh Fabric, Add	1,345.93	
For 1-1/4" Mesh Fabric, Add	866.35	
For 1-3/4" Mesh Fabric, Add	538.37	
For 2-1/8" Mesh Fabric, Deduct	-269.19	
32 31 13 13-0360 EA 18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	3,869.63	127.87
For Gate With Single Barb Wire Arm, Add	383.43	
For Gate With Double Barb Wire Arm, Add	557.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-653.58	
For Aluminized Steel Gate And Post, Add	1,673.16	
For Powder Coated Gate And Post, Add	906.30	
For 1" Mesh Fabric, Add	1,516.31	
For 1-1/4" Mesh Fabric, Add	976.01	
For 1-3/4" Mesh Fabric, Add	606.52	
For 2-1/8" Mesh Fabric, Deduct	-303.26	
32 31 13 13-0361 EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	4,298.35	142.03
For Gate With Single Barb Wire Arm, Add	425.90	
For Gate With Double Barb Wire Arm, Add	619.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-725.97	
For Aluminized Steel Gate And Post, Add	1,858.47	
For Powder Coated Gate And Post, Add	1,006.67	
For 1" Mesh Fabric, Add	1,684.24	
For 1-1/4" Mesh Fabric, Add	1,084.11	
For 1-3/4" Mesh Fabric, Add	673.70	
For 2-1/8" Mesh Fabric, Deduct	-336.85	
32 31 13 13-0362 EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	4,732.14	159.79
For Gate With Single Barb Wire Arm, Add	467.75	
For Gate With Double Barb Wire Arm, Add	680.37	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-797.30	
For Aluminized Steel Gate And Post, Add	2,041.10	
For Powder Coated Gate And Post, Add	1,105.60	
For 1" Mesh Fabric, Add	1,849.75	
For 1-1/4" Mesh Fabric, Add	1,190.64	
For 1-3/4" Mesh Fabric, Add	739.90	
For 2-1/8" Mesh Fabric, Deduct	-369.95	
32 31 13 13-0363 EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	5,192.34	182.58
For Gate With Single Barb Wire Arm, Add	510.83	
For Gate With Double Barb Wire Arm, Add	743.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-870.74	
For Aluminized Steel Gate And Post, Add	2,229.10	
For Powder Coated Gate And Post, Add	1,207.43	
For 1" Mesh Fabric, Add	2,020.12	
For 1-1/4" Mesh Fabric, Add	1,300.31	
For 1-3/4" Mesh Fabric, Add	808.05	
For 2-1/8" Mesh Fabric, Deduct	-404.02	
32 31 13 13-0364 EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	5,675.40	213.05
For Gate With Single Barb Wire Arm, Add	553.92	
For Gate With Double Barb Wire Arm, Add	805.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-944.18	
For Aluminized Steel Gate And Post, Add	2,417.09	
For Powder Coated Gate And Post, Add	1,309.26	
For 1" Mesh Fabric, Add	2,190.49	
For 1-1/4" Mesh Fabric, Add	1,409.97	
For 1-3/4" Mesh Fabric, Add	876.20	
For 2-1/8" Mesh Fabric, Deduct	-438.10	
32 31 13 13-0365 EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	6,189.42	255.63
For Gate With Single Barb Wire Arm, Add	596.38	
For Gate With Double Barb Wire Arm, Add	867.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,016.56	
For Aluminized Steel Gate And Post, Add	2,602.40	
For Powder Coated Gate And Post, Add	1,409.63	
For 1" Mesh Fabric, Add	2,358.43	
For 1-1/4" Mesh Fabric, Add	1,518.07	
For 1-3/4" Mesh Fabric, Add	943.37	
For 2-1/8" Mesh Fabric, Deduct	-471.69	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 31 13	13-0366	EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,767.41	319.57
			<i>For Gate With Single Barb Wire Arm, Add</i>	638.85	
			<i>For Gate With Double Barb Wire Arm, Add</i>	929.24	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,088.95	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,787.71	
			<i>For Powder Coated Gate And Post, Add</i>	1,510.01	
			<i>For 1" Mesh Fabric, Add</i>	2,526.36	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,626.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,010.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-505.27	
	32 31 13	13-0367	10' Fence Height <small>(32 31 13 13-0266)</small>		
	32 31 13	13-0368	EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	724.87	37.56
			<i>For Gate With Single Barb Wire Arm, Add</i>	67.33	
			<i>For Gate With Double Barb Wire Arm, Add</i>	97.93	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-114.76	
			<i>For Aluminized Steel Gate And Post, Add</i>	293.79	
			<i>For Powder Coated Gate And Post, Add</i>	159.14	
			<i>For 1" Mesh Fabric, Add</i>	266.25	
			<i>For 1-1/4" Mesh Fabric, Add</i>	171.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	106.50	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-53.25	
	32 31 13	13-0369	EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	928.89	37.56
			<i>For Gate With Single Barb Wire Arm, Add</i>	89.77	
			<i>For Gate With Double Barb Wire Arm, Add</i>	130.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-153.02	
			<i>For Aluminized Steel Gate And Post, Add</i>	391.72	
			<i>For Powder Coated Gate And Post, Add</i>	212.18	
			<i>For 1" Mesh Fabric, Add</i>	355.00	
			<i>For 1-1/4" Mesh Fabric, Add</i>	228.51	
			<i>For 1-3/4" Mesh Fabric, Add</i>	142.00	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-71.00	
	32 31 13	13-0370	EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,077.61	39.19
			<i>For Gate With Single Barb Wire Arm, Add</i>	105.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	153.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-179.97	
			<i>For Aluminized Steel Gate And Post, Add</i>	460.72	
			<i>For Powder Coated Gate And Post, Add</i>	249.56	
			<i>For 1" Mesh Fabric, Add</i>	417.53	
			<i>For 1-1/4" Mesh Fabric, Add</i>	268.76	
			<i>For 1-3/4" Mesh Fabric, Add</i>	167.01	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-83.51	
	32 31 13	13-0371	EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,249.78	48.73
			<i>For Gate With Single Barb Wire Arm, Add</i>	121.39	
			<i>For Gate With Double Barb Wire Arm, Add</i>	176.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-206.92	
			<i>For Aluminized Steel Gate And Post, Add</i>	529.72	
			<i>For Powder Coated Gate And Post, Add</i>	286.93	
			<i>For 1" Mesh Fabric, Add</i>	480.06	
			<i>For 1-1/4" Mesh Fabric, Add</i>	309.01	
			<i>For 1-3/4" Mesh Fabric, Add</i>	192.02	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-96.01	
	32 31 13	13-0372	EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,421.33	57.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	137.20	
			<i>For Gate With Double Barb Wire Arm, Add</i>	199.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-233.87	
			<i>For Aluminized Steel Gate And Post, Add</i>	598.70	
			<i>For Powder Coated Gate And Post, Add</i>	324.30	
			<i>For 1" Mesh Fabric, Add</i>	542.57	
			<i>For 1-1/4" Mesh Fabric, Add</i>	349.24	
			<i>For 1-3/4" Mesh Fabric, Add</i>	217.03	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-108.51	
	32 31 13	13-0373	EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,593.06	67.31
			<i>For Gate With Single Barb Wire Arm, Add</i>	153.01	
			<i>For Gate With Double Barb Wire Arm, Add</i>	222.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-260.82	
			<i>For Aluminized Steel Gate And Post, Add</i>	667.70	
			<i>For Powder Coated Gate And Post, Add</i>	361.67	
			<i>For 1" Mesh Fabric, Add</i>	605.10	
			<i>For 1-1/4" Mesh Fabric, Add</i>	389.49	
			<i>For 1-3/4" Mesh Fabric, Add</i>	242.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-121.02	
	32 31 13	13-0374	EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,764.22	76.45
			<i>For Gate With Single Barb Wire Arm, Add</i>	168.83	
			<i>For Gate With Double Barb Wire Arm, Add</i>	245.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-287.77	
			<i>For Aluminized Steel Gate And Post, Add</i>	736.70	
			<i>For Powder Coated Gate And Post, Add</i>	399.05	
			<i>For 1" Mesh Fabric, Add</i>	667.63	
			<i>For 1-1/4" Mesh Fabric, Add</i>	429.74	
			<i>For 1-3/4" Mesh Fabric, Add</i>	267.05	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-133.53	



Exterior Improvements	32	
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Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0375 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,936.41	85.88
For Gate With Single Barb Wire Arm, Add	184.64	
For Gate With Double Barb Wire Arm, Add	268.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-314.73	
For Aluminized Steel Gate And Post, Add	805.70	
For Powder Coated Gate And Post, Add	436.42	
For 1" Mesh Fabric, Add	730.16	
For 1-1/4" Mesh Fabric, Add	469.99	
For 1-3/4" Mesh Fabric, Add	292.07	
For 2-1/8" Mesh Fabric, Deduct	-146.03	
32 31 13 13-0376 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,822.44	101.49
For Gate With Single Barb Wire Arm, Add	276.96	
For Gate With Double Barb Wire Arm, Add	402.84	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-472.08	
For Aluminized Steel Gate And Post, Add	1,208.53	
For Powder Coated Gate And Post, Add	654.62	
For 1" Mesh Fabric, Add	1,095.23	
For 1-1/4" Mesh Fabric, Add	704.98	
For 1-3/4" Mesh Fabric, Add	438.09	
For 2-1/8" Mesh Fabric, Deduct	-219.05	
32 31 13 13-0377 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,069.64	109.16
For Gate With Single Barb Wire Arm, Add	301.58	
For Gate With Double Barb Wire Arm, Add	438.66	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-514.06	
For Aluminized Steel Gate And Post, Add	1,315.99	
For Powder Coated Gate And Post, Add	712.83	
For 1" Mesh Fabric, Add	1,192.62	
For 1-1/4" Mesh Fabric, Add	767.66	
For 1-3/4" Mesh Fabric, Add	477.05	
For 2-1/8" Mesh Fabric, Deduct	-238.52	
32 31 13 13-0378 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,499.90	118.40
For Gate With Single Barb Wire Arm, Add	345.89	
For Gate With Double Barb Wire Arm, Add	503.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-589.59	
For Aluminized Steel Gate And Post, Add	1,509.34	
For Powder Coated Gate And Post, Add	817.56	
For 1" Mesh Fabric, Add	1,367.84	
For 1-1/4" Mesh Fabric, Add	880.45	
For 1-3/4" Mesh Fabric, Add	547.14	
For 2-1/8" Mesh Fabric, Deduct	-273.57	
32 31 13 13-0379 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,979.67	129.08
For Gate With Single Barb Wire Arm, Add	395.13	
For Gate With Double Barb Wire Arm, Add	574.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-673.51	
For Aluminized Steel Gate And Post, Add	1,724.19	
For Powder Coated Gate And Post, Add	933.94	
For 1" Mesh Fabric, Add	1,562.55	
For 1-1/4" Mesh Fabric, Add	1,005.78	
For 1-3/4" Mesh Fabric, Add	625.02	
For 2-1/8" Mesh Fabric, Deduct	-312.51	
32 31 13 13-0380 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,466.21	142.03
For Gate With Single Barb Wire Arm, Add	444.36	
For Gate With Double Barb Wire Arm, Add	646.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-757.44	
For Aluminized Steel Gate And Post, Add	1,939.05	
For Powder Coated Gate And Post, Add	1,050.32	
For 1" Mesh Fabric, Add	1,757.26	
For 1-1/4" Mesh Fabric, Add	1,131.11	
For 1-3/4" Mesh Fabric, Add	702.90	
For 2-1/8" Mesh Fabric, Deduct	-351.45	
32 31 13 13-0381 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,963.77	157.75
For Gate With Single Barb Wire Arm, Add	493.91	
For Gate With Double Barb Wire Arm, Add	718.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-841.89	
For Aluminized Steel Gate And Post, Add	2,155.24	
For Powder Coated Gate And Post, Add	1,167.42	
For 1" Mesh Fabric, Add	1,953.18	
For 1-1/4" Mesh Fabric, Add	1,257.22	
For 1-3/4" Mesh Fabric, Add	781.27	
For 2-1/8" Mesh Fabric, Deduct	-390.64	
32 31 13 13-0382 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,473.65	177.54
For Gate With Single Barb Wire Arm, Add	543.45	
For Gate With Double Barb Wire Arm, Add	790.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-926.34	
For Aluminized Steel Gate And Post, Add	2,371.44	
For Powder Coated Gate And Post, Add	1,284.53	
For 1" Mesh Fabric, Add	2,149.11	
For 1-1/4" Mesh Fabric, Add	1,383.34	
For 1-3/4" Mesh Fabric, Add	859.65	
For 2-1/8" Mesh Fabric, Deduct	-429.82	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0383	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,997.03	202.74
			<i>For Gate With Single Barb Wire Arm, Add</i>	592.69	
			<i>For Gate With Double Barb Wire Arm, Add</i>	862.10	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,010.27	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,586.29	
			<i>For Powder Coated Gate And Post, Add</i>	1,400.91	
			<i>For 1" Mesh Fabric, Add</i>	2,343.82	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,508.67	
			<i>For 1-3/4" Mesh Fabric, Add</i>	937.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-468.76	
32 31 13	13-0384	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,546.58	236.69
			<i>For Gate With Single Barb Wire Arm, Add</i>	641.93	
			<i>For Gate With Double Barb Wire Arm, Add</i>	933.71	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,094.20	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,801.14	
			<i>For Powder Coated Gate And Post, Add</i>	1,517.28	
			<i>For 1" Mesh Fabric, Add</i>	2,538.53	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,634.00	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,015.41	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-507.71	
32 31 13	13-0385	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,135.61	283.82
			<i>For Gate With Single Barb Wire Arm, Add</i>	691.17	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,005.33	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,178.12	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,015.99	
			<i>For Powder Coated Gate And Post, Add</i>	1,633.66	
			<i>For 1" Mesh Fabric, Add</i>	2,733.24	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,759.33	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,093.30	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-546.65	
32 31 13	13-0386	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,802.83	355.08
			<i>For Gate With Single Barb Wire Arm, Add</i>	741.02	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,077.84	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,263.10	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,233.53	
			<i>For Powder Coated Gate And Post, Add</i>	1,751.50	
			<i>For 1" Mesh Fabric, Add</i>	2,930.39	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,886.23	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,172.15	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-586.08	
32 31 13	13-0387		12' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13	13-0388	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	908.79	41.73
			<i>For Gate With Single Barb Wire Arm, Add</i>	86.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	125.35	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-146.90	
			<i>For Aluminized Steel Gate And Post, Add</i>	376.06	
			<i>For Powder Coated Gate And Post, Add</i>	203.70	
			<i>For 1" Mesh Fabric, Add</i>	340.80	
			<i>For 1-1/4" Mesh Fabric, Add</i>	219.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	136.32	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-68.16	
32 31 13	13-0389	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,169.93	41.73
			<i>For Gate With Single Barb Wire Arm, Add</i>	114.90	
			<i>For Gate With Double Barb Wire Arm, Add</i>	167.13	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-195.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	501.40	
			<i>For Powder Coated Gate And Post, Add</i>	271.59	
			<i>For 1" Mesh Fabric, Add</i>	454.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	292.49	
			<i>For 1-3/4" Mesh Fabric, Add</i>	181.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-90.88	
32 31 13	13-0390	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,358.55	43.25
			<i>For Gate With Single Barb Wire Arm, Add</i>	135.15	
			<i>For Gate With Double Barb Wire Arm, Add</i>	196.58	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-230.36	
			<i>For Aluminized Steel Gate And Post, Add</i>	589.73	
			<i>For Powder Coated Gate And Post, Add</i>	319.44	
			<i>For 1" Mesh Fabric, Add</i>	534.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	344.01	
			<i>For 1-3/4" Mesh Fabric, Add</i>	213.78	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-106.89	
32 31 13	13-0391	EA	6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,574.00	53.71
			<i>For Gate With Single Barb Wire Arm, Add</i>	155.38	
			<i>For Gate With Double Barb Wire Arm, Add</i>	226.01	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-264.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	678.04	
			<i>For Powder Coated Gate And Post, Add</i>	367.27	
			<i>For 1" Mesh Fabric, Add</i>	614.47	
			<i>For 1-1/4" Mesh Fabric, Add</i>	395.52	
			<i>For 1-3/4" Mesh Fabric, Add</i>	245.79	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-122.89	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0392 EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	664.26	64.26
For Gate With Single Barb Wire Arm, Add	51.85	
For Gate With Double Barb Wire Arm, Add	75.42	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.38	
For Aluminized Steel Gate And Post, Add	226.25	
For Powder Coated Gate And Post, Add	122.55	
For 1" Mesh Fabric, Add	205.04	
For 1-1/4" Mesh Fabric, Add	131.98	
For 1-3/4" Mesh Fabric, Add	82.02	
For 2-1/8" Mesh Fabric, Deduct	-41.01	
32 31 13 13-0393 EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	749.04	74.41
For Gate With Single Barb Wire Arm, Add	57.82	
For Gate With Double Barb Wire Arm, Add	84.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.57	
For Aluminized Steel Gate And Post, Add	252.33	
For Powder Coated Gate And Post, Add	136.68	
For 1" Mesh Fabric, Add	228.67	
For 1-1/4" Mesh Fabric, Add	147.19	
For 1-3/4" Mesh Fabric, Add	91.47	
For 2-1/8" Mesh Fabric, Deduct	-45.73	
32 31 13 13-0394 EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	834.82	84.88
For Gate With Single Barb Wire Arm, Add	63.80	
For Gate With Double Barb Wire Arm, Add	92.80	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.75	
For Aluminized Steel Gate And Post, Add	278.40	
For Powder Coated Gate And Post, Add	150.80	
For 1" Mesh Fabric, Add	252.30	
For 1-1/4" Mesh Fabric, Add	162.40	
For 1-3/4" Mesh Fabric, Add	100.92	
For 2-1/8" Mesh Fabric, Deduct	-50.46	
32 31 13 13-0395 EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	920.62	95.33
For Gate With Single Barb Wire Arm, Add	69.78	
For Gate With Double Barb Wire Arm, Add	101.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.94	
For Aluminized Steel Gate And Post, Add	304.47	
For Powder Coated Gate And Post, Add	164.92	
For 1" Mesh Fabric, Add	275.93	
For 1-1/4" Mesh Fabric, Add	177.61	
For 1-3/4" Mesh Fabric, Add	110.37	
For 2-1/8" Mesh Fabric, Deduct	-55.19	
32 31 13 13-0396 EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,222.30	112.77
For Gate With Single Barb Wire Arm, Add	97.22	
For Gate With Double Barb Wire Arm, Add	141.40	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.71	
For Aluminized Steel Gate And Post, Add	424.21	
For Powder Coated Gate And Post, Add	229.78	
For 1" Mesh Fabric, Add	384.44	
For 1-1/4" Mesh Fabric, Add	247.46	
For 1-3/4" Mesh Fabric, Add	153.78	
For 2-1/8" Mesh Fabric, Deduct	-76.89	
32 31 13 13-0397 EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,335.68	121.40
For Gate With Single Barb Wire Arm, Add	106.85	
For Gate With Double Barb Wire Arm, Add	155.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.12	
For Aluminized Steel Gate And Post, Add	466.24	
For Powder Coated Gate And Post, Add	252.55	
For 1" Mesh Fabric, Add	422.53	
For 1-1/4" Mesh Fabric, Add	271.97	
For 1-3/4" Mesh Fabric, Add	169.01	
For 2-1/8" Mesh Fabric, Deduct	-84.51	
32 31 13 13-0398 EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,508.32	131.48
For Gate With Single Barb Wire Arm, Add	122.47	
For Gate With Double Barb Wire Arm, Add	178.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-208.76	
For Aluminized Steel Gate And Post, Add	534.43	
For Powder Coated Gate And Post, Add	289.48	
For 1" Mesh Fabric, Add	484.32	
For 1-1/4" Mesh Fabric, Add	311.75	
For 1-3/4" Mesh Fabric, Add	193.73	
For 2-1/8" Mesh Fabric, Deduct	-96.86	
32 31 13 13-0399 EA 16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,702.72	143.35
For Gate With Single Barb Wire Arm, Add	139.92	
For Gate With Double Barb Wire Arm, Add	203.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-238.50	
For Aluminized Steel Gate And Post, Add	610.55	
For Powder Coated Gate And Post, Add	330.71	
For 1" Mesh Fabric, Add	553.31	
For 1-1/4" Mesh Fabric, Add	356.15	
For 1-3/4" Mesh Fabric, Add	221.32	
For 2-1/8" Mesh Fabric, Deduct	-110.66	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0400 EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,319.06	157.87
For Gate With Single Barb Wire Arm, Add	532.99	
For Gate With Double Barb Wire Arm, Add	775.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-908.51	
For Aluminized Steel Gate And Post, Add	2,325.78	
For Powder Coated Gate And Post, Add	1,259.80	
For 1" Mesh Fabric, Add	2,107.74	
For 1-1/4" Mesh Fabric, Add	1,356.70	
For 1-3/4" Mesh Fabric, Add	843.09	
For 2-1/8" Mesh Fabric, Deduct	-421.55	
32 31 13 13-0401 EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,914.25	175.26
For Gate With Single Barb Wire Arm, Add	592.69	
For Gate With Double Barb Wire Arm, Add	862.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,010.27	
For Aluminized Steel Gate And Post, Add	2,586.29	
For Powder Coated Gate And Post, Add	1,400.91	
For 1" Mesh Fabric, Add	2,343.82	
For 1-1/4" Mesh Fabric, Add	1,508.67	
For 1-3/4" Mesh Fabric, Add	937.53	
For 2-1/8" Mesh Fabric, Deduct	-468.76	
32 31 13 13-0402 EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,517.62	197.21
For Gate With Single Barb Wire Arm, Add	651.78	
For Gate With Double Barb Wire Arm, Add	948.04	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,110.98	
For Aluminized Steel Gate And Post, Add	2,844.11	
For Powder Coated Gate And Post, Add	1,540.56	
For 1" Mesh Fabric, Add	2,577.48	
For 1-1/4" Mesh Fabric, Add	1,659.06	
For 1-3/4" Mesh Fabric, Add	1,030.99	
For 2-1/8" Mesh Fabric, Deduct	-515.50	
32 31 13 13-0403 EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,144.56	225.29
For Gate With Single Barb Wire Arm, Add	711.48	
For Gate With Double Barb Wire Arm, Add	1,034.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,212.74	
For Aluminized Steel Gate And Post, Add	3,104.62	
For Powder Coated Gate And Post, Add	1,681.67	
For 1" Mesh Fabric, Add	2,813.56	
For 1-1/4" Mesh Fabric, Add	1,811.03	
For 1-3/4" Mesh Fabric, Add	1,125.43	
For 2-1/8" Mesh Fabric, Deduct	-562.71	
32 31 13 13-0404 EA 26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,789.36	263.07
For Gate With Single Barb Wire Arm, Add	769.95	
For Gate With Double Barb Wire Arm, Add	1,119.92	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,312.41	
For Aluminized Steel Gate And Post, Add	3,359.76	
For Powder Coated Gate And Post, Add	1,819.87	
For 1" Mesh Fabric, Add	3,044.78	
For 1-1/4" Mesh Fabric, Add	1,959.86	
For 1-3/4" Mesh Fabric, Add	1,217.91	
For 2-1/8" Mesh Fabric, Deduct	-608.96	
32 31 13 13-0405 EA 28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,483.63	315.38
For Gate With Single Barb Wire Arm, Add	829.03	
For Gate With Double Barb Wire Arm, Add	1,205.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,413.12	
For Aluminized Steel Gate And Post, Add	3,617.58	
For Powder Coated Gate And Post, Add	1,959.52	
For 1" Mesh Fabric, Add	3,278.43	
For 1-1/4" Mesh Fabric, Add	2,110.26	
For 1-3/4" Mesh Fabric, Add	1,311.37	
For 2-1/8" Mesh Fabric, Deduct	-655.69	
32 31 13 13-0406 EA 30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	9,264.14	394.55
For Gate With Single Barb Wire Arm, Add	888.73	
For Gate With Double Barb Wire Arm, Add	1,292.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,514.88	
For Aluminized Steel Gate And Post, Add	3,878.09	
For Powder Coated Gate And Post, Add	2,100.63	
For 1" Mesh Fabric, Add	3,514.52	
For 1-1/4" Mesh Fabric, Add	2,262.22	
For 1-3/4" Mesh Fabric, Add	1,405.81	
For 2-1/8" Mesh Fabric, Deduct	-702.90	
32 31 13 13-0407 Vinyl Coated Without Barb Wire Arm <small>(32 31 13 13-0265)</small>		
Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0408 4' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0409 EA 3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	186.37	25.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-20.67	
For 1" Mesh Fabric, Add	47.95	
For 1-1/4" Mesh Fabric, Add	30.86	
For 1-3/4" Mesh Fabric, Add	19.18	
For 2-1/8" Mesh Fabric, Deduct	-9.59	
For Gate With Single Barb Wire Arm, Add	12.13	
For Gate With Double Barb Wire Arm, Add	17.64	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0410 EA 4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	223.11	25.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.56	
For 1" Mesh Fabric, Add	63.93	
For 1-1/4" Mesh Fabric, Add	41.15	
For 1-3/4" Mesh Fabric, Add	25.57	
For 2-1/8" Mesh Fabric, Deduct	-12.79	
For Gate With Single Barb Wire Arm, Add	16.17	
For Gate With Double Barb Wire Arm, Add	23.52	
32 31 13 13-0411 EA 5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	258.82	27.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.30	
For 1" Mesh Fabric, Add	77.26	
For 1-1/4" Mesh Fabric, Add	49.73	
For 1-3/4" Mesh Fabric, Add	30.90	
For 2-1/8" Mesh Fabric, Deduct	-15.45	
For Gate With Single Barb Wire Arm, Add	19.54	
For Gate With Double Barb Wire Arm, Add	28.42	
32 31 13 13-0412 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	305.67	32.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.04	
For 1" Mesh Fabric, Add	90.57	
For 1-1/4" Mesh Fabric, Add	58.30	
For 1-3/4" Mesh Fabric, Add	36.23	
For 2-1/8" Mesh Fabric, Deduct	-18.11	
For Gate With Single Barb Wire Arm, Add	22.90	
For Gate With Double Barb Wire Arm, Add	33.31	
32 31 13 13-0413 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	352.53	37.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.78	
For 1" Mesh Fabric, Add	103.89	
For 1-1/4" Mesh Fabric, Add	66.87	
For 1-3/4" Mesh Fabric, Add	41.56	
For 2-1/8" Mesh Fabric, Deduct	-20.78	
For Gate With Single Barb Wire Arm, Add	26.27	
For Gate With Double Barb Wire Arm, Add	38.21	
32 31 13 13-0414 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	399.41	43.25
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.52	
For 1" Mesh Fabric, Add	117.22	
For 1-1/4" Mesh Fabric, Add	75.45	
For 1-3/4" Mesh Fabric, Add	46.89	
For 2-1/8" Mesh Fabric, Deduct	-23.44	
For Gate With Single Barb Wire Arm, Add	29.64	
For Gate With Double Barb Wire Arm, Add	43.11	
32 31 13 13-0415 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	446.27	48.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.26	
For 1" Mesh Fabric, Add	130.53	
For 1-1/4" Mesh Fabric, Add	84.02	
For 1-3/4" Mesh Fabric, Add	52.21	
For 2-1/8" Mesh Fabric, Deduct	-26.11	
For Gate With Single Barb Wire Arm, Add	33.01	
For Gate With Double Barb Wire Arm, Add	48.01	
32 31 13 13-0416 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	493.12	54.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.00	
For 1" Mesh Fabric, Add	143.85	
For 1-1/4" Mesh Fabric, Add	92.59	
For 1-3/4" Mesh Fabric, Add	57.54	
For 2-1/8" Mesh Fabric, Deduct	-28.77	
For Gate With Single Barb Wire Arm, Add	36.38	
For Gate With Double Barb Wire Arm, Add	52.91	
32 31 13 13-0417 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	603.35	54.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.67	
For 1" Mesh Fabric, Add	191.80	
For 1-1/4" Mesh Fabric, Add	123.46	
For 1-3/4" Mesh Fabric, Add	76.72	
For 2-1/8" Mesh Fabric, Deduct	-38.36	
For Gate With Single Barb Wire Arm, Add	48.50	
For Gate With Double Barb Wire Arm, Add	70.55	
32 31 13 13-0418 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	703.14	57.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.21	
For 1" Mesh Fabric, Add	230.16	
For 1-1/4" Mesh Fabric, Add	148.15	
For 1-3/4" Mesh Fabric, Add	92.06	
For 2-1/8" Mesh Fabric, Deduct	-46.03	
For Gate With Single Barb Wire Arm, Add	58.20	
For Gate With Double Barb Wire Arm, Add	84.66	
32 31 13 13-0419 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	804.72	62.44
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.74	
For 1" Mesh Fabric, Add	268.52	
For 1-1/4" Mesh Fabric, Add	172.84	
For 1-3/4" Mesh Fabric, Add	107.41	
For 2-1/8" Mesh Fabric, Deduct	-53.70	
For Gate With Single Barb Wire Arm, Add	67.90	
For Gate With Double Barb Wire Arm, Add	98.77	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0420	EA 16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	908.51	67.61
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.28	
	For 1" Mesh Fabric, Add	306.88	
	For 1-1/4" Mesh Fabric, Add	197.53	
	For 1-3/4" Mesh Fabric, Add	122.75	
	For 2-1/8" Mesh Fabric, Deduct	-61.38	
	For Gate With Single Barb Wire Arm, Add	77.60	
	For Gate With Double Barb Wire Arm, Add	112.88	
32 31 13 13-0421	EA 18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,049.57	85.18
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.81	
	For 1" Mesh Fabric, Add	345.24	
	For 1-1/4" Mesh Fabric, Add	222.22	
	For 1-3/4" Mesh Fabric, Add	138.10	
	For 2-1/8" Mesh Fabric, Deduct	-69.05	
	For Gate With Single Barb Wire Arm, Add	87.30	
	For Gate With Double Barb Wire Arm, Add	126.98	
32 31 13 13-0422	EA 20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,156.03	91.29
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.35	
	For 1" Mesh Fabric, Add	383.60	
	For 1-1/4" Mesh Fabric, Add	246.92	
	For 1-3/4" Mesh Fabric, Add	153.44	
	For 2-1/8" Mesh Fabric, Deduct	-76.72	
	For Gate With Single Barb Wire Arm, Add	97.00	
	For Gate With Double Barb Wire Arm, Add	141.09	
32 31 13 13-0423	EA 22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,265.31	98.36
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-181.88	
	For 1" Mesh Fabric, Add	421.96	
	For 1-1/4" Mesh Fabric, Add	271.61	
	For 1-3/4" Mesh Fabric, Add	168.78	
	For 2-1/8" Mesh Fabric, Deduct	-84.39	
	For Gate With Single Barb Wire Arm, Add	106.70	
	For Gate With Double Barb Wire Arm, Add	155.20	
32 31 13 13-0424	EA 24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,378.09	106.52
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.41	
	For 1" Mesh Fabric, Add	460.32	
	For 1-1/4" Mesh Fabric, Add	296.30	
	For 1-3/4" Mesh Fabric, Add	184.13	
	For 2-1/8" Mesh Fabric, Deduct	-92.06	
	For Gate With Single Barb Wire Arm, Add	116.40	
	For Gate With Double Barb Wire Arm, Add	169.31	
32 31 13 13-0425	EA 26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,495.37	116.24
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-214.95	
	For 1" Mesh Fabric, Add	498.68	
	For 1-1/4" Mesh Fabric, Add	320.99	
	For 1-3/4" Mesh Fabric, Add	199.47	
	For 2-1/8" Mesh Fabric, Deduct	-99.74	
	For Gate With Single Barb Wire Arm, Add	126.10	
	For Gate With Double Barb Wire Arm, Add	183.42	
32 31 13 13-0426	EA 28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,618.44	127.87
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-231.48	
	For 1" Mesh Fabric, Add	537.04	
	For 1-1/4" Mesh Fabric, Add	345.68	
	For 1-3/4" Mesh Fabric, Add	214.82	
	For 2-1/8" Mesh Fabric, Deduct	-107.41	
	For Gate With Single Barb Wire Arm, Add	135.80	
	For Gate With Double Barb Wire Arm, Add	197.53	
32 31 13 13-0427	EA 30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,749.29	142.03
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.02	
	For 1" Mesh Fabric, Add	575.40	
	For 1-1/4" Mesh Fabric, Add	370.37	
	For 1-3/4" Mesh Fabric, Add	230.16	
	For 2-1/8" Mesh Fabric, Deduct	-115.08	
	For Gate With Single Barb Wire Arm, Add	145.50	
	For Gate With Double Barb Wire Arm, Add	211.64	
32 31 13 13-0428	5' Fence Height (32 31 13 13-0407)		
32 31 13 13-0429	EA 3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	217.81	27.01
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.61	
	For 1" Mesh Fabric, Add	59.42	
	For 1-1/4" Mesh Fabric, Add	38.25	
	For 1-3/4" Mesh Fabric, Add	23.77	
	For 2-1/8" Mesh Fabric, Deduct	-11.88	
	For Gate With Single Barb Wire Arm, Add	15.02	
	For Gate With Double Barb Wire Arm, Add	21.85	
32 31 13 13-0430	EA 4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	263.34	27.01
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.15	
	For 1" Mesh Fabric, Add	79.22	
	For 1-1/4" Mesh Fabric, Add	50.99	
	For 1-3/4" Mesh Fabric, Add	31.69	
	For 2-1/8" Mesh Fabric, Deduct	-15.84	
	For Gate With Single Barb Wire Arm, Add	20.03	
	For Gate With Double Barb Wire Arm, Add	29.14	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0431 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	302.57	28.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.55	
For 1" Mesh Fabric, Add	94.08	
For 1-1/4" Mesh Fabric, Add	60.56	
For 1-3/4" Mesh Fabric, Add	37.63	
For 2-1/8" Mesh Fabric, Deduct	-18.82	
For Gate With Single Barb Wire Arm, Add	23.79	
For Gate With Double Barb Wire Arm, Add	34.60	
32 31 13 13-0432 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	353.97	34.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.95	
For 1" Mesh Fabric, Add	108.93	
For 1-1/4" Mesh Fabric, Add	70.12	
For 1-3/4" Mesh Fabric, Add	43.57	
For 2-1/8" Mesh Fabric, Deduct	-21.79	
For Gate With Single Barb Wire Arm, Add	27.55	
For Gate With Double Barb Wire Arm, Add	40.07	
32 31 13 13-0433 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	405.38	40.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.36	
For 1" Mesh Fabric, Add	123.79	
For 1-1/4" Mesh Fabric, Add	79.68	
For 1-3/4" Mesh Fabric, Add	49.52	
For 2-1/8" Mesh Fabric, Deduct	-24.76	
For Gate With Single Barb Wire Arm, Add	31.30	
For Gate With Double Barb Wire Arm, Add	45.53	
32 31 13 13-0434 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	457.79	46.30
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.76	
For 1" Mesh Fabric, Add	138.64	
For 1-1/4" Mesh Fabric, Add	89.24	
For 1-3/4" Mesh Fabric, Add	55.46	
For 2-1/8" Mesh Fabric, Deduct	-27.73	
For Gate With Single Barb Wire Arm, Add	35.06	
For Gate With Double Barb Wire Arm, Add	50.99	
32 31 13 13-0435 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	509.20	52.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.16	
For 1" Mesh Fabric, Add	153.49	
For 1-1/4" Mesh Fabric, Add	98.80	
For 1-3/4" Mesh Fabric, Add	61.40	
For 2-1/8" Mesh Fabric, Deduct	-30.70	
For Gate With Single Barb Wire Arm, Add	38.81	
For Gate With Double Barb Wire Arm, Add	56.46	
32 31 13 13-0436 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	560.60	57.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.56	
For 1" Mesh Fabric, Add	168.35	
For 1-1/4" Mesh Fabric, Add	108.36	
For 1-3/4" Mesh Fabric, Add	67.34	
For 2-1/8" Mesh Fabric, Deduct	-33.67	
For Gate With Single Barb Wire Arm, Add	42.57	
For Gate With Double Barb Wire Arm, Add	61.92	
32 31 13 13-0437 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	720.40	57.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.44	
For 1" Mesh Fabric, Add	237.67	
For 1-1/4" Mesh Fabric, Add	152.98	
For 1-3/4" Mesh Fabric, Add	95.07	
For 2-1/8" Mesh Fabric, Deduct	-47.53	
For Gate With Single Barb Wire Arm, Add	60.10	
For Gate With Double Barb Wire Arm, Add	87.42	
32 31 13 13-0438 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	843.06	62.44
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.93	
For 1" Mesh Fabric, Add	285.20	
For 1-1/4" Mesh Fabric, Add	183.58	
For 1-3/4" Mesh Fabric, Add	114.08	
For 2-1/8" Mesh Fabric, Deduct	-57.04	
For Gate With Single Barb Wire Arm, Add	72.12	
For Gate With Double Barb Wire Arm, Add	104.90	
32 31 13 13-0439 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	967.94	67.61
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-143.42	
For 1" Mesh Fabric, Add	332.73	
For 1-1/4" Mesh Fabric, Add	214.17	
For 1-3/4" Mesh Fabric, Add	133.09	
For 2-1/8" Mesh Fabric, Deduct	-66.55	
For Gate With Single Barb Wire Arm, Add	84.14	
For Gate With Double Barb Wire Arm, Add	122.38	
32 31 13 13-0440 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,130.09	85.18
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.91	
For 1" Mesh Fabric, Add	380.26	
For 1-1/4" Mesh Fabric, Add	244.77	
For 1-3/4" Mesh Fabric, Add	152.11	
For 2-1/8" Mesh Fabric, Deduct	-76.05	
For Gate With Single Barb Wire Arm, Add	96.16	
For Gate With Double Barb Wire Arm, Add	139.87	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0441	EA 18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,257.63 -184.40 427.80 275.36 171.12 -85.56 108.18 157.35	91.29
32 31 13 13-0442	EA 20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,388.00 -204.88 475.33 305.96 190.13 -95.07 120.20 174.83	98.36
32 31 13 13-0443	EA 22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,521.88 -225.37 522.87 336.56 209.15 -104.57 132.22 192.32	106.52
32 31 13 13-0444	EA 24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,660.24 -245.86 570.40 367.15 228.16 -114.08 144.24 209.80	116.24
32 31 13 13-0445	EA 26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,804.40 -266.35 617.93 397.75 247.17 -123.59 156.26 227.28	127.87
32 31 13 13-0446	EA 28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,956.33 -286.84 665.46 428.34 266.19 -133.09 168.28 244.77	142.03
32 31 13 13-0447	EA 30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,118.92 -307.33 713.00 458.94 285.20 -142.60 180.30 262.25	159.79
32 31 13 13-0448	6' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0449	EA 3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	232.99 -27.37 63.50 40.87 25.40 -12.70 16.06 23.36	28.93
32 31 13 13-0450	EA 4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	281.65 -36.49 84.66 54.50 33.87 -16.93 21.41 31.14	28.93
32 31 13 13-0451	EA 5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	323.51 -43.34 100.54 64.72 40.22 -20.11 25.42 36.98	30.76



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0452 EA 6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	379.29	37.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.18	
For 1" Mesh Fabric, Add	116.41	
For 1-1/4" Mesh Fabric, Add	74.93	
For 1-3/4" Mesh Fabric, Add	46.57	
For 2-1/8" Mesh Fabric, Deduct	-23.28	
For Gate With Single Barb Wire Arm, Add	29.44	
For Gate With Double Barb Wire Arm, Add	42.82	
32 31 13 13-0453 EA 7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	435.08	43.65
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.02	
For 1" Mesh Fabric, Add	132.29	
For 1-1/4" Mesh Fabric, Add	85.15	
For 1-3/4" Mesh Fabric, Add	52.92	
For 2-1/8" Mesh Fabric, Deduct	-26.46	
For Gate With Single Barb Wire Arm, Add	33.45	
For Gate With Double Barb Wire Arm, Add	48.66	
32 31 13 13-0454 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	489.84	49.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.86	
For 1" Mesh Fabric, Add	148.17	
For 1-1/4" Mesh Fabric, Add	95.37	
For 1-3/4" Mesh Fabric, Add	59.27	
For 2-1/8" Mesh Fabric, Deduct	-29.63	
For Gate With Single Barb Wire Arm, Add	37.47	
For Gate With Double Barb Wire Arm, Add	54.50	
32 31 13 13-0455 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	545.64	56.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.71	
For 1" Mesh Fabric, Add	164.04	
For 1-1/4" Mesh Fabric, Add	105.59	
For 1-3/4" Mesh Fabric, Add	65.62	
For 2-1/8" Mesh Fabric, Deduct	-32.81	
For Gate With Single Barb Wire Arm, Add	41.48	
For Gate With Double Barb Wire Arm, Add	60.34	
32 31 13 13-0456 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	601.42	62.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.55	
For 1" Mesh Fabric, Add	179.92	
For 1-1/4" Mesh Fabric, Add	115.81	
For 1-3/4" Mesh Fabric, Add	71.97	
For 2-1/8" Mesh Fabric, Deduct	-35.98	
For Gate With Single Barb Wire Arm, Add	45.50	
For Gate With Double Barb Wire Arm, Add	66.18	
32 31 13 13-0457 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	771.33	62.44
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.48	
For 1" Mesh Fabric, Add	254.00	
For 1-1/4" Mesh Fabric, Add	163.49	
For 1-3/4" Mesh Fabric, Add	101.60	
For 2-1/8" Mesh Fabric, Deduct	-50.80	
For Gate With Single Barb Wire Arm, Add	64.23	
For Gate With Double Barb Wire Arm, Add	93.42	
32 31 13 13-0458 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	903.72	67.61
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.38	
For 1" Mesh Fabric, Add	304.80	
For 1-1/4" Mesh Fabric, Add	196.19	
For 1-3/4" Mesh Fabric, Add	121.92	
For 2-1/8" Mesh Fabric, Deduct	-60.96	
For Gate With Single Barb Wire Arm, Add	77.07	
For Gate With Double Barb Wire Arm, Add	112.11	
32 31 13 13-0459 EA 14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,091.65	91.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.27	
For 1" Mesh Fabric, Add	355.60	
For 1-1/4" Mesh Fabric, Add	228.89	
For 1-3/4" Mesh Fabric, Add	142.24	
For 2-1/8" Mesh Fabric, Deduct	-71.12	
For Gate With Single Barb Wire Arm, Add	89.92	
For Gate With Double Barb Wire Arm, Add	130.79	
32 31 13 13-0460 EA 16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,229.53	98.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.17	
For 1" Mesh Fabric, Add	406.39	
For 1-1/4" Mesh Fabric, Add	261.59	
For 1-3/4" Mesh Fabric, Add	162.56	
For 2-1/8" Mesh Fabric, Deduct	-81.28	
For Gate With Single Barb Wire Arm, Add	102.77	
For Gate With Double Barb Wire Arm, Add	149.48	
32 31 13 13-0461 EA 18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,370.91	106.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.07	
For 1" Mesh Fabric, Add	457.19	
For 1-1/4" Mesh Fabric, Add	294.29	
For 1-3/4" Mesh Fabric, Add	182.88	
For 2-1/8" Mesh Fabric, Deduct	-91.44	
For Gate With Single Barb Wire Arm, Add	115.61	
For Gate With Double Barb Wire Arm, Add	168.16	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0462	EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,538.36	116.24
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-223.01	
	For 1" Mesh Fabric, Add	517.38	
	For 1-1/4" Mesh Fabric, Add	333.03	
	For 1-3/4" Mesh Fabric, Add	206.95	
	For 2-1/8" Mesh Fabric, Deduct	-103.48	
	For Gate With Single Barb Wire Arm, Add	130.83	
	For Gate With Double Barb Wire Arm, Add	190.30	
32 31 13 13-0463	EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,672.37	127.87
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.59	
	For 1" Mesh Fabric, Add	560.50	
	For 1-1/4" Mesh Fabric, Add	360.78	
	For 1-3/4" Mesh Fabric, Add	224.20	
	For 2-1/8" Mesh Fabric, Deduct	-112.10	
	For Gate With Single Barb Wire Arm, Add	141.74	
	For Gate With Double Barb Wire Arm, Add	206.16	
32 31 13 13-0464	EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,827.89	142.03
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-262.76	
	For 1" Mesh Fabric, Add	609.59	
	For 1-1/4" Mesh Fabric, Add	392.38	
	For 1-3/4" Mesh Fabric, Add	243.84	
	For 2-1/8" Mesh Fabric, Deduct	-121.92	
	For Gate With Single Barb Wire Arm, Add	154.15	
	For Gate With Double Barb Wire Arm, Add	224.22	
32 31 13 13-0465	EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,997.99	159.79
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-284.65	
	For 1" Mesh Fabric, Add	660.39	
	For 1-1/4" Mesh Fabric, Add	425.08	
	For 1-3/4" Mesh Fabric, Add	264.16	
	For 2-1/8" Mesh Fabric, Deduct	-132.08	
	For Gate With Single Barb Wire Arm, Add	167.00	
	For Gate With Double Barb Wire Arm, Add	242.90	
32 31 13 13-0466	EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,183.31	182.58
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.55	
	For 1" Mesh Fabric, Add	711.19	
	For 1-1/4" Mesh Fabric, Add	457.78	
	For 1-3/4" Mesh Fabric, Add	284.48	
	For 2-1/8" Mesh Fabric, Deduct	-142.24	
	For Gate With Single Barb Wire Arm, Add	179.84	
	For Gate With Double Barb Wire Arm, Add	261.59	
32 31 13 13-0467	EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,391.49	213.05
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-328.44	
	For 1" Mesh Fabric, Add	761.99	
	For 1-1/4" Mesh Fabric, Add	490.48	
	For 1-3/4" Mesh Fabric, Add	304.80	
	For 2-1/8" Mesh Fabric, Deduct	-152.40	
	For Gate With Single Barb Wire Arm, Add	192.69	
	For Gate With Double Barb Wire Arm, Add	280.27	
32 31 13 13-0468	7' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0469	EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	247.03	31.17
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.75	
	For 1" Mesh Fabric, Add	66.69	
	For 1-1/4" Mesh Fabric, Add	42.93	
	For 1-3/4" Mesh Fabric, Add	26.68	
	For 2-1/8" Mesh Fabric, Deduct	-13.34	
	For Gate With Single Barb Wire Arm, Add	16.87	
	For Gate With Double Barb Wire Arm, Add	24.53	
32 31 13 13-0470	EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	298.14	31.17
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.33	
	For 1" Mesh Fabric, Add	88.93	
	For 1-1/4" Mesh Fabric, Add	57.24	
	For 1-3/4" Mesh Fabric, Add	35.57	
	For 2-1/8" Mesh Fabric, Deduct	-17.79	
	For Gate With Single Barb Wire Arm, Add	22.49	
	For Gate With Double Barb Wire Arm, Add	32.71	
32 31 13 13-0471	EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	341.26	32.79
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.52	
	For 1" Mesh Fabric, Add	105.61	
	For 1-1/4" Mesh Fabric, Add	67.98	
	For 1-3/4" Mesh Fabric, Add	42.24	
	For 2-1/8" Mesh Fabric, Deduct	-21.12	
	For Gate With Single Barb Wire Arm, Add	26.71	
	For Gate With Double Barb Wire Arm, Add	38.84	
32 31 13 13-0472	EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	400.89	39.89
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-52.71	
	For 1" Mesh Fabric, Add	122.28	
	For 1-1/4" Mesh Fabric, Add	78.71	
	For 1-3/4" Mesh Fabric, Add	48.91	
	For 2-1/8" Mesh Fabric, Deduct	-24.46	
	For Gate With Single Barb Wire Arm, Add	30.92	
	For Gate With Double Barb Wire Arm, Add	44.98	



	Exterior Improvements	32
	Site Improvements	32 30
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0473 EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	459.54	46.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.90	
For 1" Mesh Fabric, Add	138.96	
For 1-1/4" Mesh Fabric, Add	89.44	
For 1-3/4" Mesh Fabric, Add	55.58	
For 2-1/8" Mesh Fabric, Deduct	-27.79	
For Gate With Single Barb Wire Arm, Add	35.14	
For Gate With Double Barb Wire Arm, Add	51.11	
32 31 13 13-0474 EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	519.20	53.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.08	
For 1" Mesh Fabric, Add	155.63	
For 1-1/4" Mesh Fabric, Add	100.18	
For 1-3/4" Mesh Fabric, Add	62.25	
For 2-1/8" Mesh Fabric, Deduct	-31.13	
For Gate With Single Barb Wire Arm, Add	39.36	
For Gate With Double Barb Wire Arm, Add	57.24	
32 31 13 13-0475 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	577.82	60.51
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-74.27	
For 1" Mesh Fabric, Add	172.30	
For 1-1/4" Mesh Fabric, Add	110.91	
For 1-3/4" Mesh Fabric, Add	68.92	
For 2-1/8" Mesh Fabric, Deduct	-34.46	
For Gate With Single Barb Wire Arm, Add	43.57	
For Gate With Double Barb Wire Arm, Add	63.38	
32 31 13 13-0476 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	637.48	67.61
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.46	
For 1" Mesh Fabric, Add	188.98	
For 1-1/4" Mesh Fabric, Add	121.64	
For 1-3/4" Mesh Fabric, Add	75.59	
For 2-1/8" Mesh Fabric, Deduct	-37.80	
For Gate With Single Barb Wire Arm, Add	47.79	
For Gate With Double Barb Wire Arm, Add	69.51	
32 31 13 13-0477 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	816.36	67.61
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.00	
For 1" Mesh Fabric, Add	266.79	
For 1-1/4" Mesh Fabric, Add	171.73	
For 1-3/4" Mesh Fabric, Add	106.72	
For 2-1/8" Mesh Fabric, Deduct	-53.36	
For Gate With Single Barb Wire Arm, Add	67.47	
For Gate With Double Barb Wire Arm, Add	98.13	
32 31 13 13-0478 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,010.15	91.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.99	
For 1" Mesh Fabric, Add	320.14	
For 1-1/4" Mesh Fabric, Add	206.07	
For 1-3/4" Mesh Fabric, Add	128.06	
For 2-1/8" Mesh Fabric, Deduct	-64.03	
For Gate With Single Barb Wire Arm, Add	80.96	
For Gate With Double Barb Wire Arm, Add	117.75	
32 31 13 13-0479 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,153.93	98.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.00	
For 1" Mesh Fabric, Add	373.51	
For 1-1/4" Mesh Fabric, Add	240.42	
For 1-3/4" Mesh Fabric, Add	149.40	
For 2-1/8" Mesh Fabric, Deduct	-74.70	
For Gate With Single Barb Wire Arm, Add	94.45	
For Gate With Double Barb Wire Arm, Add	137.38	
32 31 13 13-0480 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,301.17	106.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.99	
For 1" Mesh Fabric, Add	426.86	
For 1-1/4" Mesh Fabric, Add	274.76	
For 1-3/4" Mesh Fabric, Add	170.74	
For 2-1/8" Mesh Fabric, Deduct	-85.37	
For Gate With Single Barb Wire Arm, Add	107.94	
For Gate With Double Barb Wire Arm, Add	157.00	
32 31 13 13-0481 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,452.94	116.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-206.99	
For 1" Mesh Fabric, Add	480.22	
For 1-1/4" Mesh Fabric, Add	309.11	
For 1-3/4" Mesh Fabric, Add	192.09	
For 2-1/8" Mesh Fabric, Deduct	-96.04	
For Gate With Single Barb Wire Arm, Add	121.44	
For Gate With Double Barb Wire Arm, Add	176.63	
32 31 13 13-0482 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,610.47	127.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.99	
For 1" Mesh Fabric, Add	533.57	
For 1-1/4" Mesh Fabric, Add	343.45	
For 1-3/4" Mesh Fabric, Add	213.43	
For 2-1/8" Mesh Fabric, Deduct	-106.71	
For Gate With Single Barb Wire Arm, Add	134.93	
For Gate With Double Barb Wire Arm, Add	196.26	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0483	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,775.78 -252.98 586.92 377.79 234.77 -117.38 148.42 215.88	142.03
32 31 13	13-0484	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,951.77 -275.99 640.29 412.14 256.11 -128.06 161.91 235.51	159.79
32 31 13	13-0485	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,142.99 -298.99 693.65 446.49 277.46 -138.73 175.41 255.14	182.58
32 31 13	13-0486	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,357.04 -321.98 747.00 480.83 298.80 -149.40 188.90 274.76	213.05
32 31 13	13-0487	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,607.67 -344.99 800.37 515.18 320.15 -160.07 202.39 294.39	255.63
32 31 13	13-0488	EA	8' Fence Height (32 31 13 13-0407)		
32 31 13	13-0489	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	287.36 -34.85 80.84 52.04 32.34 -16.17 20.44 29.73	33.81
32 31 13	13-0490	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	349.31 -46.46 107.79 69.38 43.12 -21.56 27.26 39.65	33.81
32 31 13	13-0491	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	390.61 -54.20 125.75 80.95 50.30 -25.15 31.80 46.25	33.81
32 31 13	13-0492	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	458.30 -61.95 143.72 92.51 57.49 -28.74 36.34 52.86	42.64
32 31 13	13-0493	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	525.99 -69.69 161.68 104.07 64.67 -32.34 40.88 59.47	51.37



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0494 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	592.68	59.79
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.43	
For 1" Mesh Fabric, Add	179.65	
For 1-1/4" Mesh Fabric, Add	115.63	
For 1-3/4" Mesh Fabric, Add	71.86	
For 2-1/8" Mesh Fabric, Deduct	-35.93	
For Gate With Single Barb Wire Arm, Add	45.43	
For Gate With Double Barb Wire Arm, Add	66.08	
32 31 13 13-0495 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	660.37	68.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.18	
For 1" Mesh Fabric, Add	197.61	
For 1-1/4" Mesh Fabric, Add	127.20	
For 1-3/4" Mesh Fabric, Add	79.04	
For 2-1/8" Mesh Fabric, Deduct	-39.52	
For Gate With Single Barb Wire Arm, Add	49.97	
For Gate With Double Barb Wire Arm, Add	72.68	
32 31 13 13-0496 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	728.06	77.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.92	
For 1" Mesh Fabric, Add	215.58	
For 1-1/4" Mesh Fabric, Add	138.76	
For 1-3/4" Mesh Fabric, Add	86.23	
For 2-1/8" Mesh Fabric, Deduct	-43.12	
For Gate With Single Barb Wire Arm, Add	54.51	
For Gate With Double Barb Wire Arm, Add	79.29	
32 31 13 13-0497 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,017.54	91.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.38	
For 1" Mesh Fabric, Add	323.36	
For 1-1/4" Mesh Fabric, Add	208.14	
For 1-3/4" Mesh Fabric, Add	129.34	
For 2-1/8" Mesh Fabric, Deduct	-64.67	
For Gate With Single Barb Wire Arm, Add	81.77	
For Gate With Double Barb Wire Arm, Add	118.94	
32 31 13 13-0498 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,187.32	98.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.26	
For 1" Mesh Fabric, Add	388.03	
For 1-1/4" Mesh Fabric, Add	249.77	
For 1-3/4" Mesh Fabric, Add	155.21	
For 2-1/8" Mesh Fabric, Deduct	-77.61	
For Gate With Single Barb Wire Arm, Add	98.12	
For Gate With Double Barb Wire Arm, Add	142.72	
32 31 13 13-0499 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,360.59	106.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-195.13	
For 1" Mesh Fabric, Add	452.70	
For 1-1/4" Mesh Fabric, Add	291.40	
For 1-3/4" Mesh Fabric, Add	181.08	
For 2-1/8" Mesh Fabric, Deduct	-90.54	
For Gate With Single Barb Wire Arm, Add	114.48	
For Gate With Double Barb Wire Arm, Add	166.51	
32 31 13 13-0500 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,538.35	116.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-223.01	
For 1" Mesh Fabric, Add	517.38	
For 1-1/4" Mesh Fabric, Add	333.02	
For 1-3/4" Mesh Fabric, Add	206.95	
For 2-1/8" Mesh Fabric, Deduct	-103.48	
For Gate With Single Barb Wire Arm, Add	130.83	
For Gate With Double Barb Wire Arm, Add	190.30	
32 31 13 13-0501 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,721.91	127.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-250.88	
For 1" Mesh Fabric, Add	582.05	
For 1-1/4" Mesh Fabric, Add	374.65	
For 1-3/4" Mesh Fabric, Add	232.82	
For 2-1/8" Mesh Fabric, Deduct	-116.41	
For Gate With Single Barb Wire Arm, Add	147.18	
For Gate With Double Barb Wire Arm, Add	214.09	
32 31 13 13-0502 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,913.24	142.03
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-278.76	
For 1" Mesh Fabric, Add	646.72	
For 1-1/4" Mesh Fabric, Add	416.28	
For 1-3/4" Mesh Fabric, Add	258.69	
For 2-1/8" Mesh Fabric, Deduct	-129.34	
For Gate With Single Barb Wire Arm, Add	163.54	
For Gate With Double Barb Wire Arm, Add	237.87	
32 31 13 13-0503 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,115.23	159.79
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.63	
For 1" Mesh Fabric, Add	711.39	
For 1-1/4" Mesh Fabric, Add	457.91	
For 1-3/4" Mesh Fabric, Add	284.56	
For 2-1/8" Mesh Fabric, Deduct	-142.28	
For Gate With Single Barb Wire Arm, Add	179.89	
For Gate With Double Barb Wire Arm, Add	261.66	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0504	EA 24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,332.44	182.58
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-334.51	
	For 1" Mesh Fabric, Add	776.06	
	For 1-1/4" Mesh Fabric, Add	499.53	
	For 1-3/4" Mesh Fabric, Add	310.42	
	For 2-1/8" Mesh Fabric, Deduct	-155.21	
	For Gate With Single Barb Wire Arm, Add	196.25	
	For Gate With Double Barb Wire Arm, Add	285.45	
32 31 13 13-0505	EA 26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,572.51	213.05
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-362.39	
	For 1" Mesh Fabric, Add	840.73	
	For 1-1/4" Mesh Fabric, Add	541.16	
	For 1-3/4" Mesh Fabric, Add	336.29	
	For 2-1/8" Mesh Fabric, Deduct	-168.15	
	For Gate With Single Barb Wire Arm, Add	212.60	
	For Gate With Double Barb Wire Arm, Add	309.24	
32 31 13 13-0506	EA 28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,849.14	255.63
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-390.26	
	For 1" Mesh Fabric, Add	905.40	
	For 1-1/4" Mesh Fabric, Add	582.79	
	For 1-3/4" Mesh Fabric, Add	362.16	
	For 2-1/8" Mesh Fabric, Deduct	-181.08	
	For Gate With Single Barb Wire Arm, Add	228.95	
	For Gate With Double Barb Wire Arm, Add	333.02	
32 31 13 13-0507	EA 30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,189.74	319.57
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.14	
	For 1" Mesh Fabric, Add	970.08	
	For 1-1/4" Mesh Fabric, Add	624.42	
	For 1-3/4" Mesh Fabric, Add	388.03	
	For 2-1/8" Mesh Fabric, Deduct	-194.02	
	For Gate With Single Barb Wire Arm, Add	245.31	
	For Gate With Double Barb Wire Arm, Add	356.81	
32 31 13 13-0508	10' Fence Height (32 31 13 13-0407)		
32 31 13 13-0509	EA 3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	328.38	37.56
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.42	
	For 1" Mesh Fabric, Add	93.78	
	For 1-1/4" Mesh Fabric, Add	60.36	
	For 1-3/4" Mesh Fabric, Add	37.51	
	For 2-1/8" Mesh Fabric, Deduct	-18.76	
	For Gate With Single Barb Wire Arm, Add	23.71	
	For Gate With Double Barb Wire Arm, Add	34.49	
32 31 13 13-0510	EA 4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	400.24	37.56
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.90	
	For 1" Mesh Fabric, Add	125.04	
	For 1-1/4" Mesh Fabric, Add	80.48	
	For 1-3/4" Mesh Fabric, Add	50.01	
	For 2-1/8" Mesh Fabric, Deduct	-25.01	
	For Gate With Single Barb Wire Arm, Add	31.62	
	For Gate With Double Barb Wire Arm, Add	45.99	
32 31 13 13-0511	EA 5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	453.12	39.19
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.88	
	For 1" Mesh Fabric, Add	145.88	
	For 1-1/4" Mesh Fabric, Add	93.90	
	For 1-3/4" Mesh Fabric, Add	58.35	
	For 2-1/8" Mesh Fabric, Deduct	-29.18	
	For Gate With Single Barb Wire Arm, Add	36.89	
	For Gate With Double Barb Wire Arm, Add	53.66	
32 31 13 13-0512	EA 6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	529.45	48.73
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.86	
	For 1" Mesh Fabric, Add	166.72	
	For 1-1/4" Mesh Fabric, Add	107.31	
	For 1-3/4" Mesh Fabric, Add	66.69	
	For 2-1/8" Mesh Fabric, Deduct	-33.34	
	For Gate With Single Barb Wire Arm, Add	42.16	
	For Gate With Double Barb Wire Arm, Add	61.32	
32 31 13 13-0513	EA 7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	604.76	57.77
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.84	
	For 1" Mesh Fabric, Add	187.55	
	For 1-1/4" Mesh Fabric, Add	120.72	
	For 1-3/4" Mesh Fabric, Add	75.02	
	For 2-1/8" Mesh Fabric, Deduct	-37.51	
	For Gate With Single Barb Wire Arm, Add	47.43	
	For Gate With Double Barb Wire Arm, Add	68.99	
32 31 13 13-0514	EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	681.10	67.31
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.83	
	For 1" Mesh Fabric, Add	208.40	
	For 1-1/4" Mesh Fabric, Add	134.14	
	For 1-3/4" Mesh Fabric, Add	83.36	
	For 2-1/8" Mesh Fabric, Deduct	-41.68	
	For Gate With Single Barb Wire Arm, Add	52.70	
	For Gate With Double Barb Wire Arm, Add	76.65	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0515 EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	756.42	76.45
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.81	
For 1" Mesh Fabric, Add	229.24	
For 1-1/4" Mesh Fabric, Add	147.56	
For 1-3/4" Mesh Fabric, Add	91.70	
For 2-1/8" Mesh Fabric, Deduct	-45.85	
For Gate With Single Barb Wire Arm, Add	57.97	
For Gate With Double Barb Wire Arm, Add	84.32	
32 31 13 13-0516 EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	832.77	85.88
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.79	
For 1" Mesh Fabric, Add	250.08	
For 1-1/4" Mesh Fabric, Add	160.97	
For 1-3/4" Mesh Fabric, Add	100.03	
For 2-1/8" Mesh Fabric, Deduct	-50.02	
For Gate With Single Barb Wire Arm, Add	63.24	
For Gate With Double Barb Wire Arm, Add	91.98	
32 31 13 13-0517 EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,166.99	101.49
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.69	
For 1" Mesh Fabric, Add	375.11	
For 1-1/4" Mesh Fabric, Add	241.45	
For 1-3/4" Mesh Fabric, Add	150.05	
For 2-1/8" Mesh Fabric, Deduct	-75.02	
For Gate With Single Barb Wire Arm, Add	94.86	
For Gate With Double Barb Wire Arm, Add	137.97	
32 31 13 13-0518 EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,362.79	109.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-194.03	
For 1" Mesh Fabric, Add	450.14	
For 1-1/4" Mesh Fabric, Add	289.74	
For 1-3/4" Mesh Fabric, Add	180.06	
For 2-1/8" Mesh Fabric, Deduct	-90.03	
For Gate With Single Barb Wire Arm, Add	113.83	
For Gate With Double Barb Wire Arm, Add	165.57	
32 31 13 13-0519 EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,562.70	118.40
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.36	
For 1" Mesh Fabric, Add	525.16	
For 1-1/4" Mesh Fabric, Add	338.03	
For 1-3/4" Mesh Fabric, Add	210.06	
For 2-1/8" Mesh Fabric, Deduct	-105.03	
For Gate With Single Barb Wire Arm, Add	132.80	
For Gate With Double Barb Wire Arm, Add	193.16	
32 31 13 13-0520 EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,767.32	129.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.70	
For 1" Mesh Fabric, Add	600.18	
For 1-1/4" Mesh Fabric, Add	386.32	
For 1-3/4" Mesh Fabric, Add	240.07	
For 2-1/8" Mesh Fabric, Deduct	-120.04	
For Gate With Single Barb Wire Arm, Add	151.77	
For Gate With Double Barb Wire Arm, Add	220.76	
32 31 13 13-0521 EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,978.72	142.03
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-291.04	
For 1" Mesh Fabric, Add	675.20	
For 1-1/4" Mesh Fabric, Add	434.61	
For 1-3/4" Mesh Fabric, Add	270.08	
For 2-1/8" Mesh Fabric, Deduct	-135.04	
For Gate With Single Barb Wire Arm, Add	170.74	
For Gate With Double Barb Wire Arm, Add	248.35	
32 31 13 13-0522 EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,198.34	157.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-323.37	
For 1" Mesh Fabric, Add	750.22	
For 1-1/4" Mesh Fabric, Add	482.90	
For 1-3/4" Mesh Fabric, Add	300.09	
For 2-1/8" Mesh Fabric, Deduct	-150.04	
For Gate With Single Barb Wire Arm, Add	189.71	
For Gate With Double Barb Wire Arm, Add	275.94	
32 31 13 13-0523 EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,430.28	177.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-355.71	
For 1" Mesh Fabric, Add	825.25	
For 1-1/4" Mesh Fabric, Add	531.19	
For 1-3/4" Mesh Fabric, Add	330.10	
For 2-1/8" Mesh Fabric, Deduct	-165.05	
For Gate With Single Barb Wire Arm, Add	208.68	
For Gate With Double Barb Wire Arm, Add	303.54	
32 31 13 13-0524 EA 24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,678.52	202.74
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-388.05	
For 1" Mesh Fabric, Add	900.27	
For 1-1/4" Mesh Fabric, Add	579.49	
For 1-3/4" Mesh Fabric, Add	360.11	
For 2-1/8" Mesh Fabric, Deduct	-180.05	
For Gate With Single Barb Wire Arm, Add	227.65	
For Gate With Double Barb Wire Arm, Add	331.13	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0525	EA 26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,952.92	236.69
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-420.38	
	For 1" Mesh Fabric, Add	975.29	
	For 1-1/4" Mesh Fabric, Add	627.77	
	For 1-3/4" Mesh Fabric, Add	390.12	
	For 2-1/8" Mesh Fabric, Deduct	-195.06	
	For Gate With Single Barb Wire Arm, Add	246.63	
	For Gate With Double Barb Wire Arm, Add	358.73	
32 31 13 13-0526	EA 28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,266.81	283.82
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-452.72	
	For 1" Mesh Fabric, Add	1,050.32	
	For 1-1/4" Mesh Fabric, Add	676.07	
	For 1-3/4" Mesh Fabric, Add	420.13	
	For 2-1/8" Mesh Fabric, Deduct	-210.06	
	For Gate With Single Barb Wire Arm, Add	265.60	
	For Gate With Double Barb Wire Arm, Add	386.32	
32 31 13 13-0527	EA 30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,653.29	355.08
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-485.06	
	For 1" Mesh Fabric, Add	1,125.34	
	For 1-1/4" Mesh Fabric, Add	724.35	
	For 1-3/4" Mesh Fabric, Add	450.13	
	For 2-1/8" Mesh Fabric, Deduct	-225.07	
	For Gate With Single Barb Wire Arm, Add	284.57	
	For Gate With Double Barb Wire Arm, Add	413.92	
32 31 13 13-0528	12' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0529	EA 3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	425.99	41.73
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.37	
	For 1" Mesh Fabric, Add	130.78	
	For 1-1/4" Mesh Fabric, Add	84.18	
	For 1-3/4" Mesh Fabric, Add	52.31	
	For 2-1/8" Mesh Fabric, Deduct	-26.16	
	For Gate With Single Barb Wire Arm, Add	33.07	
	For Gate With Double Barb Wire Arm, Add	48.10	
32 31 13 13-0530	EA 4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	525.93	41.73
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.11	
	For 1" Mesh Fabric, Add	174.26	
	For 1-1/4" Mesh Fabric, Add	112.17	
	For 1-3/4" Mesh Fabric, Add	69.70	
	For 2-1/8" Mesh Fabric, Deduct	-34.85	
	For Gate With Single Barb Wire Arm, Add	44.06	
	For Gate With Double Barb Wire Arm, Add	64.09	
32 31 13 13-0531	EA 5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	604.88	43.25
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.05	
	For 1" Mesh Fabric, Add	206.59	
	For 1-1/4" Mesh Fabric, Add	132.98	
	For 1-3/4" Mesh Fabric, Add	82.64	
	For 2-1/8" Mesh Fabric, Deduct	-41.32	
	For Gate With Single Barb Wire Arm, Add	52.24	
	For Gate With Double Barb Wire Arm, Add	75.99	
32 31 13 13-0532	EA 6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	698.29	53.71
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.66	
	For 1" Mesh Fabric, Add	233.54	
	For 1-1/4" Mesh Fabric, Add	150.32	
	For 1-3/4" Mesh Fabric, Add	93.42	
	For 2-1/8" Mesh Fabric, Deduct	-46.71	
	For Gate With Single Barb Wire Arm, Add	59.06	
	For Gate With Double Barb Wire Arm, Add	85.90	
32 31 13 13-0533	EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	798.60	64.26
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.57	
	For 1" Mesh Fabric, Add	263.48	
	For 1-1/4" Mesh Fabric, Add	169.60	
	For 1-3/4" Mesh Fabric, Add	105.39	
	For 2-1/8" Mesh Fabric, Deduct	-52.70	
	For Gate With Single Barb Wire Arm, Add	66.63	
	For Gate With Double Barb Wire Arm, Add	96.91	
32 31 13 13-0534	EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	897.89	74.41
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.47	
	For 1" Mesh Fabric, Add	293.42	
	For 1-1/4" Mesh Fabric, Add	188.87	
	For 1-3/4" Mesh Fabric, Add	117.37	
	For 2-1/8" Mesh Fabric, Deduct	-58.68	
	For Gate With Single Barb Wire Arm, Add	74.20	
	For Gate With Double Barb Wire Arm, Add	107.92	
32 31 13 13-0535	EA 9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	998.18	84.88
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.38	
	For 1" Mesh Fabric, Add	323.36	
	For 1-1/4" Mesh Fabric, Add	208.14	
	For 1-3/4" Mesh Fabric, Add	129.34	
	For 2-1/8" Mesh Fabric, Deduct	-64.67	
	For Gate With Single Barb Wire Arm, Add	81.77	
	For Gate With Double Barb Wire Arm, Add	118.94	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0536 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,091.61	95.33
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.00	
For 1" Mesh Fabric, Add	350.31	
For 1-1/4" Mesh Fabric, Add	225.49	
For 1-3/4" Mesh Fabric, Add	140.12	
For 2-1/8" Mesh Fabric, Deduct	-70.06	
For Gate With Single Barb Wire Arm, Add	88.58	
For Gate With Double Barb Wire Arm, Add	128.85	
32 31 13 13-0537 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,545.94	112.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.42	
For 1" Mesh Fabric, Add	525.28	
For 1-1/4" Mesh Fabric, Add	338.11	
For 1-3/4" Mesh Fabric, Add	210.11	
For 2-1/8" Mesh Fabric, Deduct	-105.06	
For Gate With Single Barb Wire Arm, Add	132.83	
For Gate With Double Barb Wire Arm, Add	193.21	
32 31 13 13-0538 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,852.73	121.40
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.07	
For 1" Mesh Fabric, Add	647.45	
For 1-1/4" Mesh Fabric, Add	416.75	
For 1-3/4" Mesh Fabric, Add	258.98	
For 2-1/8" Mesh Fabric, Deduct	-129.49	
For Gate With Single Barb Wire Arm, Add	163.72	
For Gate With Double Barb Wire Arm, Add	238.14	
32 31 13 13-0539 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,132.75	131.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.84	
For 1" Mesh Fabric, Add	755.95	
For 1-1/4" Mesh Fabric, Add	486.59	
For 1-3/4" Mesh Fabric, Add	302.38	
For 2-1/8" Mesh Fabric, Deduct	-151.19	
For Gate With Single Barb Wire Arm, Add	191.16	
For Gate With Double Barb Wire Arm, Add	278.05	
32 31 13 13-0540 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,416.35	143.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-372.30	
For 1" Mesh Fabric, Add	863.74	
For 1-1/4" Mesh Fabric, Add	555.97	
For 1-3/4" Mesh Fabric, Add	345.50	
For 2-1/8" Mesh Fabric, Deduct	-172.75	
For Gate With Single Barb Wire Arm, Add	218.42	
For Gate With Double Barb Wire Arm, Add	317.70	
32 31 13 13-0541 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,704.01	157.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.14	
For 1" Mesh Fabric, Add	970.09	
For 1-1/4" Mesh Fabric, Add	624.43	
For 1-3/4" Mesh Fabric, Add	388.04	
For 2-1/8" Mesh Fabric, Deduct	-194.02	
For Gate With Single Barb Wire Arm, Add	245.31	
For Gate With Double Barb Wire Arm, Add	356.81	
32 31 13 13-0542 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,004.03	175.26
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-464.60	
For 1" Mesh Fabric, Add	1,077.88	
For 1-1/4" Mesh Fabric, Add	693.81	
For 1-3/4" Mesh Fabric, Add	431.15	
For 2-1/8" Mesh Fabric, Deduct	-215.58	
For Gate With Single Barb Wire Arm, Add	272.57	
For Gate With Double Barb Wire Arm, Add	396.46	
32 31 13 13-0543 EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,318.06	197.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-511.06	
For 1" Mesh Fabric, Add	1,185.67	
For 1-1/4" Mesh Fabric, Add	763.19	
For 1-3/4" Mesh Fabric, Add	474.27	
For 2-1/8" Mesh Fabric, Deduct	-237.13	
For Gate With Single Barb Wire Arm, Add	299.82	
For Gate With Double Barb Wire Arm, Add	436.11	
32 31 13 13-0544 EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,650.06	225.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-557.52	
For 1" Mesh Fabric, Add	1,293.46	
For 1-1/4" Mesh Fabric, Add	832.57	
For 1-3/4" Mesh Fabric, Add	517.38	
For 2-1/8" Mesh Fabric, Deduct	-258.69	
For Gate With Single Barb Wire Arm, Add	327.08	
For Gate With Double Barb Wire Arm, Add	475.75	
32 31 13 13-0545 EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,019.36	263.07
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-605.53	
For 1" Mesh Fabric, Add	1,404.83	
For 1-1/4" Mesh Fabric, Add	904.26	
For 1-3/4" Mesh Fabric, Add	561.93	
For 2-1/8" Mesh Fabric, Deduct	-280.97	
For Gate With Single Barb Wire Arm, Add	355.25	
For Gate With Double Barb Wire Arm, Add	516.72	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0546	EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,424.29	315.38
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-651.99	
	<i>For 1" Mesh Fabric, Add</i>	1,512.62	
	<i>For 1-1/4" Mesh Fabric, Add</i>	973.64	
	<i>For 1-3/4" Mesh Fabric, Add</i>	605.05	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-302.52	
	<i>For Gate With Single Barb Wire Arm, Add</i>	382.50	
	<i>For Gate With Double Barb Wire Arm, Add</i>	556.37	
32 31 13 13-0547	EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,909.87	394.55
	<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-698.45	
	<i>For 1" Mesh Fabric, Add</i>	1,620.41	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,043.02	
	<i>For 1-3/4" Mesh Fabric, Add</i>	648.16	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-324.08	
	<i>For Gate With Single Barb Wire Arm, Add</i>	409.76	
	<i>For Gate With Double Barb Wire Arm, Add</i>	596.01	
32 31 13 13-0548	Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0265)</small>		
	Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0644 for additional gate accessories, 32 31 13 13-0737 for gate replacement parts.		
32 31 13 13-0549	4' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13 13-0550	EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,065.28	389.39
	<i>For 1" Mesh Fabric, Add</i>	994.60	
	<i>For 1-1/4" Mesh Fabric, Add</i>	640.20	
	<i>For 1-3/4" Mesh Fabric, Add</i>	397.84	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-198.92	
	<i>For Gate With Barb Wire Arm, Add</i>	251.51	
	<i>For Vinyl Coated, Add</i>	685.93	
32 31 13 13-0551	EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,683.86	470.13
	<i>For 1" Mesh Fabric, Add</i>	1,193.52	
	<i>For 1-1/4" Mesh Fabric, Add</i>	768.24	
	<i>For 1-3/4" Mesh Fabric, Add</i>	477.41	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-238.70	
	<i>For Gate With Barb Wire Arm, Add</i>	301.81	
	<i>For Vinyl Coated, Add</i>	823.12	
32 31 13 13-0552	EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,298.05	548.46
	<i>For 1" Mesh Fabric, Add</i>	1,392.44	
	<i>For 1-1/4" Mesh Fabric, Add</i>	896.29	
	<i>For 1-3/4" Mesh Fabric, Add</i>	556.98	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-278.49	
	<i>For Gate With Barb Wire Arm, Add</i>	352.11	
	<i>For Vinyl Coated, Add</i>	960.31	
32 31 13 13-0553	EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,919.06	630.40
	<i>For 1" Mesh Fabric, Add</i>	1,591.36	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,024.33	
	<i>For 1-3/4" Mesh Fabric, Add</i>	636.55	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-318.27	
	<i>For Gate With Barb Wire Arm, Add</i>	402.41	
	<i>For Vinyl Coated, Add</i>	1,097.49	
32 31 13 13-0554	EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,533.99	709.20
	<i>For 1" Mesh Fabric, Add</i>	1,790.29	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,152.37	
	<i>For 1-3/4" Mesh Fabric, Add</i>	716.11	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-358.06	
	<i>For Gate With Barb Wire Arm, Add</i>	452.72	
	<i>For Vinyl Coated, Add</i>	1,234.68	
32 31 13 13-0555	EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	6,134.37	780.71
	<i>For 1" Mesh Fabric, Add</i>	1,989.21	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,280.41	
	<i>For 1-3/4" Mesh Fabric, Add</i>	795.68	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-397.84	
	<i>For Gate With Barb Wire Arm, Add</i>	503.02	
	<i>For Vinyl Coated, Add</i>	1,371.87	
32 31 13 13-0556	EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,327.46	940.13
	<i>For 1" Mesh Fabric, Add</i>	2,369.53	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,525.22	
	<i>For 1-3/4" Mesh Fabric, Add</i>	947.81	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-473.91	
	<i>For Gate With Barb Wire Arm, Add</i>	599.19	
	<i>For Vinyl Coated, Add</i>	1,634.16	
32 31 13 13-0557	EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	10,408.45	1,774.58
	<i>For 1" Mesh Fabric, Add</i>	2,983.81	
	<i>For 1-1/4" Mesh Fabric, Add</i>	1,920.61	
	<i>For 1-3/4" Mesh Fabric, Add</i>	1,193.52	
	<i>For 2-1/8" Mesh Fabric, Deduct</i>	-596.76	
	<i>For Gate With Barb Wire Arm, Add</i>	754.53	
	<i>For Vinyl Coated, Add</i>	2,057.80	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31
			32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0558	EA	40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	13,877.94	2,366.10
			For 1" Mesh Fabric, Add	3,978.41	
			For 1-1/4" Mesh Fabric, Add	2,560.82	
			For 1-3/4" Mesh Fabric, Add	1,591.36	
			For 2-1/8" Mesh Fabric, Deduct	-795.68	
			For Gate With Barb Wire Arm, Add	1,006.03	
			For Vinyl Coated, Add	2,743.73	
32 31	13 13-0559		5' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31	13 13-0560	EA	10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,201.27	423.82
			For 1" Mesh Fabric, Add	1,023.83	
			For 1-1/4" Mesh Fabric, Add	659.02	
			For 1-3/4" Mesh Fabric, Add	409.53	
			For 2-1/8" Mesh Fabric, Deduct	-204.77	
			For Gate With Barb Wire Arm, Add	258.90	
			For Vinyl Coated, Add	706.09	
32 31	13 13-0561	EA	12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,840.34	508.04
			For 1" Mesh Fabric, Add	1,228.60	
			For 1-1/4" Mesh Fabric, Add	790.82	
			For 1-3/4" Mesh Fabric, Add	491.44	
			For 2-1/8" Mesh Fabric, Deduct	-245.72	
			For Gate With Barb Wire Arm, Add	310.68	
			For Vinyl Coated, Add	847.31	
32 31	13 13-0562	EA	14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,480.18	592.60
			For 1" Mesh Fabric, Add	1,433.37	
			For 1-1/4" Mesh Fabric, Add	922.63	
			For 1-3/4" Mesh Fabric, Add	573.35	
			For 2-1/8" Mesh Fabric, Deduct	-286.67	
			For Gate With Barb Wire Arm, Add	362.46	
			For Vinyl Coated, Add	988.53	
32 31	13 13-0563	EA	16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,120.54	677.42
			For 1" Mesh Fabric, Add	1,638.14	
			For 1-1/4" Mesh Fabric, Add	1,054.43	
			For 1-3/4" Mesh Fabric, Add	655.25	
			For 2-1/8" Mesh Fabric, Deduct	-327.63	
			For Gate With Barb Wire Arm, Add	414.24	
			For Vinyl Coated, Add	1,129.75	
32 31	13 13-0564	EA	18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,760.34	761.87
			For 1" Mesh Fabric, Add	1,842.90	
			For 1-1/4" Mesh Fabric, Add	1,186.23	
			For 1-3/4" Mesh Fabric, Add	737.16	
			For 2-1/8" Mesh Fabric, Deduct	-368.58	
			For Gate With Barb Wire Arm, Add	466.02	
			For Vinyl Coated, Add	1,270.97	
32 31	13 13-0565	EA	20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,400.44	846.56
			For 1" Mesh Fabric, Add	2,047.67	
			For 1-1/4" Mesh Fabric, Add	1,318.04	
			For 1-3/4" Mesh Fabric, Add	819.07	
			For 2-1/8" Mesh Fabric, Deduct	-409.53	
			For Gate With Barb Wire Arm, Add	517.80	
			For Vinyl Coated, Add	1,412.18	
32 31	13 13-0566	EA	24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	7,641.39	1,017.02
			For 1" Mesh Fabric, Add	2,439.18	
			For 1-1/4" Mesh Fabric, Add	1,570.04	
			For 1-3/4" Mesh Fabric, Add	975.67	
			For 2-1/8" Mesh Fabric, Deduct	-487.84	
			For Gate With Barb Wire Arm, Add	616.80	
			For Vinyl Coated, Add	1,682.19	
32 31	13 13-0567	EA	30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	9,601.11	1,270.14
			For 1" Mesh Fabric, Add	3,071.50	
			For 1-1/4" Mesh Fabric, Add	1,977.06	
			For 1-3/4" Mesh Fabric, Add	1,228.60	
			For 2-1/8" Mesh Fabric, Deduct	-614.30	
			For Gate With Barb Wire Arm, Add	776.70	
			For Vinyl Coated, Add	2,118.28	
32 31	13 13-0568	EA	40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	12,800.88	1,693.12
			For 1" Mesh Fabric, Add	4,095.33	
			For 1-1/4" Mesh Fabric, Add	2,636.08	
			For 1-3/4" Mesh Fabric, Add	1,638.13	
			For 2-1/8" Mesh Fabric, Deduct	-819.07	
			For Gate With Barb Wire Arm, Add	1,035.60	
			For Vinyl Coated, Add	2,824.37	
32 31	13 13-0569		6' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31	13 13-0570	EA	10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,394.35	496.87
			For 1" Mesh Fabric, Add	1,044.30	
			For 1-1/4" Mesh Fabric, Add	672.19	
			For 1-3/4" Mesh Fabric, Add	417.72	
			For 2-1/8" Mesh Fabric, Deduct	-208.86	
			For Gate With Barb Wire Arm, Add	264.07	
			For Vinyl Coated, Add	720.20	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13	0571	EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,069.72	594.40
			For 1" Mesh Fabric, Add	1,253.16	
			For 1-1/4" Mesh Fabric, Add	806.63	
			For 1-3/4" Mesh Fabric, Add	501.26	
			For 2-1/8" Mesh Fabric, Deduct	-250.63	
			For Gate With Barb Wire Arm, Add	316.89	
			For Vinyl Coated, Add	864.25	
32 31 13	13	0572	EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,747.77	693.37
			For 1" Mesh Fabric, Add	1,462.01	
			For 1-1/4" Mesh Fabric, Add	941.07	
			For 1-3/4" Mesh Fabric, Add	584.81	
			For 2-1/8" Mesh Fabric, Deduct	-292.40	
			For Gate With Barb Wire Arm, Add	369.70	
			For Vinyl Coated, Add	1,008.29	
32 31 13	13	0573	EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,426.29	792.58
			For 1" Mesh Fabric, Add	1,670.87	
			For 1-1/4" Mesh Fabric, Add	1,075.51	
			For 1-3/4" Mesh Fabric, Add	668.35	
			For 2-1/8" Mesh Fabric, Deduct	-334.17	
			For Gate With Barb Wire Arm, Add	422.52	
			For Vinyl Coated, Add	1,152.33	
32 31 13	13	0574	EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,104.36	891.54
			For 1" Mesh Fabric, Add	1,879.73	
			For 1-1/4" Mesh Fabric, Add	1,209.94	
			For 1-3/4" Mesh Fabric, Add	751.89	
			For 2-1/8" Mesh Fabric, Deduct	-375.95	
			For Gate With Barb Wire Arm, Add	475.33	
			For Vinyl Coated, Add	1,296.37	
32 31 13	13	0575	EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,789.10	993.87
			For 1" Mesh Fabric, Add	2,088.59	
			For 1-1/4" Mesh Fabric, Add	1,344.38	
			For 1-3/4" Mesh Fabric, Add	835.44	
			For 2-1/8" Mesh Fabric, Deduct	-417.72	
			For Gate With Barb Wire Arm, Add	528.15	
			For Vinyl Coated, Add	1,440.41	
32 31 13	13	0576	EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	8,097.18	1,188.92
			For 1" Mesh Fabric, Add	2,487.93	
			For 1-1/4" Mesh Fabric, Add	1,601.42	
			For 1-3/4" Mesh Fabric, Add	995.17	
			For 2-1/8" Mesh Fabric, Deduct	-497.59	
			For Gate With Barb Wire Arm, Add	629.13	
			For Vinyl Coated, Add	1,715.81	
32 31 13	13	0577	EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	10,175.03	1,486.55
			For 1" Mesh Fabric, Add	3,132.89	
			For 1-1/4" Mesh Fabric, Add	2,016.57	
			For 1-3/4" Mesh Fabric, Add	1,253.15	
			For 2-1/8" Mesh Fabric, Deduct	-626.58	
			For Gate With Barb Wire Arm, Add	792.22	
			For Vinyl Coated, Add	2,160.61	
32 31 13	13	0578	EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	13,565.08	1,981.14
			For 1" Mesh Fabric, Add	4,177.18	
			For 1-1/4" Mesh Fabric, Add	2,688.76	
			For 1-3/4" Mesh Fabric, Add	1,670.87	
			For 2-1/8" Mesh Fabric, Deduct	-835.44	
			For Gate With Barb Wire Arm, Add	1,056.30	
			For Vinyl Coated, Add	2,880.82	
32 31 13	13	0579	7' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13	13	0580	EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,603.20	554.21
			For 1" Mesh Fabric, Add	1,085.22	
			For 1-1/4" Mesh Fabric, Add	698.53	
			For 1-3/4" Mesh Fabric, Add	434.09	
			For 2-1/8" Mesh Fabric, Deduct	-217.04	
			For Gate With Barb Wire Arm, Add	274.42	
			For Vinyl Coated, Add	748.43	
32 31 13	13	0581	EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,323.01	664.58
			For 1" Mesh Fabric, Add	1,302.30	
			For 1-1/4" Mesh Fabric, Add	838.26	
			For 1-3/4" Mesh Fabric, Add	520.92	
			For 2-1/8" Mesh Fabric, Deduct	-260.46	
			For Gate With Barb Wire Arm, Add	329.32	
			For Vinyl Coated, Add	898.14	
32 31 13	13	0582	EA 14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,044.54	775.91
			For 1" Mesh Fabric, Add	1,519.30	
			For 1-1/4" Mesh Fabric, Add	977.94	
			For 1-3/4" Mesh Fabric, Add	607.72	
			For 2-1/8" Mesh Fabric, Deduct	-303.86	
			For Gate With Barb Wire Arm, Add	384.19	
			For Vinyl Coated, Add	1,047.80	
32 31 13	13	0583	EA 16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,764.22	886.27
			For 1" Mesh Fabric, Add	1,736.35	
			For 1-1/4" Mesh Fabric, Add	1,117.65	
			For 1-3/4" Mesh Fabric, Add	694.54	
			For 2-1/8" Mesh Fabric, Deduct	-347.27	
			For Gate With Barb Wire Arm, Add	439.08	
			For Vinyl Coated, Add	1,197.49	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0584 EA 18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,484.91	997.23
For 1" Mesh Fabric, Add	1,953.39	
For 1-1/4" Mesh Fabric, Add	1,257.36	
For 1-3/4" Mesh Fabric, Add	781.36	
For 2-1/8" Mesh Fabric, Deduct	-390.68	
For Gate With Barb Wire Arm, Add	493.96	
For Vinyl Coated, Add	1,347.17	
32 31 13 13-0585 EA 20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	7,204.87	1,107.71
For 1" Mesh Fabric, Add	2,170.45	
For 1-1/4" Mesh Fabric, Add	1,397.07	
For 1-3/4" Mesh Fabric, Add	868.18	
For 2-1/8" Mesh Fabric, Deduct	-434.09	
For Gate With Barb Wire Arm, Add	548.85	
For Vinyl Coated, Add	1,496.86	
32 31 13 13-0586 EA 24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	8,601.90	1,329.16
For 1" Mesh Fabric, Add	2,585.42	
For 1-1/4" Mesh Fabric, Add	1,664.18	
For 1-3/4" Mesh Fabric, Add	1,034.17	
For 2-1/8" Mesh Fabric, Deduct	-517.08	
For Gate With Barb Wire Arm, Add	653.79	
For Vinyl Coated, Add	1,783.05	
32 31 13 13-0587 EA 30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	10,807.27	1,661.45
For 1" Mesh Fabric, Add	3,255.66	
For 1-1/4" Mesh Fabric, Add	2,095.60	
For 1-3/4" Mesh Fabric, Add	1,302.26	
For 2-1/8" Mesh Fabric, Deduct	-651.13	
For Gate With Barb Wire Arm, Add	823.27	
For Vinyl Coated, Add	2,245.28	
32 31 13 13-0588 EA 40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	14,409.70	2,215.31
For 1" Mesh Fabric, Add	4,340.88	
For 1-1/4" Mesh Fabric, Add	2,794.13	
For 1-3/4" Mesh Fabric, Add	1,736.35	
For 2-1/8" Mesh Fabric, Deduct	-868.18	
For Gate With Barb Wire Arm, Add	1,097.69	
For Vinyl Coated, Add	2,993.71	
32 31 13 13-0589 8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0590 EA 10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,769.50	600.40
For 1" Mesh Fabric, Add	1,117.38	
For 1-1/4" Mesh Fabric, Add	719.23	
For 1-3/4" Mesh Fabric, Add	446.95	
For 2-1/8" Mesh Fabric, Deduct	-223.48	
For Gate With Barb Wire Arm, Add	282.56	
For Vinyl Coated, Add	770.61	
32 31 13 13-0591 EA 12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,519.93	718.80
For 1" Mesh Fabric, Add	1,340.85	
For 1-1/4" Mesh Fabric, Add	863.08	
For 1-3/4" Mesh Fabric, Add	536.34	
For 2-1/8" Mesh Fabric, Deduct	-268.17	
For Gate With Barb Wire Arm, Add	339.07	
For Vinyl Coated, Add	924.73	
32 31 13 13-0592 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,273.32	838.64
For 1" Mesh Fabric, Add	1,564.32	
For 1-1/4" Mesh Fabric, Add	1,006.92	
For 1-3/4" Mesh Fabric, Add	625.73	
For 2-1/8" Mesh Fabric, Deduct	-312.86	
For Gate With Barb Wire Arm, Add	395.58	
For Vinyl Coated, Add	1,078.84	
32 31 13 13-0593 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,026.95	958.48
For 1" Mesh Fabric, Add	1,787.80	
For 1-1/4" Mesh Fabric, Add	1,150.77	
For 1-3/4" Mesh Fabric, Add	715.12	
For 2-1/8" Mesh Fabric, Deduct	-357.56	
For Gate With Barb Wire Arm, Add	452.09	
For Vinyl Coated, Add	1,232.96	
32 31 13 13-0594 EA 18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,779.24	1,077.84
For 1" Mesh Fabric, Add	2,011.27	
For 1-1/4" Mesh Fabric, Add	1,294.61	
For 1-3/4" Mesh Fabric, Add	804.51	
For 2-1/8" Mesh Fabric, Deduct	-402.25	
For Gate With Barb Wire Arm, Add	508.60	
For Vinyl Coated, Add	1,387.08	
32 31 13 13-0595 EA 20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	7,532.97	1,197.80
For 1" Mesh Fabric, Add	2,234.75	
For 1-1/4" Mesh Fabric, Add	1,438.46	
For 1-3/4" Mesh Fabric, Add	893.90	
For 2-1/8" Mesh Fabric, Deduct	-446.95	
For Gate With Barb Wire Arm, Add	565.11	
For Vinyl Coated, Add	1,541.21	
32 31 13 13-0596 EA 24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,994.62	1,437.48
For 1" Mesh Fabric, Add	2,662.03	
For 1-1/4" Mesh Fabric, Add	1,713.49	
For 1-3/4" Mesh Fabric, Add	1,064.81	
For 2-1/8" Mesh Fabric, Deduct	-532.41	
For Gate With Barb Wire Arm, Add	673.16	
For Vinyl Coated, Add	1,835.88	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0597 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	11,300.36	1,797.13
For 1" Mesh Fabric, Add	3,352.13	
For 1-1/4" Mesh Fabric, Add	2,157.69	
For 1-3/4" Mesh Fabric, Add	1,340.85	
For 2-1/8" Mesh Fabric, Deduct	-670.43	
For Gate With Barb Wire Arm, Add	847.66	
For Vinyl Coated, Add	2,311.81	
32 31 13 13-0598 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	15,063.53	2,394.41
For 1" Mesh Fabric, Add	4,469.49	
For 1-1/4" Mesh Fabric, Add	2,876.92	
For 1-3/4" Mesh Fabric, Add	1,787.80	
For 2-1/8" Mesh Fabric, Deduct	-893.90	
For Gate With Barb Wire Arm, Add	1,130.22	
For Vinyl Coated, Add	3,082.41	
32 31 13 13-0599 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0600 EA 10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,966.00	654.98
For 1" Mesh Fabric, Add	1,155.37	
For 1-1/4" Mesh Fabric, Add	743.69	
For 1-3/4" Mesh Fabric, Add	462.15	
For 2-1/8" Mesh Fabric, Deduct	-231.07	
For Gate With Barb Wire Arm, Add	292.16	
For Vinyl Coated, Add	796.81	
32 31 13 13-0601 EA 12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,754.33	783.58
For 1" Mesh Fabric, Add	1,386.45	
For 1-1/4" Mesh Fabric, Add	892.43	
For 1-3/4" Mesh Fabric, Add	554.58	
For 2-1/8" Mesh Fabric, Deduct	-277.29	
For Gate With Barb Wire Arm, Add	350.60	
For Vinyl Coated, Add	956.17	
32 31 13 13-0602 EA 14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,546.42	913.98
For 1" Mesh Fabric, Add	1,617.53	
For 1-1/4" Mesh Fabric, Add	1,041.17	
For 1-3/4" Mesh Fabric, Add	647.01	
For 2-1/8" Mesh Fabric, Deduct	-323.51	
For Gate With Barb Wire Arm, Add	409.03	
For Vinyl Coated, Add	1,115.54	
32 31 13 13-0603 EA 16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,339.56	1,044.97
For 1" Mesh Fabric, Add	1,848.60	
For 1-1/4" Mesh Fabric, Add	1,189.90	
For 1-3/4" Mesh Fabric, Add	739.44	
For 2-1/8" Mesh Fabric, Deduct	-369.72	
For Gate With Barb Wire Arm, Add	467.46	
For Vinyl Coated, Add	1,274.90	
32 31 13 13-0604 EA 18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,131.88	1,175.49
For 1" Mesh Fabric, Add	2,079.67	
For 1-1/4" Mesh Fabric, Add	1,338.64	
For 1-3/4" Mesh Fabric, Add	831.87	
For 2-1/8" Mesh Fabric, Deduct	-415.93	
For Gate With Barb Wire Arm, Add	525.89	
For Vinyl Coated, Add	1,434.26	
32 31 13 13-0605 EA 20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,924.17	1,306.01
For 1" Mesh Fabric, Add	2,310.75	
For 1-1/4" Mesh Fabric, Add	1,487.38	
For 1-3/4" Mesh Fabric, Add	924.30	
For 2-1/8" Mesh Fabric, Deduct	-462.15	
For Gate With Barb Wire Arm, Add	584.33	
For Vinyl Coated, Add	1,593.62	
32 31 13 13-0606 EA 24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	9,461.89	1,567.04
For 1" Mesh Fabric, Add	2,752.56	
For 1-1/4" Mesh Fabric, Add	1,771.76	
For 1-3/4" Mesh Fabric, Add	1,101.02	
For 2-1/8" Mesh Fabric, Deduct	-550.51	
For Gate With Barb Wire Arm, Add	696.05	
For Vinyl Coated, Add	1,898.32	
32 31 13 13-0607 EA 30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	11,885.17	1,958.59
For 1" Mesh Fabric, Add	3,466.12	
For 1-1/4" Mesh Fabric, Add	2,231.07	
For 1-3/4" Mesh Fabric, Add	1,386.45	
For 2-1/8" Mesh Fabric, Deduct	-693.22	
For Gate With Barb Wire Arm, Add	876.49	
For Vinyl Coated, Add	2,390.43	
32 31 13 13-0608 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	15,851.18	2,613.57
For 1" Mesh Fabric, Add	4,621.51	
For 1-1/4" Mesh Fabric, Add	2,974.76	
For 1-3/4" Mesh Fabric, Add	1,848.60	
For 2-1/8" Mesh Fabric, Deduct	-924.30	
For Gate With Barb Wire Arm, Add	1,168.66	
For Vinyl Coated, Add	3,187.25	

32 31 13 13-0609 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)



Exterior Improvements	32	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0610	EA	10' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,211.23	720.49
			For 1" Mesh Fabric, Add	1,205.07	
			For 1-1/4" Mesh Fabric, Add	775.68	
			For 1-3/4" Mesh Fabric, Add	482.03	
			For 2-1/8" Mesh Fabric, Deduct	-241.01	
			For Gate With Barb Wire Arm, Add	304.73	
			For Vinyl Coated, Add	831.08	
32 31 13	13-0611	EA	12' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,053.49	864.55
			For 1" Mesh Fabric, Add	1,446.08	
			For 1-1/4" Mesh Fabric, Add	930.81	
			For 1-3/4" Mesh Fabric, Add	578.43	
			For 2-1/8" Mesh Fabric, Deduct	-289.22	
			For Gate With Barb Wire Arm, Add	365.68	
			For Vinyl Coated, Add	997.30	
32 31 13	13-0612	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,896.23	1,008.86
			For 1" Mesh Fabric, Add	1,687.10	
			For 1-1/4" Mesh Fabric, Add	1,085.95	
			For 1-3/4" Mesh Fabric, Add	674.84	
			For 2-1/8" Mesh Fabric, Deduct	-337.42	
			For Gate With Barb Wire Arm, Add	426.62	
			For Vinyl Coated, Add	1,163.52	
32 31 13	13-0613	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,738.28	1,152.94
			For 1" Mesh Fabric, Add	1,928.12	
			For 1-1/4" Mesh Fabric, Add	1,241.09	
			For 1-3/4" Mesh Fabric, Add	771.25	
			For 2-1/8" Mesh Fabric, Deduct	-385.62	
			For Gate With Barb Wire Arm, Add	487.57	
			For Vinyl Coated, Add	1,329.74	
32 31 13	13-0614	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	7,580.22	1,296.89
			For 1" Mesh Fabric, Add	2,169.12	
			For 1-1/4" Mesh Fabric, Add	1,396.21	
			For 1-3/4" Mesh Fabric, Add	867.65	
			For 2-1/8" Mesh Fabric, Deduct	-433.82	
			For Gate With Barb Wire Arm, Add	548.51	
			For Vinyl Coated, Add	1,495.94	
32 31 13	13-0615	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	8,422.47	1,440.96
			For 1" Mesh Fabric, Add	2,410.13	
			For 1-1/4" Mesh Fabric, Add	1,551.35	
			For 1-3/4" Mesh Fabric, Add	964.05	
			For 2-1/8" Mesh Fabric, Deduct	-482.03	
			For Gate With Barb Wire Arm, Add	609.46	
			For Vinyl Coated, Add	1,662.16	
32 31 13	13-0616	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	10,059.44	1,729.83
			For 1" Mesh Fabric, Add	2,870.95	
			For 1-1/4" Mesh Fabric, Add	1,847.97	
			For 1-3/4" Mesh Fabric, Add	1,148.38	
			For 2-1/8" Mesh Fabric, Deduct	-574.19	
			For Gate With Barb Wire Arm, Add	725.99	
			For Vinyl Coated, Add	1,979.96	
32 31 13	13-0617	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	12,633.70	2,161.44
			For 1" Mesh Fabric, Add	3,615.20	
			For 1-1/4" Mesh Fabric, Add	2,327.03	
			For 1-3/4" Mesh Fabric, Add	1,446.08	
			For 2-1/8" Mesh Fabric, Deduct	-723.04	
			For Gate With Barb Wire Arm, Add	914.19	
			For Vinyl Coated, Add	2,493.24	
32 31 13	13-0618	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	16,841.51	2,880.25
			For 1" Mesh Fabric, Add	4,820.28	
			For 1-1/4" Mesh Fabric, Add	3,102.71	
			For 1-3/4" Mesh Fabric, Add	1,928.11	
			For 2-1/8" Mesh Fabric, Deduct	-964.06	
			For Gate With Barb Wire Arm, Add	1,218.92	
			For Vinyl Coated, Add	3,324.33	

32 31 13 13-0619 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller⁽³²⁾

^{31 13 13-0265)}

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0021 for gate operators.

32 31 13	13-0620	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate.....	6,531.45	479.85
			For 1" Mesh Fabric, Add	2,423.72	
			For 1-1/4" Mesh Fabric, Add	1,560.10	
			For 1-3/4" Mesh Fabric, Add	969.49	
			For 2-1/8" Mesh Fabric, Deduct	-484.74	
			For Gate With Single Barb Wire Arm, Add	612.89	
			For Gate With Double Barb Wire Arm, Add	891.48	
			For Aluminized Steel Gate And Post, Add	2,674.45	
			For Powder Coated Gate And Post, Add	1,170.07	
			For Vinyl Coated, Add	1,671.53	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0621	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	7,150.66	599.80
			For 1" Mesh Fabric, Add	2,588.71	
			For 1-1/4" Mesh Fabric, Add	1,666.30	
			For 1-3/4" Mesh Fabric, Add	1,035.48	
			For 2-1/8" Mesh Fabric, Deduct	-517.74	
			For Gate With Single Barb Wire Arm, Add	654.62	
			For Gate With Double Barb Wire Arm, Add	952.17	
			For Aluminized Steel Gate And Post, Add	2,856.51	
			For Powder Coated Gate And Post, Add	1,249.72	
			For Vinyl Coated, Add	1,785.32	
32 31 13	13-0622	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,775.09	719.76
			For 1" Mesh Fabric, Add	2,755.97	
			For 1-1/4" Mesh Fabric, Add	1,773.96	
			For 1-3/4" Mesh Fabric, Add	1,102.39	
			For 2-1/8" Mesh Fabric, Deduct	-551.19	
			For Gate With Single Barb Wire Arm, Add	696.91	
			For Gate With Double Barb Wire Arm, Add	1,013.69	
			For Aluminized Steel Gate And Post, Add	3,041.07	
			For Powder Coated Gate And Post, Add	1,330.47	
			For Vinyl Coated, Add	1,900.67	
32 31 13	13-0623	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	9,099.66	959.68
			For 1" Mesh Fabric, Add	3,123.43	
			For 1-1/4" Mesh Fabric, Add	2,010.48	
			For 1-3/4" Mesh Fabric, Add	1,249.37	
			For 2-1/8" Mesh Fabric, Deduct	-624.69	
			For Gate With Single Barb Wire Arm, Add	789.83	
			For Gate With Double Barb Wire Arm, Add	1,148.85	
			For Aluminized Steel Gate And Post, Add	3,446.54	
			For Powder Coated Gate And Post, Add	1,507.86	
			For Vinyl Coated, Add	2,154.09	
32 31 13	13-0624	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	8,444.25	959.68
			For 1" Mesh Fabric, Add	2,838.32	
			For 1-1/4" Mesh Fabric, Add	1,826.97	
			For 1-3/4" Mesh Fabric, Add	1,135.33	
			For 2-1/8" Mesh Fabric, Deduct	-567.66	
			For Gate With Single Barb Wire Arm, Add	717.74	
			For Gate With Double Barb Wire Arm, Add	1,043.98	
			For Aluminized Steel Gate And Post, Add	3,131.94	
			For Powder Coated Gate And Post, Add	1,370.22	
			For Vinyl Coated, Add	1,957.46	
32 31 13	13-0625	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	9,867.48	1,259.58
			For 1" Mesh Fabric, Add	3,196.51	
			For 1-1/4" Mesh Fabric, Add	2,057.53	
			For 1-3/4" Mesh Fabric, Add	1,278.61	
			For 2-1/8" Mesh Fabric, Deduct	-639.30	
			For Gate With Single Barb Wire Arm, Add	808.31	
			For Gate With Double Barb Wire Arm, Add	1,175.73	
			For Aluminized Steel Gate And Post, Add	3,527.19	
			For Powder Coated Gate And Post, Add	1,543.15	
			For Vinyl Coated, Add	2,204.49	
32 31 13	13-0626	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	13,106.38	1,559.48
			For 1" Mesh Fabric, Add	4,344.52	
			For 1-1/4" Mesh Fabric, Add	2,796.47	
			For 1-3/4" Mesh Fabric, Add	1,737.81	
			For 2-1/8" Mesh Fabric, Deduct	-868.90	
			For Gate With Single Barb Wire Arm, Add	1,098.61	
			For Gate With Double Barb Wire Arm, Add	1,597.98	
			For Aluminized Steel Gate And Post, Add	4,793.95	
			For Powder Coated Gate And Post, Add	2,097.35	
			For Vinyl Coated, Add	2,996.22	
32 31 13	13-0627	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	14,741.12	1,859.38
			For 1" Mesh Fabric, Add	4,794.72	
			For 1-1/4" Mesh Fabric, Add	3,086.26	
			For 1-3/4" Mesh Fabric, Add	1,917.89	
			For 2-1/8" Mesh Fabric, Deduct	-958.94	
			For Gate With Single Barb Wire Arm, Add	1,212.46	
			For Gate With Double Barb Wire Arm, Add	1,763.57	
			For Aluminized Steel Gate And Post, Add	5,290.72	
			For Powder Coated Gate And Post, Add	2,314.69	
			For Vinyl Coated, Add	3,306.70	
32 31 13	13-0628	EA	6' High x 36' Wide Galvanized Cantilever Sliding Gate.....	17,305.47	2,039.33
			For 1" Mesh Fabric, Add	5,753.66	
			For 1-1/4" Mesh Fabric, Add	3,703.51	
			For 1-3/4" Mesh Fabric, Add	2,301.46	
			For 2-1/8" Mesh Fabric, Deduct	-1,150.73	
			For Gate With Single Barb Wire Arm, Add	1,454.95	
			For Gate With Double Barb Wire Arm, Add	2,116.29	
			For Aluminized Steel Gate And Post, Add	6,348.87	
			For Powder Coated Gate And Post, Add	2,777.63	
			For Vinyl Coated, Add	3,968.04	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0629 EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	9,864.37	1,199.60
For 1" Mesh Fabric, Add	3,247.34	
For 1-1/4" Mesh Fabric, Add	2,090.24	
For 1-3/4" Mesh Fabric, Add	1,298.94	
For 2-1/8" Mesh Fabric, Deduct	-649.47	
For Gate With Single Barb Wire Arm, Add	821.17	
For Gate With Double Barb Wire Arm, Add	1,194.43	
For Aluminized Steel Gate And Post, Add	3,583.28	
For Powder Coated Gate And Post, Add	1,567.68	
For Vinyl Coated, Add	2,239.55	
32 31 13 13-0630 EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	11,644.79	1,619.46
For 1" Mesh Fabric, Add	3,656.55	
For 1-1/4" Mesh Fabric, Add	2,353.64	
For 1-3/4" Mesh Fabric, Add	1,462.62	
For 2-1/8" Mesh Fabric, Deduct	-731.31	
For Gate With Single Barb Wire Arm, Add	924.64	
For Gate With Double Barb Wire Arm, Add	1,344.94	
For Aluminized Steel Gate And Post, Add	4,034.81	
For Powder Coated Gate And Post, Add	1,765.23	
For Vinyl Coated, Add	2,521.76	
32 31 13 13-0631 EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	15,503.36	2,039.33
For 1" Mesh Fabric, Add	4,969.74	
For 1-1/4" Mesh Fabric, Add	3,198.92	
For 1-3/4" Mesh Fabric, Add	1,987.90	
For 2-1/8" Mesh Fabric, Deduct	-993.95	
For Gate With Single Barb Wire Arm, Add	1,256.72	
For Gate With Double Barb Wire Arm, Add	1,827.95	
For Aluminized Steel Gate And Post, Add	5,483.86	
For Powder Coated Gate And Post, Add	2,399.19	
For Vinyl Coated, Add	3,427.41	
32 31 13 13-0632 EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	17,405.55	2,399.21
For 1" Mesh Fabric, Add	5,484.11	
For 1-1/4" Mesh Fabric, Add	3,530.00	
For 1-3/4" Mesh Fabric, Add	2,193.64	
For 2-1/8" Mesh Fabric, Deduct	-1,096.82	
For Gate With Single Barb Wire Arm, Add	1,386.79	
For Gate With Double Barb Wire Arm, Add	2,017.14	
For Aluminized Steel Gate And Post, Add	6,051.43	
For Powder Coated Gate And Post, Add	2,647.50	
For Vinyl Coated, Add	3,782.14	
32 31 13 13-0633 EA 8' High x 36' Wide Galvanized Cantilever Sliding Gate.....	20,406.83	2,639.13
For 1" Mesh Fabric, Add	6,580.93	
For 1-1/4" Mesh Fabric, Add	4,236.00	
For 1-3/4" Mesh Fabric, Add	2,632.37	
For 2-1/8" Mesh Fabric, Deduct	-1,316.19	
For Gate With Single Barb Wire Arm, Add	1,664.14	
For Gate With Double Barb Wire Arm, Add	2,420.57	
For Aluminized Steel Gate And Post, Add	7,261.71	
For Powder Coated Gate And Post, Add	3,177.00	
For Vinyl Coated, Add	4,538.57	
32 31 13 13-0634 EA 10' High x 15' Wide Galvanized Cantilever Sliding Gate.....	11,277.35	1,439.53
For 1" Mesh Fabric, Add	3,653.26	
For 1-1/4" Mesh Fabric, Add	2,351.52	
For 1-3/4" Mesh Fabric, Add	1,461.30	
For 2-1/8" Mesh Fabric, Deduct	-730.65	
For Gate With Single Barb Wire Arm, Add	923.81	
For Gate With Double Barb Wire Arm, Add	1,343.73	
For Aluminized Steel Gate And Post, Add	4,031.18	
For Powder Coated Gate And Post, Add	1,763.64	
For Vinyl Coated, Add	2,519.49	
32 31 13 13-0635 EA 10' High x 20' Wide Galvanized Cantilever Sliding Gate.....	13,070.29	1,859.38
For 1" Mesh Fabric, Add	4,067.91	
For 1-1/4" Mesh Fabric, Add	2,618.42	
For 1-3/4" Mesh Fabric, Add	1,627.16	
For 2-1/8" Mesh Fabric, Deduct	-813.58	
For Gate With Single Barb Wire Arm, Add	1,028.67	
For Gate With Double Barb Wire Arm, Add	1,496.24	
For Aluminized Steel Gate And Post, Add	4,488.72	
For Powder Coated Gate And Post, Add	1,963.82	
For Vinyl Coated, Add	2,805.45	
32 31 13 13-0636 EA 10' High x 25' Wide Galvanized Cantilever Sliding Gate.....	17,171.37	2,159.28
For 1" Mesh Fabric, Add	5,590.96	
For 1-1/4" Mesh Fabric, Add	3,598.78	
For 1-3/4" Mesh Fabric, Add	2,236.39	
For 2-1/8" Mesh Fabric, Deduct	-1,118.19	
For Gate With Single Barb Wire Arm, Add	1,413.81	
For Gate With Double Barb Wire Arm, Add	2,056.45	
For Aluminized Steel Gate And Post, Add	6,169.34	
For Powder Coated Gate And Post, Add	2,699.09	
For Vinyl Coated, Add	3,855.84	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0637	EA	10' High x 30' Wide Galvanized Cantilever Sliding Gate.....	19,221.37	2,519.17
			<i>For 1" Mesh Fabric, Add</i>	6,169.62	
			<i>For 1-1/4" Mesh Fabric, Add</i>	3,971.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2,467.85	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1,233.92	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,560.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	2,269.28	
			<i>For Aluminized Steel Gate And Post, Add</i>	6,807.85	
			<i>For Powder Coated Gate And Post, Add</i>	2,978.44	
			<i>For Vinyl Coated, Add</i>	4,254.91	
32 31 13	13-0638	EA	10' High x 36' Wide Galvanized Cantilever Sliding Gate.....	22,537.82	2,759.09
			<i>For 1" Mesh Fabric, Add</i>	7,403.54	
			<i>For 1-1/4" Mesh Fabric, Add</i>	4,765.50	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2,961.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1,480.71	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,872.16	
			<i>For Gate With Double Barb Wire Arm, Add</i>	2,723.14	
			<i>For Aluminized Steel Gate And Post, Add</i>	8,169.43	
			<i>For Powder Coated Gate And Post, Add</i>	3,574.12	
			<i>For Vinyl Coated, Add</i>	5,105.89	
32 31 13	13-0639	EA	12' High x 15' Wide Galvanized Cantilever Sliding Gate.....	13,316.89	1,619.46
			<i>For 1" Mesh Fabric, Add</i>	4,383.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,821.83	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,753.57	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-876.78	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,108.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,612.47	
			<i>For Aluminized Steel Gate And Post, Add</i>	4,837.42	
			<i>For Powder Coated Gate And Post, Add</i>	2,116.37	
			<i>For Vinyl Coated, Add</i>	3,023.39	
32 31 13	13-0640	EA	12' High x 20' Wide Galvanized Cantilever Sliding Gate.....	15,426.56	2,039.33
			<i>For 1" Mesh Fabric, Add</i>	4,936.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	3,177.41	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,974.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-987.27	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,248.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,815.66	
			<i>For Aluminized Steel Gate And Post, Add</i>	5,446.99	
			<i>For Powder Coated Gate And Post, Add</i>	2,383.06	
			<i>For Vinyl Coated, Add</i>	3,404.37	
32 31 13	13-0641	EA	12' High x 25' Wide Galvanized Cantilever Sliding Gate.....	20,101.80	2,339.23
			<i>For 1" Mesh Fabric, Add</i>	6,709.15	
			<i>For 1-1/4" Mesh Fabric, Add</i>	4,318.54	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2,683.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1,341.83	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,696.57	
			<i>For Gate With Double Barb Wire Arm, Add</i>	2,467.73	
			<i>For Aluminized Steel Gate And Post, Add</i>	7,403.20	
			<i>For Powder Coated Gate And Post, Add</i>	3,238.90	
			<i>For Vinyl Coated, Add</i>	4,627.00	
32 31 13	13-0642	EA	12' High x 30' Wide Galvanized Cantilever Sliding Gate.....	22,297.90	2,639.13
			<i>For 1" Mesh Fabric, Add</i>	7,403.54	
			<i>For 1-1/4" Mesh Fabric, Add</i>	4,765.50	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2,961.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1,480.71	
			<i>For Gate With Single Barb Wire Arm, Add</i>	1,872.16	
			<i>For Gate With Double Barb Wire Arm, Add</i>	2,723.14	
			<i>For Aluminized Steel Gate And Post, Add</i>	8,169.43	
			<i>For Powder Coated Gate And Post, Add</i>	3,574.12	
			<i>For Vinyl Coated, Add</i>	5,105.89	
32 31 13	13-0643	EA	12' High x 36' Wide Galvanized Cantilever Sliding Gate.....	25,299.16	2,879.05
			<i>For 1" Mesh Fabric, Add</i>	8,500.36	
			<i>For 1-1/4" Mesh Fabric, Add</i>	5,471.50	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3,400.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1,700.07	
			<i>For Gate With Single Barb Wire Arm, Add</i>	2,149.52	
			<i>For Gate With Double Barb Wire Arm, Add</i>	3,126.57	
			<i>For Aluminized Steel Gate And Post, Add</i>	9,379.71	
			<i>For Powder Coated Gate And Post, Add</i>	4,103.62	
			<i>For Vinyl Coated, Add</i>	5,862.32	
32 31 13	13-0644		Gate Accessories <small>(32 31 13 13-0265)</small>		
32 31 13	13-0645	EA	Gate Center Stop, Cast Steel, Ground.....	42.62	
32 31 13	13-0646	EA	Gate Latch, Malleable Galvanized Steel.....	56.49	
32 31 13	13-0647	EA	Gate Keeper, Full Length, Galvanized Steel.....	263.97	
32 31 13	13-0648	EA	Gate Keeper Hold-Open For Cantilever Gate.....	107.47	19.29
32 31 13	13-0649	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel.....	60.57	
32 31 13	13-0650	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	1,136.64	
32 31 13	13-0651	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate.....	1,217.93	
32 31 13	13-0652	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate.....	1,299.24	
32 31 13	13-0653	LF	Aluminum V-Groove Gate Track.....	63.00	10.94
32 31 13	13-0654	LF	Galvanized Steel V-Groove Gate Track.....	46.78	10.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0655 Vertical-Pivot Lift Gate <small>(32 31 13 13-0265)</small>		
Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0656 EA 5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	25,419.76	899.70
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0657 EA 5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	25,779.64	1,079.65
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0658 EA 5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	26,139.53	1,259.58
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	287.50	
32 31 13 13-0659 EA 5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	26,795.59	1,439.53
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0660 EA 5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	27,436.84	1,619.46
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0661 EA 6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	26,537.14	1,169.61
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0662 EA 6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	26,897.02	1,349.55
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0663 EA 6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	27,256.90	1,529.50
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	287.50	
32 31 13 13-0664 EA 6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	27,779.68	1,709.43
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0665 EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	28,554.21	1,889.38
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0666 Reinforced Gate <small>(32 31 13 13-0265)</small>		
Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.		
32 31 13 13-0667 LF Reinforced Single Gate, 4' High, Galvanized.....	596.04	12.18
For Vinyl Coated, Add	343.00	
For Powder Coated, Add	457.34	
For Aluminum Coated, Add	714.59	
32 31 13 13-0668 LF Reinforced Single Gate, 5' High, Galvanized.....	639.53	13.20
For Vinyl Coated, Add	367.88	
For Powder Coated, Add	490.50	
For Aluminum Coated, Add	766.41	
32 31 13 13-0669 LF Reinforced Single Gate, 6' High, Galvanized.....	682.57	14.72
For Vinyl Coated, Add	391.88	
For Powder Coated, Add	522.50	
For Aluminum Coated, Add	816.41	
32 31 13 13-0670 LF Reinforced Single Gate, 7' High, Galvanized.....	723.21	15.74
For Vinyl Coated, Add	415.04	
For Powder Coated, Add	553.38	
For Aluminum Coated, Add	864.66	
32 31 13 13-0671 LF Reinforced Single Gate, 8' High, Galvanized.....	765.17	17.76
For Vinyl Coated, Add	437.78	
For Powder Coated, Add	583.70	
For Aluminum Coated, Add	912.04	
32 31 13 13-0672 LF Reinforced Double Gate, 4' High, Galvanized.....	407.28	12.18
For Vinyl Coated, Add	229.75	
For Powder Coated, Add	306.33	
For Aluminum Coated, Add	478.64	
32 31 13 13-0673 LF Reinforced Double Gate, 5' High, Galvanized.....	457.21	13.20
For Vinyl Coated, Add	258.49	
For Powder Coated, Add	344.65	
For Aluminum Coated, Add	538.51	
32 31 13 13-0674 LF Reinforced Double Gate, 6' High, Galvanized.....	506.43	14.72
For Vinyl Coated, Add	286.19	
For Powder Coated, Add	381.59	
For Aluminum Coated, Add	596.24	
32 31 13 13-0675 LF Reinforced Double Gate, 7' High, Galvanized.....	650.21	15.74
For Vinyl Coated, Add	371.24	
For Powder Coated, Add	494.99	
For Aluminum Coated, Add	773.43	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0676	LF	Reinforced Double Gate, 8' High, Galvanized.....	792.61	17.76
			<i>For Vinyl Coated, Add</i>	454.24	
			<i>For Powder Coated, Add</i>	605.66	
			<i>For Aluminum Coated, Add</i>	946.34	
32 31 13	13-0677		Accessories (32 31 13 13)		
32 31 13	13-0678		Barbed And Concertina Wire (32 31 13 13-0677)		
32 31 13	13-0679		Single Strand Barbed Wire (32 31 13 13-0678)		
32 31 13	13-0680	LF	12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 1, Galvanized Barbed Wire, Per Strand.....	1.11	0.51
			Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
			<i>For >500 To 2,000, Deduct</i>	-0.05	
			<i>For >2,000 To 5,000, Deduct</i>	-0.08	
32 31 13	13-0681	LF	12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 3, Galvanized Barbed Wire, Per Strand.....	1.14	0.51
			<i>For >500 To 2,000, Deduct</i>	-0.05	
			<i>For >2,000 To 5,000, Deduct</i>	-0.08	
32 31 13	13-0682	LF	Vinyl Coated Barbed Wire (Fused), Per Strand	1.21	0.51
			Note: Includes clips.		
			<i>For >500 To 2,000, Deduct</i>	-0.05	
			<i>For >2,000 To 5,000, Deduct</i>	-0.08	
32 31 13	13-0683	EA	Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 3 Strand, 45 Degree, Galvanized Steel, Barbed Wire Single Arm.....	13.68	8.12
32 31 13	13-0684	EA	Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 6 Strand, 45 Degree, Galvanized Steel, Barbed Wire V-Barb Arm	22.10	9.74
32 31 13	13-0685	EA	Barbed Wire Eye Tops (For Single Strand).....	12.40	8.12
32 31 13	13-0686		Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0678)		
32 31 13	13-0687	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.44	0.71
			<i>For >500 To 1,500, Deduct</i>	-0.46	
			<i>For >1,500 To 5,000, Deduct</i>	-0.92	
			<i>For >5,000, Deduct</i>	-1.29	
			<i>For Ground Installation, Deduct</i>	-0.51	
			<i>For Double Coil (Helix), Add</i>	4.43	
32 31 13	13-0688	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.21	0.71
			<i>For >500 To 1,500, Deduct</i>	-0.69	
			<i>For >1,500 To 5,000, Deduct</i>	-1.38	
			<i>For >5,000, Deduct</i>	-1.95	
			<i>For Ground Installation, Deduct</i>	-0.76	
			<i>For Double Coil (Helix), Add</i>	6.69	
32 31 13	13-0689	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	10.88	0.71
			<i>For >500 To 1,500, Deduct</i>	-0.92	
			<i>For >1,500 To 5,000, Deduct</i>	-1.84	
			<i>For >5,000, Deduct</i>	-2.58	
			<i>For Ground Installation, Deduct</i>	-1.02	
			<i>For Double Coil (Helix), Add</i>	8.85	
32 31 13	13-0690	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	9.52	0.71
			<i>For >500 To 1,500, Deduct</i>	-0.77	
			<i>For >1,500 To 5,000, Deduct</i>	-1.54	
			<i>For >5,000, Deduct</i>	-2.13	
			<i>For Ground Installation, Deduct</i>	-0.56	
			<i>For Double Coil (Helix), Add</i>	8.40	
32 31 13	13-0691	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	14.39	0.71
			<i>For >500 To 1,500, Deduct</i>	-1.16	
			<i>For >1,500 To 5,000, Deduct</i>	-2.33	
			<i>For >5,000, Deduct</i>	-3.22	
			<i>For Ground Installation, Deduct</i>	-0.85	
			<i>For Double Coil (Helix), Add</i>	12.70	
32 31 13	13-0692	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	19.01	0.71
			<i>For >500 To 1,500, Deduct</i>	-1.54	
			<i>For >1,500 To 5,000, Deduct</i>	-3.08	
			<i>For >5,000, Deduct</i>	-4.25	
			<i>For Ground Installation, Deduct</i>	-1.12	
			<i>For Double Coil (Helix), Add</i>	16.77	
32 31 13	13-0693	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	31.04	0.71
			<i>For >500 To 1,500, Deduct</i>	-2.39	
			<i>For >1,500 To 5,000, Deduct</i>	-4.78	
			<i>For >5,000, Deduct</i>	-6.46	
			<i>For Ground Installation, Deduct</i>	-0.63	
			<i>For Double Coil (Helix), Add</i>	29.78	
32 31 13	13-0694	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	46.99	0.71
			<i>For >500 To 1,500, Deduct</i>	-3.62	
			<i>For >1,500 To 5,000, Deduct</i>	-7.24	
			<i>For >5,000, Deduct</i>	-9.78	
			<i>For Ground Installation, Deduct</i>	-0.95	
			<i>For Double Coil (Helix), Add</i>	45.09	



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0695 LF 30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	62.09	0.71
For >500 To 1,500, Deduct	-4.78	
For >1,500 To 5,000, Deduct	-9.57	
For >5,000, Deduct	-12.93	
For Ground Installation, Deduct	-1.27	
For Double Coil (Helix), Add	59.55	
32 31 13 13-0696 Stainless Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0678)</small>		
32 31 13 13-0697 LF 18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	10.33	0.71
For >500 To 1,500, Deduct	-0.83	
For >1,500 To 5,000, Deduct	-1.65	
For >5,000, Deduct	-2.27	
For Ground Installation, Deduct	-0.51	
For Double Coil (Helix), Add	9.32	
32 31 13 13-0698 LF 18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	15.62	0.71
For >500 To 1,500, Deduct	-1.25	
For >1,500 To 5,000, Deduct	-2.50	
For >5,000, Deduct	-3.43	
For Ground Installation, Deduct	-0.76	
For Double Coil (Helix), Add	14.10	
32 31 13 13-0699 LF 18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	20.67	0.71
For >500 To 1,500, Deduct	-1.65	
For >1,500 To 5,000, Deduct	-3.30	
For >5,000, Deduct	-4.54	
For Ground Installation, Deduct	-1.02	
For Double Coil (Helix), Add	18.64	
32 31 13 13-0700 LF 24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	13.67	0.71
For >500 To 1,500, Deduct	-1.08	
For >1,500 To 5,000, Deduct	-2.16	
For >5,000, Deduct	-2.96	
For Ground Installation, Deduct	-0.56	
For Double Coil (Helix), Add	12.55	
32 31 13 13-0701 LF 24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	20.68	0.71
For >500 To 1,500, Deduct	-1.64	
For >1,500 To 5,000, Deduct	-3.27	
For >5,000, Deduct	-4.47	
For Ground Installation, Deduct	-0.85	
For Double Coil (Helix), Add	18.99	
32 31 13 13-0702 LF 24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	27.31	0.71
For >500 To 1,500, Deduct	-2.16	
For >1,500 To 5,000, Deduct	-4.32	
For >5,000, Deduct	-5.91	
For Ground Installation, Deduct	-1.12	
For Double Coil (Helix), Add	25.07	
32 31 13 13-0703 LF 30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	46.75	0.71
For >500 To 1,500, Deduct	-3.57	
For >1,500 To 5,000, Deduct	-7.14	
For >5,000, Deduct	-9.60	
For Ground Installation, Deduct	-0.63	
For Double Coil (Helix), Add	45.49	
32 31 13 13-0704 LF 30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	70.80	0.71
For >500 To 1,500, Deduct	-5.41	
For >1,500 To 5,000, Deduct	-10.81	
For >5,000, Deduct	-14.54	
For Ground Installation, Deduct	-0.95	
For Double Coil (Helix), Add	68.90	
32 31 13 13-0705 LF 30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	93.52	0.71
For >500 To 1,500, Deduct	-7.14	
For >1,500 To 5,000, Deduct	-14.28	
For >5,000, Deduct	-19.21	
For Ground Installation, Deduct	-1.27	
For Double Coil (Helix), Add	90.98	
32 31 13 13-0706 Grounding For Gates <small>(32 31 13 13-0677)</small>		
Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0707 OPNG Grounding For Gates (Per Opening)	462.15	
32 31 13 13-0708 Coiled Spring Reinforcing Wire <small>(32 31 13 13-0677)</small>		
32 31 13 13-0709 Galvanized Steel <small>(32 31 13 13-0708)</small>		
32 31 13 13-0710 LF 7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.22	0.51

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0711	Vinyl Coated Steel <small>(32 31 13 13-0708)</small>		
32 31 13 13-0712	LF 9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.22	0.51
32 31 13 13-0713	Bending Of Fabric Around Pipe Railings <small>(32 31 13 13-0677)</small>		
	Note: Only where specified.		
32 31 13 13-0714	LF Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.61	
32 31 13 13-0715	LF Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.41	
32 31 13 13-0716	Mounting Plate With Anchors Or Bolts <small>(32 31 13 13-0677)</small>		
	Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0717	EA Mounting Plate For 1-5/8" Diameter Post.....	46.59	
32 31 13 13-0718	EA Mounting Plate For 2" Diameter Post.....	47.37	
32 31 13 13-0719	EA Mounting Plate For 2-1/2" Diameter Post.....	48.69	
32 31 13 13-0720	EA Mounting Plate For 3" Diameter Post.....	58.76	
32 31 13 13-0721	EA Mounting Plate For 4" Diameter Post.....	67.63	
32 31 13 13-0722	EA Mounting Plate For 6-5/8" Diameter Post.....	78.46	
32 31 13 13-0723	EA Mounting Plate For 8-5/8" Diameter Post.....	92.60	
32 31 13 13-0724	Tension Bar <small>(32 31 13 13-0677)</small>		
32 31 13 13-0725	EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	16.47	
32 31 13 13-0726	EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	17.53	
32 31 13 13-0727	EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	21.63	
32 31 13 13-0728	EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	25.06	
32 31 13 13-0729	EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	29.63	
32 31 13 13-0730	EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	34.37	
32 31 13 13-0731	EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	38.87	
32 31 13 13-0732	EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	46.66	
32 31 13 13-0733	EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	55.85	
32 31 13 13-0734	Truss Rods <small>(32 31 13 13-0677)</small>		
32 31 13 13-0735	LF 3/8" Diameter Truss Rods.....	2.24	0.56
32 31 13 13-0736	Fence And Gate Repair And Replacement <small>(32 31 13 13)</small>		
32 31 13 13-0737	Fence And Gate Parts Replacement <small>(32 31 13 13-0736)</small>		
32 31 13 13-0738	EA Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	130.07	
32 31 13 13-0739	EA Sliding Gate Roller Assembly Replacement.....	127.09	
32 31 13 13-0740	EA Rod And Lock Gate Keeper Replacement.....	129.72	
32 31 13 13-0741	EA Galvanized Gate Holdback Replacement.....	28.46	
32 31 13 13-0742	LF 3/8" Cross Bracing Rod Replacement.....	1.67	
32 31 13 13-0743	LF 1-5/8" Diagonal Pipe Bracing Replacement.....	2.61	
32 31 13 13-0744	EA 2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	28.31	
32 31 13 13-0745	EA 2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	32.29	
32 31 13 13-0746	EA 3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	36.41	
32 31 13 13-0747	EA 6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	54.19	
32 31 13 13-0748	EA 8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	111.33	
32 31 13 13-0749	EA 2-1/2" x 2" Off Set Gate Hinge Replacement.....	26.82	
32 31 13 13-0750	EA 3" x 2" Off Set Gate Hinge Replacement.....	27.98	
32 31 13 13-0751	EA 4" x 2" Off Set Gate Hinge Replacement.....	29.86	
32 31 13 13-0752	EA 6-5/8" x 2" Off Set Gate Hinge Replacement.....	49.01	
32 31 13 13-0753	EA 8-5/8" x 2" Off Set Gate Hinge Replacement.....	77.42	
32 31 13 13-0754	EA 1-5/8" Aluminum Die-Cast Post Cap Replacement.....	5.96	
32 31 13 13-0755	EA 2" Aluminum Die-Cast Post Cap Replacement.....	6.55	
32 31 13 13-0756	EA 2-1/2" Aluminum Die-Cast Post Cap Replacement.....	7.68	
32 31 13 13-0757	EA 3" Aluminum Die-Cast Post Cap Replacement.....	8.98	
32 31 13 13-0758	EA 2" Galvanized Post Cap Replacement.....	6.59	
32 31 13 13-0759	EA 2-1/2" Galvanized Post Cap Replacement.....	7.13	
32 31 13 13-0760	EA 3" Galvanized Post Cap Replacement.....	8.18	
32 31 13 13-0761	EA 4" Galvanized Post Cap Replacement.....	12.20	
32 31 13 13-0762	EA 6-5/8" Galvanized Post Cap Replacement.....	23.13	
32 31 13 13-0763	EA 8-5/8" Galvanized Post Cap Replacement.....	38.05	
32 31 13 13-0764	EA 1-5/8" Boulevard Clamp Replacement.....	10.96	
32 31 13 13-0765	EA 2" Boulevard Clamp Replacement.....	13.36	
32 31 13 13-0766	EA 2-1/2" Boulevard Clamp Replacement.....	15.68	
32 31 13 13-0767	EA 3" Boulevard Clamp Replacement.....	19.02	
32 31 13 13-0768	EA 1-5/8" Gate Brace Or End Rail Clamp Replacement.....	10.74	
32 31 13 13-0769	EA 2" Gate Brace Or End Rail Clamp Replacement.....	13.05	
32 31 13 13-0770	EA 2-1/2" Gate Brace Or End Rail Clamp Replacement.....	15.38	
32 31 13 13-0771	EA 3" Gate Brace Or End Rail Clamp Replacement.....	18.70	
32 31 13 13-0772	EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.11	
32 31 13 13-0773	EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.21	
32 31 13 13-0774	EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.47	
32 31 13 13-0775	EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.35	
32 31 13 13-0776	EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.55	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0777 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.71	
32 31 13 13-0778 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	12.18	
32 31 13 13-0779 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	15.61	
32 31 13 13-0780 Removal And Reinstallation Of Chain Link Fences (32 31 13 13)		
Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work. See CSI section 32 31 13 13-0001 for new post holes where required, 32 31 13 13-0058 for new fence posts where required.		
32 31 13 13-0781 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height	20.31	
32 31 13 13-0782 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height	30.46	
32 31 13 13-0783 Ballfield Fencing (32 31 13 13)		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 13-0784 Concrete Bases For Ballfield Poles, Cast In Place (32 31 13 13-0783)		
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill.		
32 31 13 13-0785 VLF 2-1/2' Diameter Concrete Base For Ballfield Poles.....	135.48	
32 31 13 13-0786 VLF 3' Diameter Concrete Base For Ballfield Poles	159.90	
32 31 13 13-0787 VLF 3-1/2' Diameter Concrete Base For Ballfield Poles.....	200.96	
32 31 13 13-0788 VLF 4' Diameter Concrete Base For Ballfield Poles	237.50	
32 31 13 13-0789 Ballfield Poles (32 31 13 13-0783)		
32 31 13 13-0790 EA 20' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	8,106.87	688.57
Note: 10' above grade		
32 31 13 13-0791 EA 25' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	10,056.32	860.71
Note: 15' above grade		
32 31 13 13-0792 EA 30' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	11,557.55	1,032.86
Note: 20' above grade		
32 31 13 13-0793 EA 40' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	15,538.28	1,205.00
Note: 30' above grade		
32 31 13 13-0794 EA 50' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	20,823.89	1,377.13
Note: 40' above grade		
32 31 13 13-0795 EA 60' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting	23,270.12	1,549.27
Note: 50' above grade		
32 31 13 13-0796 Ballfield Nylon Netting (32 31 13 13-0783)		
Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0797 LF 10' High, #18 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.80	
32 31 13 13-0798 LF 10' High, #21 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.84	
32 31 13 13-0799 LF 10' High, #36 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.06	
32 31 13 13-0800 LF 10' High, #42 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.32	
32 31 13 13-0801 LF 10' High, #48 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.57	
32 31 13 13-0802 LF 10' High, #60 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.43	
32 31 13 13-0803 LF 10' High, #72 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.89	
32 31 13 13-0804 LF 10' High, #96 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	5.05	
32 31 13 13-0805 Ballfield Chainlink Netting (32 31 13 13-0783)		
Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0806 SF #9 Gauge Chain Link Fabric, 2" Mesh For Ballfield Netting	3.81	1.27
For 13 Gauge Fabric, Deduct		
	-0.58	
For 11 Gauge Fabric, Deduct		
	-0.32	
For 6 Gauge Fabric, Add		
	1.02	
For 1" Mesh Fabric, Add		
	0.96	
For 1-3/4" Mesh Fabric, Add		
	0.38	
For 2-1/8" Mesh Fabric, Deduct		
	-0.19	
For 2-3/8" Mesh Fabric, Deduct		
	-0.26	
32 31 13 13-0807 Ballfield Netting Accessories (32 31 13 13-0783)		
32 31 13 13-0808 EA Sliding Clip For Ballfield Netting.....	8.83	
32 31 13 13-0809 EA 1/4" Utility Spring Swing Clip For Ballfield Netting	3.95	
32 31 13 13-0810 EA 5/16" Utility Spring Swing Clip For Ballfield Netting	4.15	
32 31 13 13-0811 EA 3/8" Utility Spring Swing Clip For Ballfield Netting	4.45	
32 31 13 33 Chain Link Backstops (32 31 13)		
32 31 13 33-0001 Regulation Baseball Backstop (32 31 13 33)		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized	13,058.61	2,040.60
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized	18,868.74	2,720.80
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	24,089.00	3,174.26
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	18,447.17	2,040.60
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	26,931.73	2,720.80
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	34,729.37	3,174.26

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 33-0008		Regulation Softball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0009		14' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0010	EA	14' Softball Backstop, Galvanized Regulation.....	11,077.42	2,086.23
32 31 13 33-0011	EA	14' Softball Backstop, Vinyl Coated Regulation	14,942.18	2,086.23
32 31 13 33-0012		18' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0013	EA	18' Softball Backstop, Galvanized Regulation.....	12,945.90	2,319.31
32 31 13 33-0014	EA	18' Softball Backstop Vinyl Coated Regulation	17,621.01	2,319.31
32 31 13 33-0015		20' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0016	EA	20' Softball Backstop, Galvanized Regulation.....	14,680.56	2,445.39
32 31 13 33-0017	EA	20' Softball Backstop, Vinyl Coated Regulation	20,228.42	2,445.39
32 31 13 33-0018		22' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019	EA	22' Softball Backstop, Galvanized Regulation.....	16,932.64	2,519.17
32 31 13 33-0020	EA	22' Softball Backstop, Vinyl Coated Regulation	23,602.47	2,519.17
32 31 13 33-0021		24' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022	EA	24' Softball Backstop, Galvanized Regulation.....	20,181.50	2,879.05
32 31 13 33-0023	EA	24' Softball Backstop, Vinyl Coated Regulation	28,472.03	2,879.05
32 31 16		Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001		Welded Wire Fence (32 31 16)		
32 31 16 00-0002		12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	10.07	1.81
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	10.87	1.81
32 31 16 00-0005		14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	9.91	1.81
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	10.62	1.81
32 31 19		Decorative Metal Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001		Wrought Iron Fence (32 31 19) Note: Factory primed.		
32 31 19 00-0002		Wrought Iron Fence, 3/4" Verticals At >3" To 4" On Center (32 31 19 00-0001) Note: Factory primed 8 foot long panel sections.		
32 31 19 00-0003	LF	3' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	46.45	11.17
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	8.53	
		For Verticals Up To 2" On Center, Add	7.72	
		For Verticals >2" To 2-1/2" On Center, Add	4.82	
		For Verticals >2-1/2" To 3" On Center, Add	1.93	
		For Verticals >4" To 6" On Center, Deduct	-2.17	
		For Pickets Extending Above Top Rail, Add	4.13	
		For Curved Pickets Extending Above Top Rail, Add	9.51	
32 31 19 00-0004	LF	4' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	59.40	14.21
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	10.83	
		For Verticals Up To 2" On Center, Add	10.23	
		For Verticals >2" To 2-1/2" On Center, Add	6.39	
		For Verticals >2-1/2" To 3" On Center, Add	2.56	
		For Verticals >4" To 6" On Center, Deduct	-2.88	
		For Pickets Extending Above Top Rail, Add	5.37	
		For Curved Pickets Extending Above Top Rail, Add	12.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0005 LF 5' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center	70.17	14.82
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	12.62	
<i>For Verticals Up To 2" On Center, Add</i>	12.90	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	8.06	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	3.23	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-3.63	
<i>For Pickets Extending Above Top Rail, Add</i>	6.53	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	15.34	
32 31 19 00-0006 LF 6' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center	84.90	17.87
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	15.24	
<i>For Verticals Up To 2" On Center, Add</i>	15.71	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	9.82	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	3.93	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-4.42	
<i>For Pickets Extending Above Top Rail, Add</i>	7.93	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	18.64	
32 31 19 00-0007 LF 7' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center	98.82	18.91
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	17.47	
<i>For Verticals Up To 2" On Center, Add</i>	19.52	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	12.20	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	4.88	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-5.49	
<i>For Pickets Extending Above Top Rail, Add</i>	9.52	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	22.66	
32 31 19 00-0008 LF 8' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center	112.72	19.90
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	19.69	
<i>For Verticals Up To 2" On Center, Add</i>	23.33	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	14.58	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	5.83	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-6.56	
<i>For Pickets Extending Above Top Rail, Add</i>	11.11	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	26.68	
32 31 19 00-0009 LF 10' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center	136.52	22.33
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	23.60	
<i>For Verticals Up To 2" On Center, Add</i>	29.39	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	18.37	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	7.35	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-8.27	
<i>For Pickets Extending Above Top Rail, Add</i>	13.71	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	33.20	
32 31 19 00-0010 LF 12' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center	161.07	25.38
<i>For 6' Length Fence Panels With Posts Set 6' O.C., Add</i>	27.71	
<i>For Verticals Up To 2" On Center, Add</i>	35.30	
<i>For Verticals >2" To 2-1/2" On Center, Add</i>	22.06	
<i>For Verticals >2-1/2" To 3" On Center, Add</i>	8.82	
<i>For Verticals >4" To 6" On Center, Deduct</i>	-9.93	
<i>For Pickets Extending Above Top Rail, Add</i>	16.33	
<i>For Curved Pickets Extending Above Top Rail, Add</i>	39.66	
32 31 19 00-0011 Wrought Iron Gates <small>(32 31 19 00-0001)</small>		
Note: Factory primed.		
32 31 19 00-0012 Single Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim	57.04	13.60
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim	74.84	16.86
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim	91.18	20.31
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim	110.71	24.37
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim	146.80	27.01
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim	176.80	29.85
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim	206.27	33.91
32 31 19 00-0020 Double Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim	69.57	12.18
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim	91.19	15.23
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim	110.66	18.27
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim	133.93	21.93
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim	178.42	24.37
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim	215.28	26.80
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim	251.63	30.46
32 31 19 00-0028 Repair Or Replace Wrought Iron Fence <small>(32 31 19 00-0001)</small>		
32 31 19 00-0029 LF Removal And Replacement Of Wrought Iron Picket	19.41	
32 31 19 00-0030 LF Removal And Replacement Of Wrought Iron Post	28.64	
32 31 19 00-0031 EA Straighten Wrought Iron Post	81.22	
32 31 19 00-0032 Steel Tube Fence, Powder Coated <small>(32 31 19)</small>		
Note: Pickets are 3/4" square x 16 gauge.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0033			Steel Tube Fence, 2 Rail (32 31 19 00-0032)		
			Note: 6 foot long panel sections.		
32 31 19 00-0034	LF	3'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	75.55	11.17
			For Verticals Up To 2" On Center, Add	10.73	
			For Verticals >2" To 2-1/2" On Center, Add	5.37	
			For Verticals >3" To 4" On Center, Deduct	-5.37	
			For Verticals >4" To 6" On Center, Deduct	-10.73	
			For Pickets Extending Above Top Rail, Add	5.66	
			For Curved Pickets Extending Above Top Rail, Add	9.96	
			For Solid Pickets, Add	15.36	
			For Aluminum With Satin Finish, Add	12.81	
			For Third Rail, Add	4.02	
			For 1" Square x 14 Gauge Pickets, Add	13.42	
			For 3" Square Posts, Add	6.71	
32 31 19 00-0035	LF	3'-6"	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	80.81	11.94
			For Verticals Up To 2" On Center, Add	11.39	
			For Verticals >2" To 2-1/2" On Center, Add	5.69	
			For Verticals >3" To 4" On Center, Deduct	-5.69	
			For Verticals >4" To 6" On Center, Deduct	-11.39	
			For Pickets Extending Above Top Rail, Add	6.03	
			For Curved Pickets Extending Above Top Rail, Add	10.62	
			For Solid Pickets, Add	16.39	
			For Aluminum With Satin Finish, Add	13.50	
			For Third Rail, Add	4.27	
			For 1" Square x 14 Gauge Pickets, Add	14.23	
			For 3" Square Posts, Add	7.12	
32 31 19 00-0036	LF	4'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	85.46	13.20
			For Verticals Up To 2" On Center, Add	11.92	
			For Verticals >2" To 2-1/2" On Center, Add	5.96	
			For Verticals >3" To 4" On Center, Deduct	-5.96	
			For Verticals >4" To 6" On Center, Deduct	-11.92	
			For Pickets Extending Above Top Rail, Add	6.36	
			For Curved Pickets Extending Above Top Rail, Add	11.18	
			For Solid Pickets, Add	17.29	
			For Aluminum With Satin Finish, Add	14.00	
			For Third Rail, Add	4.47	
			For 1" Square x 14 Gauge Pickets, Add	14.90	
			For 3" Square Posts, Add	7.45	
32 31 19 00-0037	LF	5'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	90.94	14.82
			For Verticals Up To 2" On Center, Add	12.22	
			For Verticals >2" To 2-1/2" On Center, Add	6.11	
			For Verticals >3" To 4" On Center, Deduct	-6.11	
			For Verticals >4" To 6" On Center, Deduct	-12.22	
			For Pickets Extending Above Top Rail, Add	6.69	
			For Curved Pickets Extending Above Top Rail, Add	11.71	
			For Solid Pickets, Add	18.22	
			For Aluminum With Satin Finish, Add	13.85	
			For Third Rail, Add	4.58	
			For 1" Square x 14 Gauge Pickets, Add	15.27	
			For 3" Square Posts, Add	7.64	
32 31 19 00-0038	LF	6'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	105.51	16.76
			For Verticals Up To 2" On Center, Add	14.40	
			For Verticals >2" To 2-1/2" On Center, Add	7.20	
			For Verticals >3" To 4" On Center, Deduct	-7.20	
			For Verticals >4" To 6" On Center, Deduct	-14.40	
			For Pickets Extending Above Top Rail, Add	7.80	
			For Curved Pickets Extending Above Top Rail, Add	13.67	
			For Solid Pickets, Add	21.23	
			For Aluminum With Satin Finish, Add	16.58	
			For Third Rail, Add	5.40	
			For 1" Square x 14 Gauge Pickets, Add	18.00	
			For 3" Square Posts, Add	9.00	
32 31 19 00-0039	LF	7'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	120.90	18.27
			For Verticals Up To 2" On Center, Add	16.87	
			For Verticals >2" To 2-1/2" On Center, Add	8.44	
			For Verticals >3" To 4" On Center, Deduct	-8.44	
			For Verticals >4" To 6" On Center, Deduct	-16.87	
			For Pickets Extending Above Top Rail, Add	9.00	
			For Curved Pickets Extending Above Top Rail, Add	15.82	
			For Solid Pickets, Add	24.46	
			For Aluminum With Satin Finish, Add	19.83	
			For Third Rail, Add	6.33	
			For 1" Square x 14 Gauge Pickets, Add	21.09	
			For 4" Square Posts, Add	29.53	
32 31 19 00-0040	LF	8'	Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	136.52	19.90
			For Verticals Up To 2" On Center, Add	19.34	
			For Verticals >2" To 2-1/2" On Center, Add	9.67	
			For Verticals >3" To 4" On Center, Deduct	-9.67	
			For Verticals >4" To 6" On Center, Deduct	-19.34	
			For Pickets Extending Above Top Rail, Add	10.21	
			For Curved Pickets Extending Above Top Rail, Add	17.98	
			For Solid Pickets, Add	27.73	
			For Aluminum With Satin Finish, Add	23.05	
			For Third Rail, Add	7.25	
			For 1" Square x 14 Gauge Pickets, Add	24.18	
			For 4" Square Posts, Add	33.85	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0041 LF 9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	158.94	21.32
For Verticals Up To 2" On Center, Add	23.26	
For Verticals >2" To 2-1/2" On Center, Add	11.63	
For Verticals >3" To 4" On Center, Deduct	-11.63	
For Verticals >4" To 6" On Center, Deduct	-23.26	
For Pickets Extending Above Top Rail, Add	12.02	
For Curved Pickets Extending Above Top Rail, Add	21.22	
For Solid Pickets, Add	32.56	
For Aluminum With Satin Finish, Add	28.49	
For Third Rail, Add	8.72	
For 1" Square x 14 Gauge Pickets, Add	29.08	
For 4" Square Posts, Add	40.71	
32 31 19 00-0042 LF 10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	181.56	22.84
For Verticals Up To 2" On Center, Add	27.17	
For Verticals >2" To 2-1/2" On Center, Add	13.59	
For Verticals >3" To 4" On Center, Deduct	-13.59	
For Verticals >4" To 6" On Center, Deduct	-27.17	
For Pickets Extending Above Top Rail, Add	13.83	
For Curved Pickets Extending Above Top Rail, Add	24.49	
For Solid Pickets, Add	37.42	
For Aluminum With Satin Finish, Add	33.91	
For Third Rail, Add	10.19	
For 1" Square x 14 Gauge Pickets, Add	33.97	
For 6" Square Posts, Add	47.55	
32 31 19 00-0043 LF 12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	214.05	25.38
For Verticals Up To 2" On Center, Add	32.66	
For Verticals >2" To 2-1/2" On Center, Add	16.33	
For Verticals >3" To 4" On Center, Deduct	-16.33	
For Verticals >4" To 6" On Center, Deduct	-32.66	
For Pickets Extending Above Top Rail, Add	16.42	
For Curved Pickets Extending Above Top Rail, Add	29.12	
For Solid Pickets, Add	44.35	
For Aluminum With Satin Finish, Add	41.37	
For Third Rail, Add	12.25	
For 1" Square x 14 Gauge Pickets, Add	40.82	
For 6" Square Posts, Add	57.15	
32 31 19 00-0044 LF 14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	229.26	27.41
For Verticals Up To 2" On Center, Add	34.89	
For Verticals >2" To 2-1/2" On Center, Add	17.44	
For Verticals >3" To 4" On Center, Deduct	-17.44	
For Verticals >4" To 6" On Center, Deduct	-34.89	
For Pickets Extending Above Top Rail, Add	17.57	
For Curved Pickets Extending Above Top Rail, Add	31.15	
For Solid Pickets, Add	47.47	
For Aluminum With Satin Finish, Add	44.10	
For Third Rail, Add	13.08	
For 1" Square x 14 Gauge Pickets, Add	43.61	
For 6" Square Posts, Add	61.05	
32 31 19 00-0045 Steel Tube Swing Gates <small>(32 31 19 00-0032)</small>		
32 31 19 00-0046 3' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0047 EA 3' Wide x 3' High Steel Tube Single Swing Gate	722.98	21.62
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	157.80	
For Aluminum With Satin Finish, Add	187.65	
For Third Rail, Add	49.35	
For 1" Square x 14 Gauge Pickets, Add	65.80	
32 31 19 00-0048 EA 3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	804.48	22.64
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	175.91	
For Aluminum With Satin Finish, Add	210.74	
For Third Rail, Add	55.23	
For 1" Square x 14 Gauge Pickets, Add	73.65	
32 31 19 00-0049 EA 4' Wide x 3' High Steel Tube Single Swing Gate	890.57	23.96
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	194.97	
For Aluminum With Satin Finish, Add	234.74	
For Third Rail, Add	61.39	
For 1" Square x 14 Gauge Pickets, Add	81.85	
32 31 19 00-0050 EA 5' Wide x 3' High Steel Tube Single Swing Gate	936.66	25.68
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	204.96	
For Aluminum With Satin Finish, Add	246.28	
For Third Rail, Add	64.46	
For 1" Square x 14 Gauge Pickets, Add	85.95	
32 31 19 00-0051 EA 6' Wide x 3' High Steel Tube Single Swing Gate	1,046.40	30.76
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	228.51	
For Aluminum With Satin Finish, Add	272.34	
For Third Rail, Add	71.55	
For 1" Square x 14 Gauge Pickets, Add	95.40	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate		1,113.34	35.84
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		242.43	
		For Aluminum With Satin Finish, Add		285.57	
		For Third Rail, Add		75.43	
		For 1" Square x 14 Gauge Pickets, Add		100.57	
32 31 19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate		1,215.17	41.22
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		264.12	
		For Aluminum With Satin Finish, Add		308.82	
		For Third Rail, Add		81.85	
		For 1" Square x 14 Gauge Pickets, Add		109.13	
32 31 19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate		1,303.51	46.30
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		282.86	
		For Aluminum With Satin Finish, Add		328.47	
		For Third Rail, Add		87.33	
		For 1" Square x 14 Gauge Pickets, Add		116.44	
32 31 19 00-0055	EA	10' Wide x 3' High Steel Tube Single Swing Gate		1,381.15	51.37
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		299.19	
		For Aluminum With Satin Finish, Add		344.91	
		For Third Rail, Add		92.01	
		For 1" Square x 14 Gauge Pickets, Add		122.68	
32 31 19 00-0056	EA	6' Wide x 3' High Steel Tube Double Swing Gate		1,511.75	43.25
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		330.40	
		For Aluminum With Satin Finish, Add		395.05	
		For Third Rail, Add		103.64	
		For 1" Square x 14 Gauge Pickets, Add		138.18	
32 31 19 00-0057	EA	7' Wide x 3' High Steel Tube Double Swing Gate		1,610.75	45.28
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		352.22	
		For Aluminum With Satin Finish, Add		422.01	
		For Third Rail, Add		110.60	
		For 1" Square x 14 Gauge Pickets, Add		147.47	
32 31 19 00-0058	EA	8' Wide x 3' High Steel Tube Double Swing Gate		1,781.14	48.02
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		389.94	
		For Aluminum With Satin Finish, Add		469.47	
		For Third Rail, Add		122.77	
		For 1" Square x 14 Gauge Pickets, Add		163.70	
32 31 19 00-0059	EA	9' Wide x 3' High Steel Tube Double Swing Gate		1,866.46	49.75
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		408.76	
		For Aluminum With Satin Finish, Add		492.78	
		For Third Rail, Add		128.79	
		For 1" Square x 14 Gauge Pickets, Add		171.72	
32 31 19 00-0060	EA	10' Wide x 3' High Steel Tube Double Swing Gate		1,935.73	51.37
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		423.97	
		For Aluminum With Satin Finish, Add		511.28	
		For Third Rail, Add		133.61	
		For 1" Square x 14 Gauge Pickets, Add		178.14	
32 31 19 00-0061	EA	12' Wide x 3' High Steel Tube Double Swing Gate		2,178.39	61.52
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		476.28	
		For Aluminum With Satin Finish, Add		570.37	
		For Third Rail, Add		149.52	
		For 1" Square x 14 Gauge Pickets, Add		199.36	
32 31 19 00-0062	EA	14' Wide x 3' High Steel Tube Double Swing Gate		2,387.16	71.67
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		520.97	
		For Aluminum With Satin Finish, Add		619.30	
		For Third Rail, Add		162.90	
		For 1" Square x 14 Gauge Pickets, Add		217.19	
32 31 19 00-0063	EA	16' Wide x 3' High Steel Tube Double Swing Gate		2,562.31	82.54
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		557.94	
		For Aluminum With Satin Finish, Add		657.22	
		For Third Rail, Add		173.59	
		For 1" Square x 14 Gauge Pickets, Add		231.46	
32 31 19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate		2,708.67	92.59
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		588.59	
		For Aluminum With Satin Finish, Add		687.42	
		For Third Rail, Add		182.29	
		For 1" Square x 14 Gauge Pickets, Add		243.05	
32 31 19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate		2,828.29	102.74
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		613.22	
		For Aluminum With Satin Finish, Add		709.60	
		For Third Rail, Add		188.97	
		For 1" Square x 14 Gauge Pickets, Add		251.97	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0066 4' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0067 EA 3' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	835.31	20.31
For Solid Pickets, Add	182.81	
For Aluminum With Satin Finish, Add	219.75	
For Third Rail, Add	57.51	
For 1" Square x 14 Gauge Pickets, Add	76.68	
32 31 19 00-0068 EA 3'-6" Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	903.81	23.66
For Solid Pickets, Add	198.03	
For Aluminum With Satin Finish, Add	239.17	
For Third Rail, Add	62.46	
For 1" Square x 14 Gauge Pickets, Add	83.28	
32 31 19 00-0069 EA 4' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	974.87	25.38
For Solid Pickets, Add	213.64	
For Aluminum With Satin Finish, Add	258.20	
For Third Rail, Add	67.40	
For 1" Square x 14 Gauge Pickets, Add	89.87	
32 31 19 00-0070 EA 5' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,033.45	27.01
For Solid Pickets, Add	226.43	
For Aluminum With Satin Finish, Add	273.49	
For Third Rail, Add	71.42	
For 1" Square x 14 Gauge Pickets, Add	95.22	
32 31 19 00-0071 EA 6' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,113.88	32.48
For Solid Pickets, Add	243.31	
For Aluminum With Satin Finish, Add	290.31	
For Third Rail, Add	76.23	
For 1" Square x 14 Gauge Pickets, Add	101.64	
32 31 19 00-0072 EA 7' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,222.85	37.87
For Solid Pickets, Add	266.61	
For Aluminum With Satin Finish, Add	315.69	
For Third Rail, Add	83.19	
For 1" Square x 14 Gauge Pickets, Add	110.92	
32 31 19 00-0073 EA 8' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,372.84	43.25
For Solid Pickets, Add	299.14	
For Aluminum With Satin Finish, Add	353.37	
For Third Rail, Add	93.22	
For 1" Square x 14 Gauge Pickets, Add	124.29	
32 31 19 00-0074 EA 9' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,519.25	48.73
For Solid Pickets, Add	330.87	
For Aluminum With Satin Finish, Add	389.99	
For Third Rail, Add	102.98	
For 1" Square x 14 Gauge Pickets, Add	137.31	
32 31 19 00-0075 EA 10' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,658.53	54.11
For Solid Pickets, Add	360.99	
For Aluminum With Satin Finish, Add	424.47	
For Third Rail, Add	112.21	
For 1" Square x 14 Gauge Pickets, Add	149.61	
32 31 19 00-0076 EA 6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,670.61	45.69
For Solid Pickets, Add	365.61	
For Aluminum With Satin Finish, Add	439.51	
For Third Rail, Add	115.02	
For 1" Square x 14 Gauge Pickets, Add	153.36	
32 31 19 00-0077 EA 7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,807.65	47.31
For Solid Pickets, Add	396.06	
For Aluminum With Satin Finish, Add	478.33	
For Third Rail, Add	124.91	
For 1" Square x 14 Gauge Pickets, Add	166.55	
32 31 19 00-0078 EA 8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,949.76	50.77
For Solid Pickets, Add	427.27	
For Aluminum With Satin Finish, Add	516.40	
For Third Rail, Add	134.81	
For 1" Square x 14 Gauge Pickets, Add	179.75	
32 31 19 00-0079 EA 9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,061.82	52.38
For Solid Pickets, Add	452.11	
For Aluminum With Satin Finish, Add	547.73	
For Third Rail, Add	142.83	
For 1" Square x 14 Gauge Pickets, Add	190.45	
32 31 19 00-0080 EA 10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,156.05	54.11
For Solid Pickets, Add	472.93	
For Aluminum With Satin Finish, Add	573.72	
For Third Rail, Add	149.52	
For 1" Square x 14 Gauge Pickets, Add	199.36	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0081	EA	12' Wide x 4' High Steel Tube Double Swing Gate		2,447.11	64.87
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		535.98	
		<i>For Aluminum With Satin Finish, Add</i>		646.41	
		<i>For Third Rail, Add</i>		168.91	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		225.22	
32 31 19 00-0082	EA	14' Wide x 4' High Steel Tube Double Swing Gate		2,702.49	75.74
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		591.00	
		<i>For Aluminum With Satin Finish, Add</i>		708.41	
		<i>For Third Rail, Add</i>		185.63	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		247.51	
32 31 19 00-0083	EA	16' Wide x 4' High Steel Tube Double Swing Gate		2,924.00	86.50
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		638.41	
		<i>For Aluminum With Satin Finish, Add</i>		760.25	
		<i>For Third Rail, Add</i>		199.81	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		266.41	
32 31 19 00-0084	EA	18' Wide x 4' High Steel Tube Double Swing Gate		3,115.20	97.36
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		678.99	
		<i>For Aluminum With Satin Finish, Add</i>		802.98	
		<i>For Third Rail, Add</i>		211.71	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		282.28	
32 31 19 00-0085	EA	20' Wide x 4' High Steel Tube Double Swing Gate		3,277.85	108.22
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		713.15	
		<i>For Aluminum With Satin Finish, Add</i>		837.16	
		<i>For Third Rail, Add</i>		221.47	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		295.30	
32 31 19 00-0086		5' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>			
32 31 19 00-0087	EA	3' Wide x 5' High Steel Tube Single Swing Gate		909.16	23.66
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		199.23	
		<i>For Aluminum With Satin Finish, Add</i>		240.77	
		<i>For Third Rail, Add</i>		62.86	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		83.81	
32 31 19 00-0088	EA	3'-6" Wide x 5' High Steel Tube Single Swing Gate		958.82	25.38
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		210.02	
		<i>For Aluminum With Satin Finish, Add</i>		253.38	
		<i>For Third Rail, Add</i>		66.20	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		88.27	
32 31 19 00-0089	EA	4' Wide x 5' High Steel Tube Single Swing Gate		1,006.70	27.01
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		220.42	
		<i>For Aluminum With Satin Finish, Add</i>		265.46	
		<i>For Third Rail, Add</i>		69.41	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		92.55	
32 31 19 00-0090	EA	5' Wide x 5' High Steel Tube Single Swing Gate		1,075.97	28.73
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		235.62	
		<i>For Aluminum With Satin Finish, Add</i>		283.96	
		<i>For Third Rail, Add</i>		74.23	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		98.97	
32 31 19 00-0091	EA	6' Wide x 5' High Steel Tube Single Swing Gate		1,169.91	34.52
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		255.46	
		<i>For Aluminum With Satin Finish, Add</i>		304.37	
		<i>For Third Rail, Add</i>		79.98	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		106.64	
32 31 19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate		1,294.16	40.20
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		282.13	
		<i>For Aluminum With Satin Finish, Add</i>		333.88	
		<i>For Third Rail, Add</i>		88.00	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		117.34	
32 31 19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate		1,467.57	46.30
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		319.77	
		<i>For Aluminum With Satin Finish, Add</i>		377.68	
		<i>For Third Rail, Add</i>		99.64	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		132.85	
32 31 19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate		1,636.40	52.08
		Note: Includes mounting hardware and associated trim.			
		<i>For Solid Pickets, Add</i>		356.46	
		<i>For Aluminum With Satin Finish, Add</i>		420.57	
		<i>For Third Rail, Add</i>		111.00	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>		148.01	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0095 EA 10' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,801.66	57.77
For Solid Pickets, Add	392.35	
For Aluminum With Satin Finish, Add	462.38	
For Third Rail, Add	122.10	
For 1" Square x 14 Gauge Pickets, Add	162.81	
32 31 19 00-0096 EA 6' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,790.12	39.89
For Solid Pickets, Add	394.23	
For Aluminum With Satin Finish, Add	485.78	
For Third Rail, Add	125.72	
For 1" Square x 14 Gauge Pickets, Add	167.62	
32 31 19 00-0097 EA 7' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,896.47	46.50
For Solid Pickets, Add	416.74	
For Aluminum With Satin Finish, Add	509.14	
For Third Rail, Add	132.27	
For 1" Square x 14 Gauge Pickets, Add	176.36	
32 31 19 00-0098 EA 8' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,003.96	53.50
For Solid Pickets, Add	439.42	
For Aluminum With Satin Finish, Add	532.34	
For Third Rail, Add	138.82	
For 1" Square x 14 Gauge Pickets, Add	185.10	
32 31 19 00-0099 EA 9' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,151.33	60.20
For Solid Pickets, Add	471.15	
For Aluminum With Satin Finish, Add	568.01	
For Third Rail, Add	148.45	
For 1" Square x 14 Gauge Pickets, Add	197.94	
32 31 19 00-0100 EA 10' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,280.88	66.80
For Solid Pickets, Add	498.88	
For Aluminum With Satin Finish, Add	598.33	
For Third Rail, Add	156.74	
For 1" Square x 14 Gauge Pickets, Add	208.99	
32 31 19 00-0101 EA 12' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,596.32	74.31
For Solid Pickets, Add	568.26	
For Aluminum With Satin Finish, Add	683.42	
For Third Rail, Add	178.81	
For 1" Square x 14 Gauge Pickets, Add	238.41	
32 31 19 00-0102 EA 14' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,880.12	82.43
For Solid Pickets, Add	630.35	
For Aluminum With Satin Finish, Add	758.00	
For Third Rail, Add	198.34	
For 1" Square x 14 Gauge Pickets, Add	264.45	
32 31 19 00-0103 EA 16' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,134.06	91.47
For Solid Pickets, Add	685.56	
For Aluminum With Satin Finish, Add	822.62	
For Third Rail, Add	215.46	
For 1" Square x 14 Gauge Pickets, Add	287.27	
32 31 19 00-0104 EA 18' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,362.81	101.62
For Solid Pickets, Add	734.86	
For Aluminum With Satin Finish, Add	878.18	
For Third Rail, Add	230.43	
For 1" Square x 14 Gauge Pickets, Add	307.25	
32 31 19 00-0105 EA 20' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,566.38	112.99
For Solid Pickets, Add	778.23	
For Aluminum With Satin Finish, Add	924.68	
For Third Rail, Add	243.27	
For 1" Square x 14 Gauge Pickets, Add	324.36	
32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0107 EA 3' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	946.59	25.99
For Solid Pickets, Add	207.12	
For Aluminum With Satin Finish, Add	248.80	
For Third Rail, Add	65.13	
For 1" Square x 14 Gauge Pickets, Add	86.84	
32 31 19 00-0108 EA 3'-6" Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	995.23	27.41
For Solid Pickets, Add	217.76	
For Aluminum With Satin Finish, Add	261.57	
For Third Rail, Add	68.48	
For 1" Square x 14 Gauge Pickets, Add	91.30	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate		1,044.60	28.93
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		228.51	
		For Aluminum With Satin Finish, Add		274.22	
		For Third Rail, Add		71.82	
		For 1" Square x 14 Gauge Pickets, Add		95.76	
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate		1,105.25	30.76
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		241.75	
		For Aluminum With Satin Finish, Add		290.00	
		For Third Rail, Add		75.96	
		For 1" Square x 14 Gauge Pickets, Add		101.29	
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate		1,240.44	37.16
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		270.72	
		For Aluminum With Satin Finish, Add		321.88	
		For Third Rail, Add		84.66	
		For 1" Square x 14 Gauge Pickets, Add		112.88	
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate		1,384.55	43.65
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		301.70	
		For Aluminum With Satin Finish, Add		356.43	
		For Third Rail, Add		94.02	
		For 1" Square x 14 Gauge Pickets, Add		125.36	
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate		1,545.48	49.75
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		336.54	
		For Aluminum With Satin Finish, Add		396.49	
		For Third Rail, Add		104.72	
		For 1" Square x 14 Gauge Pickets, Add		139.63	
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate		1,700.30	56.14
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		369.93	
		For Aluminum With Satin Finish, Add		434.25	
		For Third Rail, Add		114.88	
		For 1" Square x 14 Gauge Pickets, Add		153.18	
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate		1,888.98	62.54
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		410.93	
		For Aluminum With Satin Finish, Add		482.18	
		For Third Rail, Add		127.59	
		For 1" Square x 14 Gauge Pickets, Add		170.12	
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate		1,859.69	43.05
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		409.22	
		For Aluminum With Satin Finish, Add		502.62	
		For Third Rail, Add		130.26	
		For 1" Square x 14 Gauge Pickets, Add		173.68	
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate		1,970.06	50.46
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		432.46	
		For Aluminum With Satin Finish, Add		526.19	
		For Third Rail, Add		136.95	
		For 1" Square x 14 Gauge Pickets, Add		182.60	
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate		2,079.32	57.46
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		455.54	
		For Aluminum With Satin Finish, Add		549.92	
		For Third Rail, Add		143.64	
		For 1" Square x 14 Gauge Pickets, Add		191.52	
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate		2,211.10	64.87
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		483.59	
		For Aluminum With Satin Finish, Add		579.91	
		For Third Rail, Add		151.93	
		For 1" Square x 14 Gauge Pickets, Add		202.57	
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate		2,417.77	72.28
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		528.50	
		For Aluminum With Satin Finish, Add		632.36	
		For Third Rail, Add		165.84	
		For 1" Square x 14 Gauge Pickets, Add		221.12	
32 31 19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate		2,835.31	80.51
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		620.69	
		For Aluminum With Satin Finish, Add		747.07	
		For Third Rail, Add		195.39	
		For 1" Square x 14 Gauge Pickets, Add		260.53	
32 31 19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate		2,969.10	89.95
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		648.78	
		For Aluminum With Satin Finish, Add		775.15	
		For Third Rail, Add		203.42	
		For 1" Square x 14 Gauge Pickets, Add		271.23	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0123 EA 16' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,260.27	100.10
For Solid Pickets, Add	712.12	
For Aluminum With Satin Finish, Add	849.43	
For Third Rail, Add	223.08	
For 1" Square x 14 Gauge Pickets, Add	297.44	
32 31 19 00-0124 EA 18' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,528.03	111.37
For Solid Pickets, Add	769.94	
For Aluminum With Satin Finish, Add	915.19	
For Third Rail, Add	240.73	
For 1" Square x 14 Gauge Pickets, Add	320.98	
32 31 19 00-0125 EA 20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,777.08	124.26
For Solid Pickets, Add	823.21	
For Aluminum With Satin Finish, Add	973.32	
For Third Rail, Add	256.65	
For 1" Square x 14 Gauge Pickets, Add	342.20	
32 31 19 00-0126 7' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0127 EA 3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,002.92	28.13
For Solid Pickets, Add	219.31	
For Aluminum With Satin Finish, Add	262.82	
For Third Rail, Add	68.88	
For 1" Square x 14 Gauge Pickets, Add	91.84	
32 31 19 00-0128 EA 3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,053.75	29.64
For Solid Pickets, Add	230.42	
For Aluminum With Satin Finish, Add	276.06	
For Third Rail, Add	72.35	
For 1" Square x 14 Gauge Pickets, Add	96.47	
32 31 19 00-0129 EA 4' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,104.78	31.17
For Solid Pickets, Add	241.55	
For Aluminum With Satin Finish, Add	289.26	
For Third Rail, Add	75.83	
For 1" Square x 14 Gauge Pickets, Add	101.11	
32 31 19 00-0130 EA 5' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,155.92	32.79
For Solid Pickets, Add	252.70	
For Aluminum With Satin Finish, Add	302.46	
For Third Rail, Add	79.31	
For 1" Square x 14 Gauge Pickets, Add	105.74	
32 31 19 00-0131 EA 6' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,337.72	39.89
For Solid Pickets, Add	292.00	
For Aluminum With Satin Finish, Add	347.41	
For Third Rail, Add	91.34	
For 1" Square x 14 Gauge Pickets, Add	121.79	
32 31 19 00-0132 EA 7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,504.25	46.70
For Solid Pickets, Add	327.95	
For Aluminum With Satin Finish, Add	388.23	
For Third Rail, Add	102.31	
For 1" Square x 14 Gauge Pickets, Add	136.42	
32 31 19 00-0133 EA 8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,625.43	53.71
For Solid Pickets, Add	353.62	
For Aluminum With Satin Finish, Add	414.99	
For Third Rail, Add	109.80	
For 1" Square x 14 Gauge Pickets, Add	146.40	
32 31 19 00-0134 EA 9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,763.42	60.51
For Solid Pickets, Add	383.14	
For Aluminum With Satin Finish, Add	447.25	
For Third Rail, Add	118.63	
For 1" Square x 14 Gauge Pickets, Add	158.17	
32 31 19 00-0135 EA 10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,932.74	67.61
For Solid Pickets, Add	419.64	
For Aluminum With Satin Finish, Add	488.45	
For Third Rail, Add	129.73	
For 1" Square x 14 Gauge Pickets, Add	172.97	
32 31 19 00-0136 EA 6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,968.47	46.09
For Solid Pickets, Add	433.02	
For Aluminum With Satin Finish, Add	531.24	
For Third Rail, Add	137.75	
For 1" Square x 14 Gauge Pickets, Add	183.67	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 19 00-0137	EA 7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,083.53	53.91
	<i>For Solid Pickets, Add</i>	457.24	
	<i>For Aluminum With Satin Finish, Add</i>	555.71	
	<i>For Third Rail, Add</i>	144.71	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	192.94	
32 31 19 00-0138	EA 8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,199.71	62.14
	<i>For Solid Pickets, Add</i>	481.62	
	<i>For Aluminum With Satin Finish, Add</i>	580.01	
	<i>For Third Rail, Add</i>	151.66	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	202.22	
32 31 19 00-0139	EA 9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,316.55	69.95
	<i>For Solid Pickets, Add</i>	506.23	
	<i>For Aluminum With Satin Finish, Add</i>	605.01	
	<i>For Third Rail, Add</i>	158.75	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	211.67	
32 31 19 00-0140	EA 10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,609.27	78.17
	<i>For Solid Pickets, Add</i>	570.33	
	<i>For Aluminum With Satin Finish, Add</i>	682.27	
	<i>For Third Rail, Add</i>	178.94	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	238.59	
32 31 19 00-0141	EA 12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,153.86	87.21
	<i>For Solid Pickets, Add</i>	690.94	
	<i>For Aluminum With Satin Finish, Add</i>	834.09	
	<i>For Third Rail, Add</i>	217.86	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	290.48	
32 31 19 00-0142	EA 14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,119.82	97.76
	<i>For Solid Pickets, Add</i>	681.02	
	<i>For Aluminum With Satin Finish, Add</i>	810.32	
	<i>For Third Rail, Add</i>	213.05	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	284.06	
32 31 19 00-0143	EA 16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,380.46	109.03
	<i>For Solid Pickets, Add</i>	737.24	
	<i>For Aluminum With Satin Finish, Add</i>	873.93	
	<i>For Third Rail, Add</i>	230.17	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	306.89	
32 31 19 00-0144	EA 18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,691.92	121.93
	<i>For Solid Pickets, Add</i>	804.55	
	<i>For Aluminum With Satin Finish, Add</i>	950.79	
	<i>For Third Rail, Add</i>	250.76	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	334.35	
32 31 19 00-0145	EA 20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,897.97	136.04
	<i>For Solid Pickets, Add</i>	847.90	
	<i>For Aluminum With Satin Finish, Add</i>	994.51	
	<i>For Third Rail, Add</i>	263.20	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	350.93	
32 31 19 00-0146	8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0147	EA 3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,089.96	30.46
	<i>For Solid Pickets, Add</i>	238.39	
	<i>For Aluminum With Satin Finish, Add</i>	285.87	
	<i>For Third Rail, Add</i>	74.89	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	99.86	
32 31 19 00-0148	EA 3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,143.19	32.09
	<i>For Solid Pickets, Add</i>	249.98	
	<i>For Aluminum With Satin Finish, Add</i>	299.55	
	<i>For Third Rail, Add</i>	78.51	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	104.67	
32 31 19 00-0149	EA 4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,199.97	33.81
	<i>For Solid Pickets, Add</i>	262.38	
	<i>For Aluminum With Satin Finish, Add</i>	314.31	
	<i>For Third Rail, Add</i>	82.38	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.85	
32 31 19 00-0150	EA 5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,250.88	37.66
	<i>For Solid Pickets, Add</i>	272.96	
	<i>For Aluminum With Satin Finish, Add</i>	324.32	
	<i>For Third Rail, Add</i>	85.33	
	<i>For 1" Square x 14 Gauge Pickets, Add</i>	113.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0151 EA 6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,479.59	42.64
<i>For Solid Pickets, Add</i>	323.31	
<i>For Aluminum With Satin Finish, Add</i>	386.31	
<i>For Third Rail, Add</i>	101.38	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	135.17	
32 31 19 00-0152 EA 7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,646.85	51.37
<i>For Solid Pickets, Add</i>	358.97	
<i>For Aluminum With Satin Finish, Add</i>	424.62	
<i>For Third Rail, Add</i>	111.94	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	149.25	
32 31 19 00-0153 EA 8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,720.38	59.79
<i>For Solid Pickets, Add</i>	373.61	
<i>For Aluminum With Satin Finish, Add</i>	435.25	
<i>For Third Rail, Add</i>	115.55	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	154.07	
32 31 19 00-0154 EA 9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,844.85	68.63
<i>For Solid Pickets, Add</i>	399.63	
<i>For Aluminum With Satin Finish, Add</i>	460.71	
<i>For Third Rail, Add</i>	122.91	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	163.88	
32 31 19 00-0155 EA 10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,953.27	77.47
<i>For Solid Pickets, Add</i>	422.05	
<i>For Aluminum With Satin Finish, Add</i>	481.37	
<i>For Third Rail, Add</i>	129.06	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	172.08	
32 31 19 00-0156 EA 6' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,139.68	49.24
<i>For Solid Pickets, Add</i>	470.87	
<i>For Aluminum With Satin Finish, Add</i>	578.58	
<i>For Third Rail, Add</i>	149.92	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	199.90	
32 31 19 00-0157 EA 7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,268.57	59.39
<i>For Solid Pickets, Add</i>	497.70	
<i>For Aluminum With Satin Finish, Add</i>	604.19	
<i>For Third Rail, Add</i>	157.41	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	209.88	
32 31 19 00-0158 EA 8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,394.57	69.14
<i>For Solid Pickets, Add</i>	523.95	
<i>For Aluminum With Satin Finish, Add</i>	629.42	
<i>For Third Rail, Add</i>	164.77	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	219.69	
32 31 19 00-0159 EA 9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,500.28	79.39
<i>For Solid Pickets, Add</i>	545.56	
<i>For Aluminum With Satin Finish, Add</i>	648.07	
<i>For Third Rail, Add</i>	170.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	227.36	
32 31 19 00-0160 EA 10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,905.58	89.54
<i>For Solid Pickets, Add</i>	634.58	
<i>For Aluminum With Satin Finish, Add</i>	756.59	
<i>For Third Rail, Add</i>	198.74	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	264.98	
32 31 19 00-0161 EA 12' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,620.92	100.81
<i>For Solid Pickets, Add</i>	793.10	
<i>For Aluminum With Satin Finish, Add</i>	956.62	
<i>For Third Rail, Add</i>	249.96	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	333.28	
32 31 19 00-0162 EA 14' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,311.83	113.70
<i>For Solid Pickets, Add</i>	720.79	
<i>For Aluminum With Satin Finish, Add</i>	847.31	
<i>For Third Rail, Add</i>	224.01	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	298.69	
32 31 19 00-0163 EA 16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,546.86	128.63
<i>For Solid Pickets, Add</i>	770.49	
<i>For Aluminum With Satin Finish, Add</i>	898.72	
<i>For Third Rail, Add</i>	238.46	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	317.95	
32 31 19 00-0164 EA 18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,909.39	144.98
<i>For Solid Pickets, Add</i>	848.54	
<i>For Aluminum With Satin Finish, Add</i>	986.37	
<i>For Third Rail, Add</i>	262.13	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	349.51	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0165 EA 20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,990.40 862.83 987.06 264.27 352.36	163.35
32 31 19 00-0166 Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167 LF Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket For 1" Square x 14 Gauge Pickets, Add	29.47 0.92	
32 31 19 00-0168 Removal And Reinstallation Of Ornamental Fences (32 31 19) Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169 LF Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	45.69	
32 31 19 00-0170 LF Removal And Reinstallation Of Ornamental Fence, 6' Height	50.26	
32 31 19 00-0171 LF Removal And Reinstallation Of Ornamental Fence, 7' Height	54.83	
32 31 19 00-0172 LF Removal And Reinstallation Of Ornamental Fence, 8' Height	59.39	
32 31 19 00-0173 LF Removal And Reinstallation Of Ornamental Fence, 9' Height	63.96	
32 31 19 00-0174 LF Removal And Reinstallation Of Ornamental Fence, 10' Height	68.53	
32 31 19 00-0175 LF Removal And Reinstallation Of Ornamental Fence 12' Height	76.14	
32 31 23 Plastic Fences and Gates (32 31)		
32 31 23 00-0001 Vinyl Fence (32 31 23)		
32 31 23 00-0002 Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.		
32 31 23 00-0003 LF 3' High Privacy Tongue And Groove Vinyl Fence	58.48	6.38
32 31 23 00-0004 LF 4' High Privacy Tongue And Groove Vinyl Fence	65.57	7.66
32 31 23 00-0005 LF 5' High Privacy Tongue And Groove Vinyl Fence	73.23	8.93
32 31 23 00-0006 LF 6' High Privacy Tongue And Groove Vinyl Fence	80.75	10.21
32 31 23 00-0007 Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0008 LF 5' High Semi-Privacy 6" Picket Vinyl Fence	78.38	8.93
32 31 23 00-0009 LF 6' High Semi-Privacy 6" Picket Vinyl Fence	85.95	10.21
32 31 23 00-0010 Picket Straight Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0011 LF 3' High Picket Straight Top Vinyl Fence	53.94	6.38
32 31 23 00-0012 LF 4' High Picket Straight Top Vinyl Fence	61.26	7.66
32 31 23 00-0013 LF 5' High Picket Straight Top Vinyl Fence	70.22	8.93
32 31 23 00-0014 LF 6' High Picket Straight Top Vinyl Fence	77.80	10.21
32 31 23 00-0015 Picket Scalloped Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0016 LF 3' High Picket Scalloped Top Vinyl Fence	59.78	6.38
32 31 23 00-0017 LF 4' High Picket Scalloped Top Vinyl Fence	67.28	7.66
32 31 23 00-0018 LF 5' High Picket Scalloped Top Vinyl Fence	75.85	8.93
32 31 23 00-0019 LF 6' High Picket Scalloped Top Vinyl Fence	83.61	10.21
32 31 23 00-0020 Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.		
32 31 23 00-0021 LF 5' High, 2 Rail, Post And Rail Vinyl Fence	22.01	6.38
32 31 23 00-0022 LF 6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	28.22	7.66
32 31 23 00-0023 LF 7' High, 4 Rail, Post And Rail Vinyl Fence	32.48	8.30
32 31 23 00-0024 Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.		
32 31 23 00-0025 LF 3' High Rail And Picket Vinyl Fence, 72" On Center Posts	69.98	7.02
32 31 23 00-0026 LF 4' High Rail And Picket Vinyl Fence, 72" On Center Posts	76.48	8.30
32 31 23 00-0027 LF 3' High Rail And Picket Vinyl Fence, 96" On Center Posts	66.01	6.38
32 31 23 00-0028 LF 4' High Rail And Picket Vinyl Fence, 96" On Center Posts	71.83	7.66
32 31 23 00-0029 Vinyl Gates (32 31 23)		
32 31 23 00-0030 Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0031 3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0032 EA 3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	646.73 14.50 38.50	63.81
32 31 23 00-0033 EA 3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	686.21 14.50 38.50	67.00
32 31 23 00-0034 EA 3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	752.78 14.50 38.50	70.18
32 31 23 00-0035 EA 3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	843.43 14.50 38.50	73.37
32 31 23 00-0036 4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037 EA 4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	686.21 14.50 38.50	67.00
32 31 23 00-0038 EA 4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	710.65 14.50 38.50	70.18
32 31 23 00-0039 EA 4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	789.26 14.50 38.50	73.37
32 31 23 00-0040 EA 4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	925.04 14.50 38.50	76.56
32 31 23 00-0041 5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042 EA 5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	710.65 14.50 38.50	70.18
32 31 23 00-0043 EA 5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	741.11 14.50 38.50	73.37
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	849.81 14.50 38.50	76.56
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	991.61 14.50 38.50	79.75
32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	747.49 14.50 38.50	76.56
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	777.94 14.50 38.50	79.75
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	937.80 14.50 38.50	82.95
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	1,034.46 14.50 38.50	82.95
32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	619.65 14.50 38.50	63.81
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	644.08 14.50 38.50	67.00
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	722.69 14.50 38.50	70.18
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	858.47 14.50 38.50	73.37
32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	626.03 14.50 38.50	67.00
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	650.46 14.50 38.50	70.18

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0060	EA		4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	729.07 14.50 38.50	73.37
32 31 23 00-0061	EA		4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	864.85 14.50 38.50	76.56
32 31 23 00-0062			5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063	EA		5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	650.46 14.50 38.50	70.18
32 31 23 00-0064	EA		5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	680.92 14.50 38.50	73.37
32 31 23 00-0065	EA		5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	789.62 14.50 38.50	76.56
32 31 23 00-0066	EA		5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	931.42 14.50 38.50	79.75
32 31 23 00-0067			6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068	EA		6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	687.30 14.50 38.50	76.56
32 31 23 00-0069	EA		6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	717.75 14.50 38.50	79.75
32 31 23 00-0070	EA		6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	877.61 14.50 38.50	82.95
32 31 23 00-0071	EA		6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	974.28 14.50 38.50	86.14
32 31 23 00-0072			Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA		Gate Stop/Drop Rod	140.22	
32 31 23 00-0074	EA		Latch Set.....	96.58	
32 31 23 00-0075	EA		Stainless Steel Latch Set.....	140.22	
32 31 26			Wire Fences and Gates (32 31)		
32 31 26 13			Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001			Chicken Wire (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002	LF		4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.65	1.81
32 31 26 13-0003	LF		6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	9.42	1.81
32 31 26 13-0004			Wire And Screen (32 31 26 13)		
32 31 26 13-0005			Wire And Screen For Partitions And Fences (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006			Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF		Screen Wire, 48" Wide Rolls.....	15.10	1.28
32 31 26 13-0008			Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF		4" x 4" Hog Wire For Fencing	2.64	1.03
32 31 26 13-0010	SF		6" x 6" Hog Wire For Fencing	2.76	1.16
32 31 26 13-0011			Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF		4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	11.78	4.11
32 31 26 13-0013	LF		5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	15.10	5.14
32 31 26 13-0014	LF		6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	18.93	6.17
32 31 26 13-0015			Screen For Partitions And Ceilings (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF		1" Mesh Chicken Wire	2.55	0.72
32 31 26 13-0017			Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF		Steel Wicket Fence, Painted.....	89.98	5.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 Wood Fences and Gates <small>(32 31)</small>		
<small>See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.</small>		
32 31 29 00-0001 Basket Weave <small>(32 31 29)</small>		
<small>Note: 3/8" x 4" boards, 4" x 4" post</small>		
32 31 29 00-0002 LF 6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	44.28	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.99	
32 31 29 00-0003 LF 6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	29.13	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	1.86	
32 31 29 00-0004 Board Fence <small>(32 31 29)</small>		
<small>Note: 1x4" board, 2x4" rail, 4x4" post.</small>		
32 31 29 00-0005 LF Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	28.50	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-2.98	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	3.70	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	1.84	
32 31 29 00-0006 LF Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	31.73	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.24	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.00	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.04	
32 31 29 00-0007 LF Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	35.46	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.47	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.23	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.24	
32 31 29 00-0008 LF Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	37.88	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.65	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.43	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.38	
32 31 29 00-0009 LF Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	40.49	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.83	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.64	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.53	
32 31 29 00-0010 LF Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	30.49	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.06	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	3.76	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	1.94	
32 31 29 00-0011 LF Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	33.26	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.30	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.05	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.11	
32 31 29 00-0012 LF Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	35.46	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.47	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.23	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.24	
32 31 29 00-0013 LF Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	37.88	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.65	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.43	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.38	
32 31 29 00-0014 LF Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	40.49	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.83	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.64	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.53	
32 31 29 00-0015 LF Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	30.49	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.06	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	3.76	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	1.94	
32 31 29 00-0016 LF Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	40.05	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.58	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.25	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.45	
32 31 29 00-0017 LF Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence	41.97	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.73	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.43	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.56	
32 31 29 00-0018 LF Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence	45.16	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-3.94	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.65	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.74	
32 31 29 00-0019 LF Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence	48.61	3.63
<small>For 1" x 6" Boards, Deduct</small>		
	-4.16	
<small>For 1" x 3" Boards (Stockade Top), Add</small>		
	4.88	
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	2.93	
32 31 29 00-0020 Shadow Box <small>(32 31 29)</small>		
<small>Note: 1x6" board, 2x4" Rail, 4x4" post.</small>		
32 31 29 00-0021 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	61.57	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	3.46	
32 31 29 00-0022 LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	77.38	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	4.32	
32 31 29 00-0023 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	84.33	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	4.68	
32 31 29 00-0024 LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	90.62	3.63
<small>For Fastening With Screws Instead Of Nails, Add</small>		
	5.03	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0025			Open Rail Fence (32 31 29)		
32 31 29 00-0026			Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF		Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	28.55	3.63
32 31 29 00-0028	LF		Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	22.24	3.63
32 31 29 00-0029	LF		Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	33.85	3.63
32 31 29 00-0030	LF		Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	24.01	3.63
32 31 29 00-0031			Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032	LF		Split Rail Fence, 2 Rails, 3' High #1 Cedar.....	26.93	3.63
32 31 29 00-0033	LF		Split Rail Fence, 2 Rails, 3' High #2 Cedar.....	22.17	3.63
32 31 29 00-0034	LF		Split Rail Fence, 3 Rail, 4' High #1 Cedar.....	30.75	3.63
32 31 29 00-0035	LF		Split Rail Fence, 3 Rail, 4' High #2 Cedar.....	24.93	3.63
32 31 29 00-0036			Picket Fence (32 31 29)		
32 31 29 00-0037	LF		Picket Fence, 2 Rail, 3' High, Pressure Treated.....	32.63	3.63
			<i>For Fastening With Screws Instead Of Nails, Add</i>	2.06	
32 31 29 00-0038	LF		Picket Fence, 2 Rail, 3' High #1 Cedar.....	30.46	3.63
			<i>For Fastening With Screws Instead Of Nails, Add</i>	1.96	
32 31 29 00-0039			Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040	EA		3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	46.02	
32 31 29 00-0041	EA		4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	51.66	
32 31 29 00-0042	EA		6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	56.23	
32 31 29 00-0043	EA		8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	83.38	
32 31 29 00-0044			Wood Gate (32 31 29)		
32 31 29 00-0045			Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044)		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA		3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	464.23	145.98
32 31 29 00-0047	EA		3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	512.75	154.74
32 31 29 00-0048	EA		3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	572.96	169.34
32 31 29 00-0049	EA		3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	649.05	178.09
32 31 29 00-0050	EA		3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	725.14	186.85
32 31 29 00-0051	EA		>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	592.10	192.70
32 31 29 00-0052	EA		>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	644.09	201.45
32 31 29 00-0053	EA		>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	696.05	210.21
32 31 29 00-0054	EA		>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	782.47	218.97
32 31 29 00-0055	EA		>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	851.68	227.72
32 31 29 00-0056			Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044)		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA		3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	691.86	113.36
32 31 29 00-0058	EA		3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	715.81	120.17
32 31 29 00-0059	EA		3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	752.26	131.51
32 31 29 00-0060	EA		3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	793.42	138.30
32 31 29 00-0061	EA		3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	844.93	145.11
32 31 29 00-0062	EA		>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	816.10	149.65
32 31 29 00-0063	EA		>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	846.93	156.45
32 31 29 00-0064	EA		>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	894.99	163.24
32 31 29 00-0065	EA		>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	943.03	170.05
32 31 29 00-0066	EA		>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	991.10	176.85
32 31 29 00-0067			Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA		3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	743.54	113.36
32 31 29 00-0069	EA		3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	774.38	120.17
32 31 29 00-0070	EA		3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	814.27	131.51
32 31 29 00-0071	EA		3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	862.33	138.30
32 31 29 00-0072	EA		3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	910.39	145.11
32 31 29 00-0073	EA		>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	885.01	149.65
32 31 29 00-0074	EA		>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	915.83	156.45
32 31 29 00-0075	EA		>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	963.90	163.24
32 31 29 00-0076	EA		>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	1,011.94	170.05
32 31 29 00-0077	EA		>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	1,077.23	176.85



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0078 Pressure Treated Wood Fence Posts ^(32 31 29) See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0678 for barbed wire, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	44.26	14.59
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	49.70	14.59
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	78.11	28.02
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	84.31	28.02
32 31 29 00-0083 Wood Utility Pole Fence ^(32 31 29) Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence.....	55.22	3.63
		Note: Includes notching post, drilling and pinned with #5 rebar.
32 31 29 00-0085 Wood Rail Fence ^(32 31 29) Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	28.15	3.63
32 31 34 Tubular Barrier Gates ^(32 31)		
32 31 34 00-0001 Pipe Gate ^(32 31 34) Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0002 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,107.10	
32 31 34 00-0003 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	5,137.74	
32 31 34 00-0004 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	6,123.24	
32 31 41 Precast Concrete Fences ^(32 31)		
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. ^(32 31 41) Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	69.69	3.63
		Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.
32 31 56 Wild Life Deterrent Fence ^(32 31)		
32 31 56 00-0001 Barbed Wire Fences ^(32 31 56) Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts ^(32 31 56 00-0001)		
32 31 56 00-0003 Fence Post Soil, Set In Concrete ^(32 31 56 00-0002)		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	103.29	8.12
	166.74	
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil.....	139.43	8.12
	227.10	
32 31 56 00-0006 Post In Rock ^(32 31 56 00-0002)		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock.....	101.51	8.12
	164.07	
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock	137.65	8.12
	224.43	
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish ^(32 31 56 00-0001) Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	26.66	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth.....	27.31	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth	28.57	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth.....	29.83	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	31.49	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	35.51	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth	43.38	
32 31 56 00-0017 Barbed Wire ^(32 31 56 00-0001) Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.90	0.41
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	1.04	0.41
32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts ^(32 31 56 00-0001) Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 31	56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts Note: Posts at 10' maximum.	12.35	2.64
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32 32 Retaining Walls (32 30)**32 32 13 Cast-In-Place Concrete Retaining Wall** (32 32)

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001 Concrete Retaining Walls (32 32 13)

Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0002	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	384.07	142.97
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.35	
32 32 13 00-0003	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	478.80	175.94
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.78	
32 32 13 00-0004	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	521.28	189.77
		<i>For >3:1 Sloped Soil At Top, Add</i>	12.05	
32 32 13 00-0005	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	663.06	234.65
		<i>For >3:1 Sloped Soil At Top, Add</i>	16.48	
32 32 13 00-0006	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	764.05	269.52
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.12	
32 32 13 00-0007	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,106.06	395.40
		<i>For >3:1 Sloped Soil At Top, Add</i>	26.81	
32 32 13 00-0008	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,518.84	545.87
		<i>For >3:1 Sloped Soil At Top, Add</i>	36.30	
32 32 13 00-0009	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	421.94	156.14
		<i>For >3:1 Sloped Soil At Top, Add</i>	9.32	
32 32 13 00-0010	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	516.06	188.13
		<i>For >3:1 Sloped Soil At Top, Add</i>	11.89	
32 32 13 00-0011	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	546.05	196.31
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.04	
32 32 13 00-0012	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	750.24	263.09
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.04	
32 32 13 00-0013	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	951.86	337.94
		<i>For >3:1 Sloped Soil At Top, Add</i>	23.46	
32 32 13 00-0014	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,428.05	512.24
		<i>For >3:1 Sloped Soil At Top, Add</i>	34.31	
32 32 13 00-0015	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,015.44	723.05
		<i>For >3:1 Sloped Soil At Top, Add</i>	48.39	

32 32 16 Precast Concrete Retaining Walls (32 32)**32 32 16 00-0001 Precast Retaining Walls** (32 32 16)

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF	10-15' High, Tied-back, Precast Concrete Retaining Walls	98.28	14.84
32 32 16 00-0003	SF	16-20' High, Tied-back, Precast Concrete Retaining Walls	100.74	11.92
32 32 16 00-0004	SF	21-25' High, Tied-back, Precast Concrete Retaining Walls	104.33	9.94
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	112.77	9.94
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls	119.19	8.48

32 32 23 Segmental Retaining Walls (32 32)**32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls** (32 32 23)**32 32 23 13-0001 Modular Retaining Wall Systems** (32 32 23 13)

Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.

32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System	67.85	9.22
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.20	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	71.59	9.71
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.43	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	74.70	10.68
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.53	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	77.99	11.65
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.65	

32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	70.43	9.22
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.42	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	74.17	9.71
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.65	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	77.28	10.68
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.75	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	80.58	11.65
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.87	



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0013	SF		Up To 4' Height "Keystone" Type Modular Retaining Wall System.....	76.60	9.22
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.94	
32 32 23 13-0014	SF		4 To 8' Height "Keystone" Type Modular Retaining Wall System	80.34	9.71
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.18	
32 32 23 13-0015	SF		8 To 12' Height "Keystone" Type Modular Retaining Wall System	83.45	10.68
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.28	
32 32 23 13-0016	SF		12 To 16' Height "Keystone" Type Modular Retaining Wall System	86.75	11.65
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.39	
32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0018	SF		Up To 4' Height "Criblock" Type Modular Retaining Wall System.....	67.85	9.22
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.20	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0019	SF		4 To 8' Height "Criblock" Type Modular Retaining Wall System	71.59	9.71
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.43	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0020	SF		8 To 12' Height "Criblock" Type Modular Retaining Wall System	74.70	10.68
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.53	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0021	SF		12 To 16' Height "Criblock" Type Modular Retaining Wall System	77.99	11.65
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.65	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)					
32 32 23 13-0023	SF		Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	60.02	9.22
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.53	
32 32 23 13-0024	SF		4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	66.33	9.71
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.99	
32 32 23 13-0025	SF		8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System.....	69.49	10.68
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.09	
32 32 23 13-0026	SF		12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System.....	72.30	11.65
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.17	
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)					
			Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF		Removal And Reinstall Retaining Wall Cap Block And Pins.....	35.77	
			<i>For >3:1 Sloped Soil At Top, Add</i>	1.84	
32 32 26 Metal Crib Retaining Walls (32 32)					
32 32 26 00-0001 Aluminized Steel Bin (32 32 26)					
			Note: Excludes excavation and backfill.		
32 32 26 00-0002	SF		4' High, 5.5' Deep Aluminized Steel Bin.....	50.05	4.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.41	
			<i>For Galvanized Type, Deduct</i>	-4.01	
32 32 26 00-0003	SF		8' High, 5.5' Deep Aluminized Steel Bin.....	56.23	4.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.92	
			<i>For Galvanized Type, Deduct</i>	-4.62	
32 32 26 00-0004	SF		10' High, 7.7' Deep Aluminized Steel Bin.....	60.03	5.45
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.18	
			<i>For Galvanized Type, Deduct</i>	-4.92	
32 32 26 00-0005	SF		12' High, 7.7' Deep Aluminized Steel Bin.....	68.40	6.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.77	
			<i>For Galvanized Type, Deduct</i>	-5.61	
32 32 26 00-0006	SF		16' High, 7.7' Deep Aluminized Steel Bin.....	65.73	6.39
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.51	
			<i>For Galvanized Type, Deduct</i>	-5.31	
32 32 26 00-0007	SF		16' High, 9.9' Deep Aluminized Steel Bin.....	73.47	6.50
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.15	
			<i>For Galvanized Type, Deduct</i>	-6.06	
32 32 26 00-0008	SF		20' High, 9.9' Deep Aluminized Steel Bin.....	81.58	6.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.76	
			<i>For Galvanized Type, Deduct</i>	-6.78	
32 32 26 00-0009	SF		20' High, 12.1' Deep Aluminized Steel Bin.....	83.50	7.20
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.88	
			<i>For Galvanized Type, Deduct</i>	-6.92	
32 32 26 00-0010	SF		24' High, 12.1' Deep Aluminized Steel Bin.....	87.95	7.20
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.25	
			<i>For Galvanized Type, Deduct</i>	-7.36	
32 32 26 00-0011	SF		24' High, 14.3' Deep Aluminized Steel Bin.....	92.38	7.32
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.62	
			<i>For Galvanized Type, Deduct</i>	-7.79	
32 32 26 00-0012	SF		28' High, 14.3' Deep Aluminized Steel Bin.....	95.52	7.43
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.86	
			<i>For Galvanized Type, Deduct</i>	-8.08	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 32 29 Timber Retaining Walls** (32 32)**32 32 29 00-0001 Wood Post Retaining Walls** (32 32 29)

Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF 4" x 4", 1' High, Redwood, Wood Post Retaining Walls	89.79	31.84
	<i>For >3:1 Sloped Soil At Top, Add</i>	2.23	
32 32 29 00-0003	LF 4" x 4", 2' High, Redwood, Wood Post Retaining Walls	175.72	62.35
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.34	
32 32 29 00-0004	LF 4" x 4", 1' High, Cedar, Wood Post Retaining Walls	86.44	31.84
	<i>For >3:1 Sloped Soil At Top, Add</i>	1.94	
32 32 29 00-0005	LF 4" x 4", 2' High, Cedar, Wood Post Retaining Walls	169.21	62.35
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.79	
32 32 29 00-0006	LF 4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	84.58	27.82
	<i>For >3:1 Sloped Soil At Top, Add</i>	2.45	
32 32 29 00-0007	LF 4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	165.58	54.41
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.82	
32 32 29 00-0008	LF 4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	71.53	24.69
	<i>For >3:1 Sloped Soil At Top, Add</i>	1.88	
32 32 29 00-0009	LF 4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	129.34	44.69
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.40	
32 32 29 00-0010	LF 6" x 6", 2' High, Redwood, Wood Post Retaining Walls	236.53	75.53
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.27	
32 32 29 00-0011	LF 6" x 6", 4' High, Redwood, Wood Post Retaining Walls	466.96	148.04
	<i>For >3:1 Sloped Soil At Top, Add</i>	14.53	
32 32 29 00-0012	LF 6" x 6", 2' High, Cedar, Wood Post Retaining Walls	232.82	75.53
	<i>For >3:1 Sloped Soil At Top, Add</i>	6.95	
32 32 29 00-0013	LF 6" x 6", 4' High, Cedar, Wood Post Retaining Walls	457.66	148.04
	<i>For >3:1 Sloped Soil At Top, Add</i>	13.74	
32 32 29 00-0014	LF 6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	214.69	61.34
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.82	
32 32 29 00-0015	LF 6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	426.24	121.12
	<i>For >3:1 Sloped Soil At Top, Add</i>	15.63	
32 32 29 00-0016	LF 6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls	162.32	49.05
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.45	
32 32 29 00-0017	LF 6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls	319.25	95.97
	<i>For >3:1 Sloped Soil At Top, Add</i>	10.82	
32 32 29 00-0018	LF 8" x 8", 4' High, Redwood, Wood Post Retaining Walls	582.06	163.69
	<i>For >3:1 Sloped Soil At Top, Add</i>	21.64	
32 32 29 00-0019	LF 8" x 8", 6' High, Redwood, Wood Post Retaining Walls	1,088.73	305.59
	<i>For >3:1 Sloped Soil At Top, Add</i>	40.60	
32 32 29 00-0020	LF 8" x 8", 4' High, Cedar, Wood Post Retaining Walls	563.47	163.69
	<i>For >3:1 Sloped Soil At Top, Add</i>	20.06	
32 32 29 00-0021	LF 8" x 8", 6' High, Cedar, Wood Post Retaining Walls	1,053.42	305.59
	<i>For >3:1 Sloped Soil At Top, Add</i>	37.60	
32 32 29 00-0022	LF 8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	595.82	188.82
	<i>For >3:1 Sloped Soil At Top, Add</i>	18.54	
32 32 29 00-0023	LF 8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls	1,111.62	352.62
	<i>For >3:1 Sloped Soil At Top, Add</i>	34.54	
32 32 29 00-0024	LF 8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	458.56	152.63
	<i>For >3:1 Sloped Soil At Top, Add</i>	13.03	
32 32 29 00-0025	LF 8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	850.51	283.13
	<i>For >3:1 Sloped Soil At Top, Add</i>	24.17	
32 32 29 00-0026	LF 4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	172.36	62.90
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.95	
32 32 29 00-0027	LF 6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	257.62	94.41
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.85	
32 32 29 00-0028	LF 8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	342.76	125.80
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.74	
32 32 29 00-0029	LF 4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	116.66	35.53
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.87	
32 32 29 00-0030	LF 6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	169.51	51.28
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.69	
32 32 29 00-0031	LF 8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	229.54	69.28
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.74	

32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033	LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls	71.50	18.88
	<i>For >3:1 Sloped Soil At Top, Add</i>	2.87	
32 32 29 00-0034	LF 4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls	110.05	32.29
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.87	
32 32 29 00-0035	LF 6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls	144.39	40.11
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.45	
32 32 29 00-0036	LF 6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls	201.91	56.87
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.50	
32 32 29 00-0037	LF 6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	264.07	73.96
	<i>For >3:1 Sloped Soil At Top, Add</i>	9.87	
32 32 29 00-0038	LF 8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	541.75	146.37
	<i>For >3:1 Sloped Soil At Top, Add</i>	21.17	



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0039 LF 8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	612.24 24.49	162.12
32 32 29 00-0040 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	72.61 2.83	19.66
32 32 29 00-0041 LF 4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	127.48 4.90	34.97
32 32 29 00-0042 LF 6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	125.31 4.82	34.30
32 32 29 00-0043 LF 6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	175.65 6.56	49.27
32 32 29 00-0044 LF 6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	273.54 9.87	78.66
32 32 29 00-0045 LF 6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	216.56 8.14	60.45
32 32 29 00-0046 LF 8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	560.41 21.96	151.06
32 32 29 00-0047 LF 4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	91.76 1.62	36.31
32 32 29 00-0048 LF 4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	132.71 2.50	51.62
32 32 29 00-0049 LF 4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	192.73 4.34	70.84
32 32 29 00-0050 LF 6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	338.58 8.45	119.55
32 32 29 00-0051 LF 6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	343.23 8.85	119.55
32 32 29 00-0052 LF 6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	322.70 7.90	114.86
32 32 29 00-0053 LF 8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	758.86 19.59	264.24
32 32 29 00-0054 LF 4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	91.76 1.62	36.31
32 32 29 00-0055 LF 4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	132.71 2.50	51.62
32 32 29 00-0056 LF 4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	192.73 4.34	70.84
32 32 29 00-0057 LF 6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	242.21 5.61	88.15
32 32 29 00-0058 LF 6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	338.58 8.45	119.55
32 32 29 00-0059 LF 6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	322.70 7.90	114.86
32 32 29 00-0060 LF 8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	758.86 19.59	264.24
32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' <small>(32 32 29)</small> Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062 Redwood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063 LF 2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	122.01 3.79	38.66
32 32 29 00-0064 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	278.45 8.69	88.15
32 32 29 00-0065 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	416.82 12.95	132.18
32 32 29 00-0066 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	403.12 15.01	113.29
32 32 29 00-0067 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	605.75 22.59	169.94
32 32 29 00-0068 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	799.99 30.02	223.46
32 32 29 00-0069 Cedar <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070 LF 2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	120.16 3.63	38.66
32 32 29 00-0071 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	272.87 8.21	88.15
32 32 29 00-0072 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	409.39 12.32	132.18
32 32 29 00-0073 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	390.11 13.90	113.29
32 32 29 00-0074 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	587.17 21.01	169.94
32 32 29 00-0075 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	773.97 27.80	223.46
32 32 29 00-0076 Creosoted Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077 LF 2' High, 6" x 8" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	134.29 2.69	51.28

32 Exterior Improvements

32 30 Site Improvements

32 32 Retaining Walls



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 32 29 00-0078	LF 4' High, 6" x 8" Wood Tie Wall Deadman At 6'.....	307.61	117.99
	<i>For >3:1 Sloped Soil At Top, Add</i>	6.08	
32 32 29 00-0079	LF 6' High, 6" x 8" Wood Tie Wall Deadman At 6'.....	456.17	174.63
	<i>For >3:1 Sloped Soil At Top, Add</i>	9.08	
32 32 29 00-0080	LF 4' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	618.27	237.54
	<i>For >3:1 Sloped Soil At Top, Add</i>	12.16	
32 32 29 00-0081	LF 6' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	900.20	346.03
	<i>For >3:1 Sloped Soil At Top, Add</i>	17.69	
32 32 29 00-0082	LF 8' High, 7" x 9" Wood Tie Wall Deadman At 6'.....	1,194.50	458.77
	<i>For >3:1 Sloped Soil At Top, Add</i>	23.54	
32 32 29 00-0083 Pressure Treated Wood (32 32 29 00-0061)			
32 32 29 00-0084	LF 2' High, 6" x 6" Wood Tie Wall.....	105.81	31.96
	<i>For >3:1 Sloped Soil At Top, Add</i>	3.56	
32 32 29 00-0085	LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	240.47	72.40
	<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 29 00-0086	LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	360.25	108.60
	<i>For >3:1 Sloped Soil At Top, Add</i>	12.16	
32 32 29 00-0087	LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	392.15	130.62
	<i>For >3:1 Sloped Soil At Top, Add</i>	11.14	
32 32 29 00-0088	LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	589.15	195.20
	<i>For >3:1 Sloped Soil At Top, Add</i>	16.90	
32 32 29 00-0089	LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	781.08	259.55
	<i>For >3:1 Sloped Soil At Top, Add</i>	22.27	
32 32 53 Stone Retaining Walls (32 32)			
32 32 53 00-0001 Stone Retaining Walls (32 32 53)			
Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.			
32 32 53 00-0002 Stone Retaining Walls (32 32 53 00-0001)			
Note: Stone at \$16.00/ton.			
32 32 53 00-0003	LF \$16.00/ton 3' High Stone Retaining Wall, Dry Set.....	487.94	218.49
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.32	
32 32 53 00-0004	LF \$16.00/ton 4' High Stone Retaining Wall, Dry Set.....	575.53	259.94
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.73	
32 32 53 00-0005	LF \$16.00/ton 6' High Stone Retaining Wall, Dry Set.....	755.75	345.35
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.53	
32 32 53 00-0006	LF \$16.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,164.00	539.98
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.14	
32 32 53 00-0007	LF \$16.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,512.12	706.34
	<i>For >3:1 Sloped Soil At Top, Add</i>	8.45	
32 32 53 00-0008	LF \$16.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,876.39	879.61
	<i>For >3:1 Sloped Soil At Top, Add</i>	9.96	
32 32 53 00-0009	LF \$16.00/ton 3' High Stone Retaining Wall, Mortar Set.....	437.76	193.45
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.32	
32 32 53 00-0010	LF \$16.00/ton 4' High Stone Retaining Wall, Mortar Set.....	513.41	228.88
	<i>For >3:1 Sloped Soil At Top, Add</i>	4.73	
32 32 53 00-0011	LF \$16.00/ton 6' High Stone Retaining Wall, Mortar Set.....	664.05	299.44
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.53	
32 32 53 00-0012	LF \$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,016.40	466.20
	<i>For >3:1 Sloped Soil At Top, Add</i>	7.14	
32 32 53 00-0013	LF \$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,305.08	602.87
	<i>For >3:1 Sloped Soil At Top, Add</i>	8.45	
32 32 53 00-0014	LF \$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,621.01	751.97
	<i>For >3:1 Sloped Soil At Top, Add</i>	9.96	
32 32 53 00-0015 Stone Retaining Walls (32 32 53 00-0001)			
Note: Stone at \$32.00/ton.			
32 32 53 00-0016	LF \$32.00/ton 3' High Stone Retaining Wall, Dry Set.....	503.32	218.49
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.63	
32 32 53 00-0017	LF \$32.00/ton 4' High Stone Retaining Wall, Dry Set.....	596.83	259.94
	<i>For >3:1 Sloped Soil At Top, Add</i>	6.54	
32 32 53 00-0018	LF \$32.00/ton 6' High Stone Retaining Wall, Dry Set.....	786.50	345.35
	<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 53 00-0019	LF \$32.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,208.96	539.98
	<i>For >3:1 Sloped Soil At Top, Add</i>	10.96	
32 32 53 00-0020	LF \$32.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,573.64	706.34
	<i>For >3:1 Sloped Soil At Top, Add</i>	13.68	
32 32 53 00-0021	LF \$32.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,954.47	879.61
	<i>For >3:1 Sloped Soil At Top, Add</i>	16.59	
32 32 53 00-0022	LF \$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	453.14	193.45
	<i>For >3:1 Sloped Soil At Top, Add</i>	5.63	
32 32 53 00-0023	LF \$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	534.71	228.88
	<i>For >3:1 Sloped Soil At Top, Add</i>	6.54	
32 32 53 00-0024	LF \$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	694.80	299.44
	<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 53 00-0025	LF \$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,061.36	466.20
	<i>For >3:1 Sloped Soil At Top, Add</i>	10.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0026 LF \$32.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,366.60 13.68	602.87
32 32 53 00-0027 LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,699.09 16.59	751.97
32 32 53 00-0028 Stone Retaining Walls <small>(32 32 53 00-0001)</small> Note: Stone at \$48.00/ton.		
32 32 53 00-0029 LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	519.88 7.04	218.49
32 32 53 00-0030 LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	617.88 8.33	259.94
32 32 53 00-0031 LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	816.08 10.66	345.35
32 32 53 00-0032 LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,253.91 14.78	539.98
32 32 53 00-0033 LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,635.16 18.90	706.34
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	2,033.73 23.33	879.61
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	469.70 7.04	193.45
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	556.00 8.35	228.88
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	724.38 10.66	299.44
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,106.31 14.78	466.20
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,428.12 18.90	602.87
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,778.35 23.33	751.97
32 32 53 00-0041 Stone Retaining Walls <small>(32 32 53 00-0001)</small> Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	536.44 8.45	218.49
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	615.75 8.14	259.94
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	848.02 13.37	345.35
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,301.23 18.80	539.98
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,699.04 24.33	706.34
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	2,114.17 30.17	879.61
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	486.26 8.45	193.45
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	577.29 10.16	228.88
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	756.32 13.37	299.44
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,153.63 18.80	466.20
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,492.00 24.33	602.87
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,858.79 30.17	751.97
32 35 Screening Devices <small>(32 30)</small>		
32 35 16 Sound Barriers <small>(32 35)</small>		
32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns <small>(32 35 16)</small> Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)		
32 35 16 00-0002 4" Thick <small>(32 35 16 00-0001)</small>		
32 35 16 00-0003 LF 6' High x 4" Thick Precast Concrete Sound Walls	180.45	24.97
32 35 16 00-0004 LF 7' High x 4" Thick Precast Concrete Sound Walls	195.14	27.86
32 35 16 00-0005 LF 8' High x 4" Thick Precast Concrete Sound Walls	212.45	30.19
32 35 16 00-0006 LF 9' High x 4" Thick Precast Concrete Sound Walls	226.67	32.51
32 35 16 00-0007 LF 10' High x 4" Thick Precast Concrete Sound Walls	239.73	34.83
32 35 16 00-0008 LF 11' High x 4" Thick Precast Concrete Sound Walls	258.34	36.00
32 35 16 00-0009 LF 12' High x 4" Thick Precast Concrete Sound Walls	276.46	37.74
32 35 16 00-0010 6" Thick <small>(32 35 16 00-0001)</small>		
32 35 16 00-0011 LF 6' High x 6" Thick Precast Concrete Sound Walls	215.35	29.03

32 Exterior Improvements

32 30 Site Improvements

32 35 Screening Devices



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls		232.87	32.51
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls		253.52	36.00
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls		270.46	38.32
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls		286.05	40.63
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls		308.30	42.38
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls		329.98	44.12
32 35 16 00-0018		8" Thick <small>(32 35 16 00-0001)</small>			
32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls		260.15	34.83
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls		281.25	38.32
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls		306.19	41.80
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls		326.61	45.28
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls		345.43	48.19
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls		372.41	49.93
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls		398.72	52.25
32 35 16 00-0026		Redwood Top <small>(32 35 16 00-0001)</small>			
32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough.....		5.84	1.28
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough.....		6.71	1.67
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough.....		10.44	2.06
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough.....		12.60	2.56
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth.....		7.22	1.28
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth.....		10.50	1.67
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth.....		13.96	2.06
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth.....		16.79	2.56
32 39 Manufactured Site Specialties		<small>(32 30)</small>			
<p>Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.</p>					
32 39 13 Manufactured Metal Bollards		<small>(32 39)</small>			
32 39 13 00-0001		Metal Pipe Bollards <small>(32 39 13)</small>			
<p>Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.</p>					
32 39 13 00-0002		Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated <small>(32 39 13 00-0001)</small>			
32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....		115.52	13.51
		<i>For Galvanized Steel, Add</i>		15.05	
		<i>For 304 Stainless Steel, Add</i>		119.48	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>		132.08	
		<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>		89.70	
		<i>For Schedule 80, Add</i>		15.98	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>		9.67	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....		166.62	13.51
		<i>For Galvanized Steel, Add</i>		23.73	
		<i>For 304 Stainless Steel, Add</i>		188.46	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>		132.08	
		<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>		89.70	
		<i>For Schedule 80, Add</i>		23.64	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>		13.62	
32 39 13 00-0005	LF	8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....		240.83	16.90
		<i>For Galvanized Steel, Add</i>		35.20	
		<i>For 304 Stainless Steel, Add</i>		279.52	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>		173.12	
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>		132.89	
		<i>For Schedule 80, Add</i>		34.44	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>		18.19	
32 39 13 00-0006	LF	10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....		323.83	20.27
		<i>For Galvanized Steel, Add</i>		48.16	
		<i>For 304 Stainless Steel, Add</i>		382.44	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>		200.16	
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>		145.85	
		<i>For Schedule 80, Add</i>		46.55	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>		22.24	
32 39 13 00-0007	LF	12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....		405.61	27.02
		<i>For Galvanized Steel, Add</i>		59.77	
		<i>For 304 Stainless Steel, Add</i>		474.61	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>		265.49	
		<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>		200.44	
		<i>For Schedule 80, Add</i>		58.14	
		<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>		25.94	
32 39 13 00-0008		Cast Bollards <small>(32 39 13 00-0001)</small>			
32 39 13 00-0009	EA	36" Cast Aluminum Bollard, Black Powder Coat Finish		1,893.63	81.07
<p>Note: 8-1/2" diameter, embedded mounting plate, all colors.</p>					
32 39 13 00-0010	EA	36" Cast Aluminum Removable Bollard, Black Powder Coat Finish		3,195.74	81.07
<p>Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.</p>					



Exterior Improvements	32	32
Site Improvements	32 30	
Manufactured Site Specialties	32 39	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0011	EA		36" Cast Iron Bollard, Powder Coat Finish..... Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,605.75	81.07
32 39 13 00-0012	EA		36" Cast Iron Removable Bollard, Black Powder Coat Finish..... Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	2,915.56	81.07
32 39 23 Manufactured Concrete Bollards (32 39)					
32 39 23 00-0001			Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002			Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003	EA		12" x 12" x 30" High Concrete Bollard, Light Media Blast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	627.30	108.09
32 39 23 00-0004	EA		12" Diameter x 30" High Concrete Bollard, Light Media Blast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	627.30	108.09
32 39 25 Manufactured Wood Bollards (32 39)					
32 39 25 00-0001			Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002			Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003	LF		4" x 4", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	24.28 88.44	10.81
32 39 25 00-0004	LF		6" x 6", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	27.10 88.44	10.81
32 39 25 00-0005	LF		8" x 8", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	34.09 131.81	12.16
32 39 25 00-0006	LF		10" x 10", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	47.66 147.35	16.22
32 39 25 00-0007	LF		12" x 12", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	65.16 207.57	21.61
32 39 27 Manufactured Plastic Bollards (32 39)					
32 39 27 00-0001			Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 27 00-0002			Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003	EA		6" x 6" x 33" Surface Mounted Recycled Plastic Bollard..... Note: Includes anchor bolts.	354.86	54.05
32 39 27 00-0004	EA		6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard.....	574.55	54.05
32 39 27 00-0005			Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006	EA		4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	88.76 10.36	11.77
32 39 27 00-0007	EA		6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	95.94 10.36	12.94
32 39 27 00-0008	EA		3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe..... <i>For Reflective Tape, Add</i>	121.39 10.36	11.77
32 39 27 00-0009	EA		3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	121.39 10.36	11.77
32 39 27 00-0010	EA		3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe..... <i>For Reflective Tape, Add</i>	136.62 10.36	11.77
32 39 27 00-0011	EA		4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	121.39 10.36	11.77
32 39 27 00-0012	EA		4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe..... <i>For Reflective Tape, Add</i>	123.57 10.36	11.77
32 39 27 00-0013	EA		5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	121.39 10.36	11.77
32 39 27 00-0014	EA		5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	123.57 10.36	11.77
32 39 27 00-0015	EA		5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe..... <i>For Reflective Tape, Add</i>	173.60 10.36	11.77
32 39 27 00-0016	EA		6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	123.75 10.36	12.94
32 39 27 00-0017	EA		6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	158.56 10.36	12.94
32 39 27 00-0018	EA		6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	180.78 10.36	12.94
32 39 27 00-0019	EA		7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe..... <i>For Reflective Tape, Add</i>	152.21 10.36	14.12
32 39 27 00-0020	EA		8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe..... <i>For Reflective Tape, Add</i>	165.26 10.36	14.12
32 39 27 00-0021	EA		8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe..... <i>For Reflective Tape, Add</i>	165.26 10.36	14.12
32 39 27 00-0022	EA		10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe..... <i>For Reflective Tape, Add</i>	224.02 10.36	14.12

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 39 29 Manufactured Stone Bollards** (32 39)

CSI UOM	Description	Total Direct Unit Cost	Demolition Unit Cost
32 39 29 00-0001	Stone Bollards (32 39 29) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 29 00-0002	Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003	EA 16" x 16" x 30" Granite Bollard, Smooth Matt Finish.....	1,457.30	135.12
	Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0004	EA 16" x 16" x 54" Granite Bollard, Smooth Matt Finish.....	1,845.98	189.16
	Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0005	EA 12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top.....	904.77	135.12
	Note: Surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0006	EA 12" Diameter x 18" Granite Bollard, Smooth Matt Finish.....	1,338.50	108.09
	Note: Flat top, surface mounted with anchors embedded into grout pockets.		
32 39 29 00-0007	EA 24" x 24" x 20" Granite Bollard, Octagonal Cross Section.....	1,996.79	108.09
	Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.		

32 80 Irrigation (32)**32 84 Planting Irrigation** (32 84)**32 84 13 Drip Irrigation** (32 84)

CSI UOM	Description	Total Direct Unit Cost	Demolition Unit Cost
32 84 13 00-0001	Drip Emitter Irrigation Devices (32 84 13)		
32 84 13 00-0002	Drip Emitter Irrigation Valves (32 84 13 00-0001)		
32 84 13 00-0003	EA 1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050).....	53.73	12.37
32 84 13 00-0004	EA 1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100).....	88.58	12.37
32 84 13 00-0005	EA 3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075).....	86.15	12.37
32 84 13 00-0006	EA 3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS).....	118.89	12.37
32 84 13 00-0007	Drip Emitter Irrigation Filters (32 84 13 00-0001)		
32 84 13 00-0008	EA 3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	188.09	12.37
32 84 13 00-0009	EA 1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	189.89	12.37
32 84 13 00-0010	EA 3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX).....	68.95	12.37
32 84 13 00-0011	EA 1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX).....	70.39	12.37
32 84 13 00-0012	EA 1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	204.86	12.37
32 84 13 00-0013	EA 3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	90.62	12.37
32 84 13 00-0014	EA 1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	101.91	12.37
32 84 13 00-0015	Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)		
32 84 13 00-0016	EA 3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	67.49	12.37
32 84 13 00-0017	EA 3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	67.49	12.37
32 84 13 00-0018	EA 3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	67.49	12.37
32 84 13 00-0019	EA 1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	79.35	12.37
32 84 13 00-0020	Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF 1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	4.81	1.73
32 84 13 00-0022	LF 1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	4.31	1.98
32 84 13 00-0023	LF 1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	3.67	1.73
	For Shallow Trenching And Backfill By Hand, Add	7.08	
32 84 13 00-0024	LF 1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	4.41	1.98
	For Shallow Trenching And Backfill By Hand, Add	7.66	
32 84 13 00-0025	Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA 1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN).....	3.31	
32 84 13 00-0027	EA 1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	3.35	
32 84 13 00-0028	EA 1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE).....	3.41	
32 84 13 00-0029	EA 1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	3.63	
32 84 13 00-0030	EA 1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX).....	3.27	
32 84 13 00-0031	EA 17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP).....	3.52	
	For Compression Fitting, Add	0.43	
32 84 13 00-0032	EA 17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	3.64	
	For Compression Fitting, Add	0.55	
32 84 13 00-0033	EA 17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE).....	3.70	
	For Compression Fitting, Add	0.61	
32 84 13 00-0034	EA 17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050).....	3.74	
	For Compression Fitting, Add	0.65	



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0035	EA		17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)..... <i>For Compression Fitting, Add</i>	4.00 0.91	
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	4.29	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND).....	2.11	
32 84 13 00-0038			Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA		0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	6.84	
32 84 13 00-0040	EA		5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24).....	7.99	
32 84 13 00-0041	EA		0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056).....	17.42	
32 84 13 00-0042			Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA		Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK).....	26.51	11.13
32 84 13 00-0044	EA		Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK).....	26.57	11.13
32 84 13 00-0045	EA		12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	29.76	11.13
32 84 13 00-0046	EA		24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	30.10	11.13
32 84 13 00-0047	EA		4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)..... Note: Includes nozzle.	44.24	14.59
32 84 13 00-0048	EA		6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)..... Note: Includes nozzle.	48.34	14.59
32 84 13 00-0049	EA		12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)..... Note: Includes nozzle.	50.71	14.59
32 84 13 00-0050			Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF		0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield).....	4.94	2.16
32 84 23			Underground Sprinklers (32 84)		
32 84 23 00-0001			Sprinkler Heads (32 84 23)		
32 84 23 00-0002			Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA		2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)..... <i>For Rotary Nozzle, Add</i>	38.76 3.25	13.67
32 84 23 00-0004	EA		4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)..... <i>For Rotary Nozzle, Add</i>	36.43 3.25	13.67
32 84 23 00-0005	EA		6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)..... <i>For Rotary Nozzle, Add</i>	45.06 3.25	13.67
32 84 23 00-0006	EA		12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)..... <i>For Rotary Nozzle, Add</i>	52.28 3.25	13.67
32 84 23 00-0007	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)..... <i>For Rotary Nozzle, Add</i>	39.68 3.25	13.67
32 84 23 00-0008	EA		6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)..... <i>For Rotary Nozzle, Add</i>	51.82 3.25	13.67
32 84 23 00-0009	EA		12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)..... <i>For Rotary Nozzle, Add</i>	57.67 3.25	13.67
32 84 23 00-0010	EA		4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)..... <i>For Rotary Nozzle, Add</i>	43.14 3.25	13.67
32 84 23 00-0011	EA		6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)..... <i>For Rotary Nozzle, Add</i>	54.21 3.25	13.67
32 84 23 00-0012	EA		12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)..... <i>For Rotary Nozzle, Add</i>	59.66 3.25	13.67
32 84 23 00-0013	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	44.52 3.25	13.67
32 84 23 00-0014	EA		6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	61.51 3.25	13.67
32 84 23 00-0015	EA		12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	66.89 3.25	13.67
32 84 23 00-0016	EA		Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)..... <i>For Rotary Nozzle, Add</i>	31.90 3.25	13.67
32 84 23 00-0017	EA		Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400).....	37.30	13.67
32 84 23 00-0018			Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019			1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)..... <i>For Non-Potable Cover, Add</i>	55.82 2.00	13.67
32 84 23 00-0021	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)..... <i>For Non-Potable Cover, Add</i>	57.74 2.00	13.67

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0022			3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC).....	51.21	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC).....	71.96	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS).....	55.05	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS).....	75.04	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0027	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR).....	56.59	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR).....	59.66	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR).....	79.65	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030	EA		12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	91.95	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	59.28	13.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0032	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	71.58	13.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0033			1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA		4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC).....	100.79	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
			For Stainless Steel Riser And High Speed Rotor, Add	56.58	
32 84 23 00-0035			1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005).....	145.37	13.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037			Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	79.27	13.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	60.82	13.67
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	122.28	13.67
32 84 23 00-0041			Electric Remote Control Irrigation Valves (32 84 23) Note: 15 to 150 PSI.		
32 84 23 00-0042			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	163.44	56.95
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	163.44	56.95
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	179.72	64.92
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	164.97	56.95
32 84 23 00-0047			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	164.97	56.95



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0049	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	182.02	64.92
32 84 23 00-0050	EA		1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	183.56	64.92
32 84 23 00-0051			0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI.		
32 84 23 00-0052	EA		1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	287.96	56.95
32 84 23 00-0053	EA		1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	341.77	56.95
32 84 23 00-0054	EA		2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	410.95	56.95
32 84 23 00-0055			5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	419.08	64.01
32 84 23 00-0057	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	472.89	64.01
32 84 23 00-0058	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	542.07	64.01
32 84 23 00-0059			20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	495.95	64.01
32 84 23 00-0061	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	549.76	64.01
32 84 23 00-0062	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	618.94	64.01
32 84 23 00-0063			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	441.00	56.95
32 84 23 00-0065	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	688.38	56.95
32 84 23 00-0066	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	710.74	56.95
32 84 23 00-0067	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,694.22	76.87
32 84 23 00-0068			5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041)		
			Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA		1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP).....	402.40	64.01
32 84 23 00-0070	EA		1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	475.97	64.01
32 84 23 00-0071	EA		1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	555.83	64.01
32 84 23 00-0072	EA		2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP).....	660.99	64.01
32 84 23 00-0073			0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA		1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	540.68	64.01
32 84 23 00-0075	EA		1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	834.17	64.01
32 84 23 00-0076	EA		2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	859.33	64.01
32 84 23 00-0077	EA		3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	1,818.08	64.01
32 84 23 00-0078			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	552.81	56.95
32 84 23 00-0080	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	800.18	56.95
32 84 23 00-0081	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	822.54	56.95

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0082	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,806.03	76.87
32 84 23 00-0083			5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041)		
			Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA		1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	517.71	64.01
32 84 23 00-0085	EA		1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	591.27	64.01
32 84 23 00-0086	EA		1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	671.14	64.01
32 84 23 00-0087	EA		2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	776.29	64.01
32 84 23 00-0088			0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA		1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	652.48	64.01
32 84 23 00-0090	EA		1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	945.98	64.01
32 84 23 00-0091	EA		2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	971.14	64.01
32 84 23 00-0092	EA		3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,929.89	64.01
32 84 23 00-0093			Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094	EA		Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	160.86	
32 84 23 00-0095			Remote Control Valve Assemblies (32 84 23 00-0041)		
			Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA		1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	587.66	142.36
32 84 23 00-0097	EA		1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	641.47	142.36
32 84 23 00-0098	EA		2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	710.65	142.36
32 84 23 00-0099	EA		1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	664.53	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0100	EA		1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	718.34	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0101	EA		2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	787.52	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0102	EA		1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	686.29	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0103	EA		1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	839.71	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0104	EA		2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	944.87	142.36
			Note: Purple components for use with recycled water		
32 84 23 00-0105			Irrigation Valve Boxes (32 84 23)		
			Note: Includes lid.		
32 84 23 00-0106	EA		6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	97.12	41.00
32 84 23 00-0107	EA		7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	115.28	41.00
32 84 23 00-0108	EA		10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	151.17	53.98
32 84 23 00-0109	EA		21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	249.77	78.81
32 84 23 00-0110	EA		21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	254.94	78.81
32 84 23 00-0111	EA		26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	291.99	78.81
32 84 23 00-0112	EA		26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	296.40	78.81
32 84 23 00-0113	EA		33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	508.14	78.81
32 84 23 00-0114	EA		40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	782.39	78.81
32 84 23 00-0115	EA		Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	459.50	134.92
			For 12" Extension, Add	99.79	
32 84 23 00-0116	EA		Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	728.92	134.92
			For 12" Extension, Add	99.79	
32 84 23 00-0117	EA		12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	204.18	68.33



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	294.32	78.81
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10).....	157.64	53.98
32 84 23 00-0120 Irrigation Controllers (32 84 23) See CSI section 27 15 13 00-0256 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	428.95	36.00
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	598.55	36.00
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	768.16	36.00
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	937.77	36.00
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,071.37	36.00
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,245.47	36.00
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,419.59	36.00
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	507.58	36.00
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	677.18	36.00
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	846.79	36.00
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,016.40	36.00
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,150.00	36.00
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,324.10	36.00
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,498.22	36.00
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	702.08	36.00
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	871.68	36.00
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,041.30	36.00
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,210.90	36.00
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,344.51	36.00
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,518.61	36.00
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,692.72	36.00
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	761.00	36.00
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	930.60	36.00
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,100.22	36.00
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,269.82	36.00
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,403.42	36.00
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,577.53	36.00
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,751.64	36.00
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	174.11	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	331.81	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	494.25	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,030.02	36.00
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,244.50	36.00

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,462.78	36.00
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,677.26	36.00
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,895.54	36.00
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,110.01	36.00
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,328.30	36.00
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,542.77	36.00
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,761.06	36.00
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,975.53	36.00
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,044.36	36.00
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,258.82	36.00
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,477.12	36.00
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,691.58	36.00
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,909.88	36.00
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,124.35	36.00
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,342.63	36.00
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,557.11	36.00
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,775.39	36.00
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,989.87	36.00
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	3,208.15	36.00
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	785.94	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM).....	1,829.29	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,748.82	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	3,888.52	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	214.47	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	432.76	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	673.45	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	253.15	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	508.42	36.00
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	611.14	36.00
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	751.79	36.00
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	667.34	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	125.09	27.00
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	170.93	27.00
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	357.32	27.00
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	380.20	27.00
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	578.50	27.00
32 84 23 00-0208 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209)		
Note: Includes water resistant cabinet.		
32 84 23 00-0211 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,049.99	36.00
32 84 23 00-0212 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	4,271.11	36.00
32 84 23 00-0213 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	5,492.20	36.00
32 84 23 00-0214 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0215 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	368.69	36.00
32 84 23 00-0216 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....	470.60	36.00
32 84 23 00-0217 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	707.53	36.00
32 84 23 00-0218 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	869.18	36.00
32 84 23 00-0219 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....	1,450.07	36.00
32 84 23 00-0220 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	2,252.38	
32 84 23 00-0222 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75).....	1,221.11	
32 84 23 00-0223 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....	277.93	31.51
32 84 23 00-0224 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF).....	1,300.75	36.00
32 84 23 00-0225 Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226 Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227 EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	2,801.01	90.00
32 84 23 00-0228 EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	3,615.92	101.25
32 84 23 00-0229 EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	4,967.21	112.51
32 84 23 00-0230 EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	5,467.03	112.51
32 84 23 00-0231 EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	6,464.79	123.76
32 84 23 00-0232 EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	7,805.77	123.76
32 84 23 00-0233 EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	8,840.12	135.01
32 84 23 00-0234 EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	9,900.71	135.01
32 84 23 00-0235 EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....	2,860.62	45.01
32 84 23 00-0236 EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....	1,198.25	45.01
32 84 23 00-0237 Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238 EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	117.03	
32 84 23 00-0239 EA Spare Lock For Enclosures (Calsense PAD).....	126.78	
32 84 23 00-0240 EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....	149.28	11.25
32 84 23 00-0241 EA Transformer For Irrigation Controllers (Calsense TR-1).....	211.91	45.01
32 84 23 00-0242 EA AC Line Protection For Irrigation Controllers (Calsense TP-110).....	589.82	45.01
32 84 23 00-0243 EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....	784.87	45.01
<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	359.03	
32 84 23 00-0244 Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245 Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246 EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5).....	1,378.47	67.50
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-993.46	
32 84 23 00-0247 EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2).....	1,427.23	67.50
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,042.22	
32 84 23 00-0248 EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3).....	1,475.99	67.50
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,090.98	
32 84 23 00-0249 EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B).....	1,630.70	90.00
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,245.23	
32 84 23 00-0250 EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B).....	1,752.61	90.00
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,367.14	
32 84 23 00-0251 EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B).....	1,801.37	90.00
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,415.90	
32 84 23 00-0252 EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B).....	2,118.33	90.00
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,604.83	
32 84 23 00-0253 EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX).....	1,650.42	45.01
<i>Note: For 4" and larger pipe. Excludes pipe saddle.</i>		
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,136.92	
32 84 23 00-0254 Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255 EA Soil Moisture Sensor (Calsense 1000-S).....	579.51	33.75
32 84 23 00-0256 Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257 EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	1,581.94	90.00
32 84 23 00-0258 EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,810.72	180.00
32 84 23 00-0259 EA ET Gage, Irrigation Weather Sensor (Calsense ETG).....	3,622.48	135.01
32 84 23 00-0260 Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261 EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	1,065.26	
32 84 23 00-0262 EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	2,016.14	
32 84 23 00-0263 EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	1,065.26	45.01
32 84 23 00-0264 EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	2,470.97	45.01

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0265			Antennas For Irrigation Controllers (32 84 23 00-0225) Note: Excludes antenna cable.		
32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME)	553.25	45.01
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK)	809.25	45.01
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI)	899.25	90.00
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	553.25	45.01
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	553.25	45.01
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY)	553.25	45.01
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK)	809.25	45.01
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME)	553.25	45.01
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK)	809.25	45.01
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	899.25	90.00
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	553.25	45.01
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	553.25	45.01
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	553.25	45.01
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY)	553.25	45.01
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB)	15.22	0.54
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT)	557.02	22.50
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	906.78	45.01
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	792.40	
32 84 23 00-0284	EA		Local Radio Frequency Filter (Calsense LR-FILTER)	1,121.55	
32 84 23 00-0285	EA		Spread Spectrum Frequency Filter (Calsense SR-FILTER)	828.97	
32 84 23 00-0286			Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287	EA		15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	500.73	67.50
32 84 23 00-0288	EA		Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,222.43	112.51
32 84 23 00-0289	EA		Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	1,370.03	45.01
			Note: Includes GFI and receptacle.		
32 84 23 00-0290	EA		Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,640.11	33.75
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)	5,152.71	33.75
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)	5,821.53	33.75
			Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	8,443.56	67.50
			Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	8,850.84	67.50
			Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295	EA		Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	288.48	
32 84 23 00-0296	EA		Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	933.04	
32 84 23 00-0297			Central Computer For Irrigation Control Systems (32 84 23 00-0225)		
32 84 23 00-0298	EA		Central Computer For Irrigation Control Systems (Calsense COMP-2)	6,495.68	
			Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299	EA		Command Center Water Management Software For Central Computer (Calsense COMM-1)	11,504.98	
32 84 23 00-0300	EA		Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5)	2,206.10	
			Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301	EA		>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10)	4,349.18	
			Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302	EA		Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	7,004.48	
32 84 23 00-0303	EA		GPRS Radio For Use At Central Computer (Calsense DTR-G)	4,189.18	
32 84 23 00-0304			Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)	35.46	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)	387.89	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)	1,662.38	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M)	144.07	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M)	1,551.55	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M)	6,649.50	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311			Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312	EA		FCC License Fee (Calsense)	233.41	
32 84 23 00-0313	EA		P.C.I.A. And/or A.P.C.O. Fee (Calsense)	455.06	
			Note: Per frequency or frequency pair.		
32 84 23 00-0314	EA		Hardware Communication Option For Irrigation Controllers (Calsense M)	1,285.57	
			Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315	EA		Phone Line Communication Option For Irrigation Controllers (Calsense R)	1,352.06	
32 84 23 00-0316	EA		Ethernet Communication Option For Irrigation Controllers (Calsense EN)	1,352.06	
32 84 23 00-0317	EA		WiFi Communication Option For Irrigation Controllers (Calsense WEN)	2,770.62	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR).....	3,524.24	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	3,524.24	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....	3,524.24	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM).....	11,304.15	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB).....	4,350.56	
Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO).....	1,719.13	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO).....	1,719.13	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO).....	1,719.13	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO).....	1,719.13	
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO).....	1,807.79	
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO).....	2,140.26	
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO).....	3,436.92	
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO).....	2,029.44	
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO).....	4,290.27	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO).....	5,575.84	
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro).....	2,029.44	
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	4,290.27	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO).....	5,575.84	
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro).....	2,029.44	
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	2,140.26	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO).....	3,436.92	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	2,029.44	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,290.27	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	5,575.84	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	2,040.52	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe).....	438.87	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG).....	188.40	
32 84 23 00-0353 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	332.81	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT).....	210.90	11.25
Note: Excludes antenna cable.		
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP).....	410.39	11.25
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome).....	443.64	11.25
Note: Excludes antenna cable.		
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	4,771.09	202.51
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	5,031.52	213.76
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS).....	6,999.81	225.01

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0361	LEIT Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0362	LEIT X Series Irrigation Controller <small>(32 84 23 00-0361)</small>		
32 84 23 00-0363	EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,492.07	36.00
32 84 23 00-0364	EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,929.56	36.00
32 84 23 00-0365	EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,639.83	36.00
32 84 23 00-0366	EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,350.09	36.00
32 84 23 00-0367	EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,850.60	36.00
32 84 23 00-0368	EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,351.11	36.00
32 84 23 00-0369	LEIT X Series Irrigation Controller Assembly <small>(32 84 23 00-0361)</small>		
	Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370	EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,065.08	187.07
32 84 23 00-0371	EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,502.59	187.07
32 84 23 00-0372	EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,212.86	187.07
32 84 23 00-0373	EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,923.11	187.07
32 84 23 00-0374	EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,423.63	187.07
32 84 23 00-0375	EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,924.13	187.07
32 84 23 00-0376	Enclosure For LEIT Controller Assembly <small>(32 84 23 00-0361)</small>		
	Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377	EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch.....	3,430.66	251.92
	Note: For LEIT Controller		
32 84 23 00-0378	Hunter Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0379	Hunter XC Hybrid Controller <small>(32 84 23 00-0378)</small>		
	Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380	EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS).....	735.75	90.00
32 84 23 00-0381	EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS).....	936.42	112.51
32 84 23 00-0382	DC Latching Solenoid <small>(32 84 23 00-0120)</small>		
32 84 23 00-0383	EA DC Latching Solenoid (Micro Power Solenoid) For Non-LEIT Controllers.....	40.55	
	Note: As per manufacture of valve.		
32 84 23 00-0384	EA DC Solenoid For LEIT Controllers (DIG S-305DC).....	64.18	
32 84 23 00-0385	Irrigation Controller Enclosure Cabinet <small>(32 84 23 00-0120)</small>		
	Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386	EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,259.65	494.71
32 84 23 00-0387	EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,516.46	539.68
32 84 23 00-0388	EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,887.95	584.65
32 84 23 00-0389	EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet.....	3,259.67	494.71
32 84 23 00-0390	EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,516.46	539.68
32 84 23 00-0391	EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,887.95	584.65
32 84 23 00-0392	EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,062.55	494.71
32 84 23 00-0393	EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,419.70	539.68
32 84 23 00-0394	EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,791.19	584.65
32 84 23 00-0395	Irrigation Valves <small>(32 84 23)</small>		
32 84 23 00-0396	Reduced Pressure Zone Valves With QT Shut-Offs <small>(32 84 23 00-0395)</small>		
	Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397	EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	879.82	46.99
32 84 23 00-0398	EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,043.76	57.37
32 84 23 00-0399	EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,579.26	66.77
32 84 23 00-0400	EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,669.19	76.67
32 84 23 00-0401	EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	2,002.09	98.92
32 84 23 00-0402	Brass Quick-Coupling Irrigation Valves <small>(32 84 23 00-0395)</small>		
32 84 23 00-0403	EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	189.50	41.00
	For Valve Key, Add	56.50	
32 84 23 00-0404	EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	196.03	41.00
	For Locking Cover, Add	25.00	
	For Valve Key, Add	56.50	
32 84 23 00-0405	EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	267.91	41.00
	For Valve Key, Add	144.51	
32 84 23 00-0406	EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	294.04	41.00
	For Valve Key, Add	144.51	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP)	281.74	41.00
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	294.04	41.00
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker <small>(32 84 23 00-0395)</small>		
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	304.08	34.62
32 84 23 00-0411 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	435.90	39.57
32 84 23 00-0412 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	791.37	45.75
32 84 23 00-0413 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	963.94	50.70
32 84 23 00-0414 EA 2" Anti-Siphon Pressure Type Vacuum Breaker.....	972.05	61.82
32 84 23 00-0415 Aluminum Cam And Groove Adapter <small>(32 84 23 00-0395)</small>		
32 84 23 00-0416 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread	44.10	
32 84 23 00-0417 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	46.57	
32 84 23 00-0418 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	45.37	
32 84 23 00-0419 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	48.94	
32 84 23 00-0420 Manual Sprinkler Control Valves <small>(32 84 23 00-0395)</small>		
32 84 23 00-0421 EA 3/4" Manual Sprinkler Control Valves, With Union.....	104.26	33.39
32 84 23 00-0422 EA 1" Manual Sprinkler Control Valves, With Union.....	127.06	35.85
32 84 23 00-0423 EA 1-1/4" Manual Sprinkler Control Valves, With Union.....	194.74	45.38
32 84 23 00-0424 EA 1-1/2" Manual Sprinkler Control Valves, With Union.....	230.84	52.30
32 84 23 00-0425 EA 2" Manual Sprinkler Control Valves, With Union.....	309.58	61.82
32 84 23 00-0426 Irrigation Piping <small>(32 84 23)</small>		
32 84 23 00-0427 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0426)</small>		
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0428 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0427)</small>		
32 84 23 00-0429 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.77	1.14
For >1,000, Deduct	-0.19	
32 84 23 00-0430 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.65	1.42
For >1,000, Deduct	-0.23	
32 84 23 00-0431 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.75	1.71
For >1,000, Deduct	-0.29	
32 84 23 00-0432 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.74	2.16
For >1,000, Deduct	-0.39	
32 84 23 00-0433 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	9.84	2.71
For >1,000, Deduct	-0.49	
32 84 23 00-0434 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	13.04	3.16
For >1,000, Deduct	-0.65	
32 84 23 00-0435 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	17.69	4.56
For >1,000, Deduct	-0.88	
32 84 23 00-0436 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	23.54	5.70
For >1,000, Deduct	-1.18	
32 84 23 00-0437 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	35.10	7.11
For >1,000, Deduct	-1.76	
32 84 23 00-0438 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0427)</small>		
32 84 23 00-0439 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.26	1.42
For >1,000, Deduct	-0.21	
32 84 23 00-0440 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.09	1.71
For >1,000, Deduct	-0.25	
32 84 23 00-0441 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.28	2.16
For >1,000, Deduct	-0.36	
32 84 23 00-0442 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	9.45	2.71
For >1,000, Deduct	-0.47	
32 84 23 00-0443 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	12.45	3.16
For >1,000, Deduct	-0.62	
32 84 23 00-0444 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	17.46	4.56
For >1,000, Deduct	-0.87	
32 84 23 00-0445 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	24.76	5.70
For >1,000, Deduct	-1.24	
32 84 23 00-0446 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	42.83	7.11
For >1,000, Deduct	-2.14	
32 84 23 00-0447 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers <small>(32 84 23 00-0427)</small>		
32 84 23 00-0448 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.59	1.42
For >1,000, Deduct	-0.23	
32 84 23 00-0449 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.54	1.71
For >1,000, Deduct	-0.28	

32 Exterior Improvements

32 80 Irrigation

32 84 Planting Irrigation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0450	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.14	2.16
			<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0451	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	10.88	2.71
			<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0452	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.72	3.16
			<i>For >1,000, Deduct</i>	-0.74	
32 84 23 00-0453	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	17.69	4.56
			<i>For >1,000, Deduct</i>	-0.88	
32 84 23 00-0454	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	23.54	5.70
			<i>For >1,000, Deduct</i>	-1.18	
32 84 23 00-0455	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	35.85	7.11
			<i>For >1,000, Deduct</i>	-1.79	
32 84 23 00-0456			Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted		
			<small>(32 84 23 00-0426)</small> Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0457			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted		
			<small>(32 84 23 00-0456)</small>		
32 84 23 00-0458	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.79	1.42
			<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0459	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.88	1.71
			<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0460	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.88	2.16
			<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0461	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	11.98	2.71
			<i>For >1,000, Deduct</i>	-0.60	
32 84 23 00-0462	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.18	3.16
			<i>For >1,000, Deduct</i>	-0.76	
32 84 23 00-0463	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	19.81	4.56
			<i>For >1,000, Deduct</i>	-0.99	
32 84 23 00-0464	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	25.68	5.70
			<i>For >1,000, Deduct</i>	-1.28	
32 84 23 00-0465	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	37.24	7.11
			<i>For >1,000, Deduct</i>	-1.86	
32 84 23 00-0466			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted		
			<small>(32 84 23 00-0456)</small>		
32 84 23 00-0467	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.05	1.42
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0468	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.14	1.71
			<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0469	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.13	2.16
			<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0470	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.23	2.71
			<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0471	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.43	3.16
			<i>For >1,000, Deduct</i>	-0.77	
32 84 23 00-0472	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	20.08	4.56
			<i>For >1,000, Deduct</i>	-1.00	
32 84 23 00-0473	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	25.94	5.70
			<i>For >1,000, Deduct</i>	-1.30	
32 84 23 00-0474	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	37.50	7.11
			<i>For >1,000, Deduct</i>	-1.88	
32 84 23 00-0475			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted		
			<small>(32 84 23 00-0456)</small>		
32 84 23 00-0476	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.31	1.42
			<i>For >1,000, Deduct</i>	-0.37	
32 84 23 00-0477	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.40	1.71
			<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0478	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.39	2.16
			<i>For >1,000, Deduct</i>	-0.52	
32 84 23 00-0479	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.49	2.71
			<i>For >1,000, Deduct</i>	-0.62	
32 84 23 00-0480	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	15.69	3.16
			<i>For >1,000, Deduct</i>	-0.78	
32 84 23 00-0481	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	20.34	4.56
			<i>For >1,000, Deduct</i>	-1.02	
32 84 23 00-0482	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	26.20	5.70
			<i>For >1,000, Deduct</i>	-1.31	
32 84 23 00-0483	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	37.75	7.11
			<i>For >1,000, Deduct</i>	-1.89	
32 84 23 00-0484			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted		
			<small>(32 84 23 00-0456)</small>		
32 84 23 00-0485	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	6.58	1.42
			<i>For >1,000, Deduct</i>	-0.33	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0486 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.54	1.71
For >1,000, Deduct	-0.38	
32 84 23 00-0487 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.91	2.16
For >1,000, Deduct	-0.50	
32 84 23 00-0488 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	12.66	2.71
For >1,000, Deduct	-0.63	
32 84 23 00-0489 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.30	3.16
For >1,000, Deduct	-0.82	
32 84 23 00-0490 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	19.59	4.56
For >1,000, Deduct	-0.98	
32 84 23 00-0491 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	26.90	5.70
For >1,000, Deduct	-1.35	
32 84 23 00-0492 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	44.97	7.11
For >1,000, Deduct	-2.25	
32 84 23 00-0493 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0456)</small>		
32 84 23 00-0494 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.84	1.42
For >1,000, Deduct	-0.34	
32 84 23 00-0495 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	7.80	1.71
For >1,000, Deduct	-0.39	
32 84 23 00-0496 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.16	2.16
For >1,000, Deduct	-0.51	
32 84 23 00-0497 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	12.91	2.71
For >1,000, Deduct	-0.65	
32 84 23 00-0498 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.55	3.16
For >1,000, Deduct	-0.83	
32 84 23 00-0499 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	19.86	4.56
For >1,000, Deduct	-0.99	
32 84 23 00-0500 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	27.16	5.70
For >1,000, Deduct	-1.36	
32 84 23 00-0501 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	45.23	7.11
For >1,000, Deduct	-2.26	
32 84 23 00-0502 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0456)</small>		
32 84 23 00-0503 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.10	1.42
For >1,000, Deduct	-0.36	
32 84 23 00-0504 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.06	1.71
For >1,000, Deduct	-0.40	
32 84 23 00-0505 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.42	2.16
For >1,000, Deduct	-0.52	
32 84 23 00-0506 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	13.17	2.71
For >1,000, Deduct	-0.66	
32 84 23 00-0507 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	16.81	3.16
For >1,000, Deduct	-0.84	
32 84 23 00-0508 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	20.12	4.56
For >1,000, Deduct	-1.01	
32 84 23 00-0509 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	27.42	5.70
For >1,000, Deduct	-1.37	
32 84 23 00-0510 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	45.48	7.11
For >1,000, Deduct	-2.27	
32 84 23 00-0511 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0456)</small>		
32 84 23 00-0512 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.72	1.42
For >1,000, Deduct	-0.34	
32 84 23 00-0513 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.66	1.71
For >1,000, Deduct	-0.38	
32 84 23 00-0514 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.28	2.16
For >1,000, Deduct	-0.51	
32 84 23 00-0515 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.01	2.71
For >1,000, Deduct	-0.65	
32 84 23 00-0516 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.87	3.16
For >1,000, Deduct	-0.84	
32 84 23 00-0517 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	19.81	4.56
For >1,000, Deduct	-0.99	
32 84 23 00-0518 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	25.68	5.70
For >1,000, Deduct	-1.28	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0519	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	37.99 -1.90	7.11
32 84 23 00-0520			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0456)</small>		
32 84 23 00-0521	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	6.98 -0.35	1.42
32 84 23 00-0522	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.92 -0.40	1.71
32 84 23 00-0523	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.53 -0.53	2.16
32 84 23 00-0524	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	13.26 -0.66	2.71
32 84 23 00-0525	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.12 -0.86	3.16
32 84 23 00-0526	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	20.08 -1.00	4.56
32 84 23 00-0527	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	25.94 -1.30	5.70
32 84 23 00-0528	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.25 -1.91	7.11
32 84 23 00-0529			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0456)</small>		
32 84 23 00-0530	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	7.24 -0.36	1.42
32 84 23 00-0531	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	8.18 -0.41	1.71
32 84 23 00-0532	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.79 -0.54	2.16
32 84 23 00-0533	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	13.52 -0.68	2.71
32 84 23 00-0534	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.38 -0.87	3.16
32 84 23 00-0535	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	20.34 -1.02	4.56
32 84 23 00-0536	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	26.20 -1.31	5.70
32 84 23 00-0537	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	38.50 -1.93	7.11
32 84 23 00-0538			Irrigation Riser Piping With Fittings <small>(32 84 23 00-0426)</small>		
32 84 23 00-0539	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	20.63	3.42
32 84 23 00-0540	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.35	4.27
32 84 23 00-0541	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.14	3.99
32 84 23 00-0542	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	24.27	4.98
32 84 23 00-0543	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	44.27	5.98
32 84 23 00-0544	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	47.31	7.48
32 84 23 00-0545	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	52.16	7.69
32 84 23 00-0546	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	56.06	9.61
32 84 23 00-0547	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	60.05	9.40
32 84 23 00-0548	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	64.82	11.75
32 84 23 00-0549			Irrigation Crossover Piping With Fittings <small>(32 84 23 00-0426)</small> Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0593 for irrigation wiring.		
32 84 23 00-0550			Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench <small>(32 84 23 00-0549)</small>		
32 84 23 00-0551	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... <i>For >1,000, Deduct</i>	51.99 -2.60	



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0552 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation <i>For >1,000, Deduct</i>	75.01 -3.75	
32 84 23 00-0553 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... <i>For >1,000, Deduct</i>	105.16 -5.26	
32 84 23 00-0554 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... <i>For >1,000, Deduct</i>	140.22 -7.01	
32 84 23 00-0555 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench <small>(32 84 23 00-0549)</small>		
32 84 23 00-0556 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	52.78 -2.64	
32 84 23 00-0557 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	75.88 -3.79	
32 84 23 00-0558 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	106.12 -5.31	
32 84 23 00-0559 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	141.25 -7.06	
32 84 23 00-0560 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench <small>(32 84 23 00-0549)</small>		
32 84 23 00-0561 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation <i>For >1,000, Deduct</i>	53.55 -2.68	
32 84 23 00-0562 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	76.75 -3.84	
32 84 23 00-0563 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	107.07 -5.35	
32 84 23 00-0564 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... <i>For >1,000, Deduct</i>	142.29 -7.11	
32 84 23 00-0565 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore <small>(32 84 23 00-0549)</small>		
32 84 23 00-0566 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	110.17 -5.51	
32 84 23 00-0567 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	144.96 -7.25	
32 84 23 00-0568 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	180.91 -9.05	
32 84 23 00-0569 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	221.76 -11.09	
32 84 23 00-0570 Below Ground Cam Adapter Assembly <small>(32 84 23 00-0426)</small> Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0571 EA Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	758.10	
32 84 23 00-0572 Above Ground Cam Adapter Assembly <small>(32 84 23 00-0426)</small> Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0573 EA Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	469.38	
32 84 23 00-0574 Thrust Block <small>(32 84 23 00-0426)</small>		
32 84 23 00-0575 EA Thrust Block For 1-1/2" Pipe Size And Smaller	38.62	
32 84 23 00-0576 EA Thrust Block For 2" Pipe	66.31	
32 84 23 00-0577 EA Thrust Block For 3" And 4" Pipe	94.02	
32 84 23 00-0578 EA Thrust Block For 6" Pipe	150.01	
32 84 23 00-0579 EA Thrust Block For 8" Pipe	213.05	
32 84 23 00-0580 Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0581 EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	72.43	22.66
32 84 23 00-0582 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	82.54	25.31
32 84 23 00-0583 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	113.29	25.31
32 84 23 00-0584 EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	48.04	29.54
32 84 23 00-0585 EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	64.19	39.41
32 84 23 00-0586 EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	80.90	48.33

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0587 EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	68.15	30.00
32 84 23 00-0588 EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	90.11	39.80
32 84 23 00-0589 EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	110.98	48.81
32 84 23 00-0590 EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	38.40	18.37
32 84 23 00-0591 EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	51.32	24.50
32 84 23 00-0592 EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	61.04	30.37
32 84 23 00-0593 Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0594 18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0595 CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	54.67	17.09
32 84 23 00-0596 CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	71.77	19.93
32 84 23 00-0597 CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	82.59	22.77
32 84 23 00-0598 CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	94.55	25.62
32 84 23 00-0599 CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	107.64	28.47
32 84 23 00-0600 CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	128.72	31.32
32 84 23 00-0601 CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	148.94	34.16
32 84 23 00-0602 CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	161.84	37.01
32 84 23 00-0603 CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	177.72	39.86
32 84 23 00-0604 CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	195.97	42.71
32 84 23 00-0605 CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	202.78	45.56
32 84 23 00-0606 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	210.76	48.40
32 84 23 00-0607 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	222.34	51.25
32 84 23 00-0608 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0609 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	57.70	17.09
32 84 23 00-0610 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0611 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	57.71	17.09
32 84 23 00-0612 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0613 CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	77.74	17.09
32 84 23 00-0614 10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0615 CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	103.13	17.09
32 84 23 00-0616 Root Watering Systems (32 84 23) Note: Includes swing assembly.		
32 84 23 00-0617 EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)..... For Root Watering Sand Sock, Add 5.80	118.91	22.77
32 84 23 00-0618 EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	129.08	22.77
For Root Watering Sand Sock, Add 5.80		
32 84 23 00-0619 EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)..... For Root Watering Sand Sock, Add 5.80	118.91	22.77
32 84 23 00-0620 EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	129.08	22.77
For Root Watering Sand Sock, Add 5.80		
32 84 23 00-0621 EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	129.08	22.77
For Root Watering Sand Sock, Add 5.80		
32 84 23 00-0622 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)..... For Root Watering Sand Sock, Add 5.24	103.12	19.93
32 84 23 00-0623 EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	112.88	19.93
For Root Watering Sand Sock, Add 5.24		
32 84 23 00-0624 EA 0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)..... For Root Watering Sand Sock, Add 5.24	103.12	19.93
32 84 23 00-0625 EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	112.88	19.93
For Root Watering Sand Sock, Add 5.24		
32 84 23 00-0626 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)..... For Root Watering Sand Sock, Add 4.67	67.81	17.09
32 84 23 00-0627 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)..... For Root Watering Sand Sock, Add 4.67	77.11	17.09



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 90 Planting ⁽³²⁾

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar or cultivated varieties. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation ^(32 90)

32 91 13 Soil Preparation ^(32 91)

32 91 13 16 Mulching ^(32 91 13)

32 91 13 16-001 Mulch ^(32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 91 13 16-0002	CY Pine Bark Nugget Mulch	108.52
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.10
	For >20 To 50, Deduct	-13.65
	For >50, Deduct	-19.08
32 91 13 16-0003	CY Hardwood Bark Nugget Mulch	107.12
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.03
	For >20 To 50, Deduct	-13.55
	For >50, Deduct	-18.90
32 91 13 16-0004	CY Pine Wood Chip Mulch	104.31
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-8.89
	For >20 To 50, Deduct	-13.33
	For >50, Deduct	-18.55
32 91 13 16-0005	CY Hardwood Chip Mulch	109.92
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.17
	For >20 To 50, Deduct	-13.76
	For >50, Deduct	-19.25
32 91 13 16-0006	CY Shredded Hardwood Mulch	109.92
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.17
	For >20 To 50, Deduct	-13.76
	For >50, Deduct	-19.25
32 91 13 16-0007	CY Shredded Pine Mulch	97.31
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-8.54
	For >20 To 50, Deduct	-12.81
	For >50, Deduct	-17.67
32 91 13 16-0008	CY Shredded Cedar Mulch	124.63
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.91
	For >20 To 50, Deduct	-14.86
	For >50, Deduct	-21.09
32 91 13 16-0009	CY Shredded Cypress Mulch	122.53
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-9.80
	For >20 To 50, Deduct	-14.70
	For >50, Deduct	-20.83
32 91 13 16-0010	CY Shredded Redwood Mulch	128.14
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-10.08
	For >20 To 50, Deduct	-15.12
	For >50, Deduct	-21.53
32 91 13 16-0011	CY Pea Gravel Mulch	130.05
	For Work On Slopes >2.5:1, Add	14.70
	For >5 To 20, Deduct	-10.18
	For >20 To 50, Deduct	-15.26
	For >50, Deduct	-21.77
32 91 13 16-0012	CY Chunk Recycled Tire Mulch	191.76
	For Work On Slopes >2.5:1, Add	18.73
	For >5 To 20, Deduct	-14.27
	For >20 To 50, Deduct	-21.41
	For >50, Deduct	-30.99
32 91 13 16-0013	CY Chunk Colored Recycled Tire Mulch	288.47
	For Work On Slopes >2.5:1, Add	18.73
	For >5 To 20, Deduct	-19.11
	For >20 To 50, Deduct	-28.66
	For >50, Deduct	-43.08
32 91 13 16-0014	CY Shredded Recycled Tire Mulch	289.87
	For Work On Slopes >2.5:1, Add	18.73
	For >5 To 20, Deduct	-19.18
	For >20 To 50, Deduct	-28.76
	For >50, Deduct	-43.26
32 91 13 16-0015	CY Shredded Colored Recycled Tire Mulch	483.28
	For Work On Slopes >2.5:1, Add	18.73
	For >5 To 20, Deduct	-28.85
	For >20 To 50, Deduct	-43.27
	For >50, Deduct	-67.43

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 91 13 16-0016	EA	Pine Straw Mulch Bale.....	8.95	
		Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
		For Work On Slopes >2.5:1, Add	0.81	
		For >100 To 250, Deduct	-0.65	
		For >250 To 500, Deduct	-0.85	
		For >500, Deduct	-1.10	
32 91 13 16-0017	EA	Wheat Straw Mulch Bale.....	8.80	
		Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
		For Work On Slopes >2.5:1, Add	0.61	
		For >100 To 250, Deduct	-0.59	
		For >250 To 500, Deduct	-0.74	
		For >500, Deduct	-1.03	
32 91 13 16-0018	CY	Stone/Gravel Mulch, Marble Chips	303.47	
		For Work On Slopes >2.5:1, Add	14.70	
		For >5 To 20, Deduct	-18.85	
		For >20 To 50, Deduct	-28.27	
		For >50, Deduct	-43.44	
32 91 13 16-0019	CY	Stone Mulch, Decomposed Granite Chips	127.17	
		For Work On Slopes >2.5:1, Add	14.70	
		For >5 To 20, Deduct	-10.03	
		For >20 To 50, Deduct	-15.05	
		For >50, Deduct	-21.41	
32 91 13 16-0020		Compost Soil Amendment (AgriService) <small>(32 91 13 16)</small>		
		Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 91 13 16-0021	CY	Humic Compost (OIM).....	93.90	
		Note: (Agri Service or Equal)		
		For Work On Slopes >2.5:1, Add	14.70	
		For >100 To 1,000, Deduct	-15.72	
		For >1,000, Deduct	-24.09	
32 91 13 26		Planting Beds <small>(32 91 13)</small>		
		Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001		Plant Bed Preparation <small>(32 91 13 26)</small>		
		Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002	SF	Up To 8" Deep, Prepare And Mix Plant Bed, By Machine	1.16	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	0.23	
32 91 13 26-0003	SF	>8" To 13" Deep, Prepare And Mix Plant Bed, By Machine.....	1.33	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	0.27	
32 91 13 26-0004	SF	>13" To 18" Deep, Prepare And Mix Plant Bed, By Machine.....	1.57	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	0.31	
32 91 13 26-0005	SF	Up To 8" Deep, Prepare And Mix Plant Bed By Hand	5.21	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	1.04	
32 91 13 26-0006	SF	>8" To 13" Deep, Prepare And Mix Plant Bed By Hand.....	5.98	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	1.20	
32 91 13 26-0007	SF	>13" To 18" Deep, Prepare And Mix Plant Bed By Hand.....	7.03	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	1.41	
32 91 13 26-0008		Plant Bed Preparation With Humic Compost <small>(32 91 13 26)</small>		
32 91 13 26-0009	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	1.27	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		For Work On Slopes >2.5:1, Add	0.24	
		For >1,000 To 5,000, Deduct	-0.18	
		For >5,000 To 10,000, Deduct	-0.30	
		For >10,000 To 20,000, Deduct	-0.61	
		For >20,000, Deduct	-0.85	
32 91 13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.58	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		For Work On Slopes >2.5:1, Add	0.29	
		For >1,000 To 5,000, Deduct	-0.22	
		For >5,000 To 10,000, Deduct	-0.37	
		For >10,000 To 20,000, Deduct	-0.74	
		For >20,000, Deduct	-1.03	



		Exterior Improvements	32
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0011 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.88	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.34	
For >1,000 To 5,000, Deduct	-0.26	
For >5,000 To 10,000, Deduct	-0.43	
For >10,000 To 20,000, Deduct	-0.86	
For >20,000, Deduct	-1.21	
32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013 CY Excavate Planting Pit By Hand, Sandy Soil	90.00	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	18.00	
32 91 13 26-0014 CY Excavate Planting Pit By Hand, Heavy Soil	180.00	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	36.00	
32 91 13 26-0015 CY Excavate Planting Pit By Machine, Sandy Soil	14.55	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	2.91	
32 91 13 26-0016 CY Excavate Planting Pit By Machine, Heavy Soil	18.94	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	3.79	
32 91 13 26-0017 CY Backfill Planting Pit By Hand With Topsoil From Stockpile	79.98	
For Work On Slopes >2.5:1, Add	16.00	
32 91 13 26-0018 CY Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	134.41	
For Work On Slopes >2.5:1, Add	14.59	
32 91 13 26-0019 CY Backfill Planting Pit By Machine, With Topsoil From Stockpile	7.84	
For Work On Slopes >2.5:1, Add	1.57	
32 91 13 26-0020 CY Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix	80.91	
For Work On Slopes >2.5:1, Add	3.89	
32 91 13 26-0021 Weed Barrier (32 91 13 26)		
32 91 13 26-0022 SY Up To 3 Oz/SY Non-Woven, Polypropylene Weed Barrier	2.39	
For Work On Slopes >2.5:1, Add	0.14	
32 91 13 26-0023 SY 4 Oz/SY Woven, Polypropylene Weed Barrier.....	3.24	
For Work On Slopes >2.5:1, Add	0.14	
32 91 13 26-0024 SY 5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier	3.62	
For Work On Slopes >2.5:1, Add	0.14	
32 91 13 33 Soil Conditioners (32 91 13)		
32 91 13 33-0001 Spread Soil Conditioners (32 91 13 33)		
32 91 13 33-0002 SY Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.43	
32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	40.84	
32 91 13 33-0004 MSF Fertilizer, 20 LB/MSF, Push Spreader	7.40	
32 91 13 33-0005 MSF Fertilizer, 20 LB/MSF, Tractor Spread	3.10	
32 91 13 33-0006 MSF Fertilizer, 20 LB/MSF, Truck Spread.....	5.56	
32 91 13 33-0007 SY Pelletized Lime, 1 LB/SY, Push Spreader	0.10	
32 91 13 33-0008 MSF Pelitized Lime, 110 LB/MSF, Tractor Spreader.....	7.80	
32 91 13 33-0009 SY Perlite, 1" Deep, Push Spreader.....	3.71	
32 91 13 33-0010 MSF Perlite, 1" Deep, Tractor Spreader.....	385.54	
32 91 13 33-0011 SY Vermiculite, Push Spreader	3.44	
32 91 13 33-0012 MSF Vermiculite, Tractor Spreader.....	376.61	
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader.....	0.22	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	20.44	
32 91 13 36 Lawn Bed Preparation (32 91 13)		
32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)		
32 91 13 36-0002 MSF Rake Topsoil With Machine	90.50	
32 91 13 36-0003 MSF Rake Topsoil By Hand.....	71.99	
32 91 13 36-0004 MSF Screen Loam By Hand.....	47.99	
32 91 13 36-0005 SY Roll Topsoil With Machine	1.16	
32 91 13 36-0006 SY Roll Topsoil By Hand	3.22	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine	10.71	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand	33.09	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders	56.00	
For >45 to 225, Deduct	-39.20	
For >225, Deduct	-50.40	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders.....	93.35	
For >45 to 225, Deduct	-65.35	
For >225, Deduct	-84.02	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	5.04	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor	10.22	
For Work On Slopes >2.5:1, Add	2.04	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller	0.77	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller	0.92	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller	1.15	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	1.27	
32 91 13 36-0017 Sod Removal (32 91 13 36)		
32 91 13 36-0018 SY Removal Of Sod By Hand.....	6.07	
For Work On Slopes >2.5:1, Add	1.21	
32 91 13 36-0019 SY Removal Of Sod With Machine.....	0.68	
For Work On Slopes >2.5:1, Add	0.14	
32 91 13 36-0020 SY Pile Sod By Hand.....	3.60	
For Work On Slopes >2.5:1, Add	0.72	
32 91 13 36-0021 SY Pile Sod With Machine.....	1.27	
For Work On Slopes >2.5:1, Add	0.25	
32 91 19 Landscape Grading (32 91)		
32 91 19 13 Topsoil Placement and Grading (32 91 19)		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site.....	5.31	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site.....	5.25	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	11.49	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material.....	7.67	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile.....	8.66	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile.....	68.70	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep.....	4.54	
For Unscreened, Deduct	-0.64	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep.....	8.75	
For Unscreened, Deduct	-1.29	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep.....	12.70	
For Unscreened, Deduct	-1.93	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep.....	18.42	
For Unscreened, Deduct	-2.90	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep.....	24.14	
For Unscreened, Deduct	-3.86	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep.....	67.14	
For Unscreened, Deduct	-11.59	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	68.10	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	47.66	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	27.97	
32 92 Turf and Grasses (32 90)		
32 92 16 Plugging (32 92)		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)		
Note: Includes fine grade and soil preparation.		
32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center.....	232.49	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	31.46	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center.....	23.27	
32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center.....	178.36	
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....	24.66	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center.....	17.44	
32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center.....	150.26	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....	16.71	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center.....	11.16	



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 92 19 Seeding (32 92)

32 92 19 13 Mechanical Seeding (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)

Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 13-0002	MSF	Common Bluegrass, Tractor Spreader Note: 4 LB/MSF spread rate.	47.03
32 92 19 13-0003	MSF	Tall Fescue, Tractor Spreader Note: 5.5 LB/MSF spread rate.	38.55
32 92 19 13-0004	MSF	Rye, Tractor Spreader Note: 10 LB/MSF spread rate.	39.29
32 92 19 13-0005	MSF	Shade Mix, Tractor Spreader Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	43.07
32 92 19 13-0006	MSF	Turf Mix, Tractor Spreader Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	45.77
32 92 19 13-0007	MSF	Slope Mix, Tractor Spreader Note: 6 LB/MSF spread rate.	42.16
32 92 19 13-0008	MSF	Utility Mix, Tractor Spreader Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	37.66
32 92 19 13-0009	MSF	Wild Flower Mix, Tractor Spreader Note: 0.10 LB/MSF spread rate.	29.17
32 92 19 13-0010	MSF	Crown Vetch Mix, Tractor Spreader Note: 4 LB/MSF spread rate.	96.33
32 92 19 13-0011	MSF	Athletic Mix, Tractor Spreader Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	56.61
32 92 19 13-0012	MSF	White Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	29.07
32 92 19 13-0013	MSF	Ladino Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	32.69

32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)

32 92 19 13-0015	MSF	Common Bluegrass, Hydro Or Air Seeding Note: 4 LB/MSF spread rate.	95.62
		<i>For Spot Areas Up To 1, Add</i>	101.41
		<i>For >1 To 4, Add</i>	65.06
		<i>For >4 To 7.5, Add</i>	44.01
		<i>For >7.5 To 10, Add</i>	22.01
		<i>For >45, Deduct</i>	-7.65
		<i>For Tackifier, Add</i>	1.44
32 92 19 13-0016	MSF	Tall Fescue, Hydro Or Air Seeding Note: 5.5 LB/MSF spread rate.	101.43
		<i>For Spot Areas Up To 1, Add</i>	103.73
		<i>For >1 To 4, Add</i>	66.22
		<i>For >4 To 7.5, Add</i>	44.60
		<i>For >7.5 To 10, Add</i>	22.30
		<i>For >45, Deduct</i>	-7.94
		<i>For Tackifier, Add</i>	1.44
32 92 19 13-0017	MSF	Rye, Hydro Or Air Spread Note: 10 LB/MSF spread rate.	95.87
		<i>For Spot Areas Up To 1, Add</i>	101.51
		<i>For >1 To 4, Add</i>	65.11
		<i>For >4 To 7.5, Add</i>	44.04
		<i>For >7.5 To 10, Add</i>	22.02
		<i>For >45, Deduct</i>	-7.66
		<i>For Tackifier, Add</i>	1.44
32 92 19 13-0018	MSF	Shade Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	95.62
		<i>For Spot Areas Up To 1, Add</i>	101.41
		<i>For >1 To 4, Add</i>	65.06
		<i>For >4 To 7.5, Add</i>	44.01
		<i>For >7.5 To 10, Add</i>	22.01
		<i>For >45, Deduct</i>	-7.65
		<i>For Tackifier, Add</i>	1.44
32 92 19 13-0019	MSF	Turf Mix, Hydro Or Air Seeding Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	101.43
		<i>For Spot Areas Up To 1, Add</i>	103.73
		<i>For >1 To 4, Add</i>	66.22
		<i>For >4 To 7.5, Add</i>	44.60
		<i>For >7.5 To 10, Add</i>	22.30
		<i>For >45, Deduct</i>	-7.94
		<i>For Tackifier, Add</i>	1.44
32 92 19 13-0020	MSF	Slope Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate.	98.94
		<i>For Spot Areas Up To 1, Add</i>	102.74
		<i>For >1 To 4, Add</i>	65.72
		<i>For >4 To 7.5, Add</i>	44.35
		<i>For >7.5 To 10, Add</i>	22.17
		<i>For >45, Deduct</i>	-7.82
		<i>For Tackifier, Add</i>	1.44

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	96.93	
			<i>For Spot Areas Up To 1, Add</i>	101.93	
			<i>For >1 To 4, Add</i>	65.32	
			<i>For >4 To 7.5, Add</i>	44.15	
			<i>For >7.5 To 10, Add</i>	22.07	
			<i>For >45, Deduct</i>	-7.72	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding Note: 0.10 LB/MSF spread rate.	90.46	
			<i>For Spot Areas Up To 1, Add</i>	99.35	
			<i>For >1 To 4, Add</i>	64.03	
			<i>For >4 To 7.5, Add</i>	43.50	
			<i>For >7.5 To 10, Add</i>	21.75	
			<i>For >45, Deduct</i>	-7.39	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding Note: 4 LB/MSF spread rate.	148.77	
			<i>For Spot Areas Up To 1, Add</i>	122.67	
			<i>For >1 To 4, Add</i>	75.69	
			<i>For >4 To 7.5, Add</i>	49.33	
			<i>For >7.5 To 10, Add</i>	24.66	
			<i>For >45, Deduct</i>	-10.31	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0024	MSF		Athletic Mix, Hydro Or Air Seeding Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	130.52	
			<i>For Spot Areas Up To 1, Add</i>	115.37	
			<i>For >1 To 4, Add</i>	72.04	
			<i>For >4 To 7.5, Add</i>	47.50	
			<i>For >7.5 To 10, Add</i>	23.75	
			<i>For >45, Deduct</i>	-9.40	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0025	MSF		White Clover Mix, Hydro Or Air Seeding Note: 7 LB/MSF spread rate.	82.58	
			<i>For Spot Areas Up To 1, Add</i>	96.19	
			<i>For >1 To 4, Add</i>	62.45	
			<i>For >4 To 7.5, Add</i>	42.71	
			<i>For >7.5 To 10, Add</i>	21.36	
			<i>For >45, Deduct</i>	-7.00	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding Note: 7 LB/MSF spread rate.	92.30	
			<i>For Spot Areas Up To 1, Add</i>	100.08	
			<i>For >1 To 4, Add</i>	64.40	
			<i>For >4 To 7.5, Add</i>	43.68	
			<i>For >7.5 To 10, Add</i>	21.84	
			<i>For >45, Deduct</i>	-7.49	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread Note: 4 LB/MSF spread rate.	97.28	
			<i>For Spot Areas Up To 1, Add</i>	102.07	
			<i>For >1 To 4, Add</i>	65.39	
			<i>For >4 To 7.5, Add</i>	44.18	
			<i>For >7.5 To 10, Add</i>	22.09	
			<i>For >45, Deduct</i>	-7.74	
			<i>For Tackifier, Add</i>	1.44	
32 92 19 13-0028	MSF		2,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	121.43	
			<i>For >45, Deduct</i>	-7.51	
32 92 19 13-0029	MSF		3,000 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	141.41	
			<i>For >45, Deduct</i>	-8.58	
32 92 19 13-0030	MSF		3,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	161.48	
			<i>For >45, Deduct</i>	-9.66	
32 92 19 13-0031	MSF		4,000 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	181.57	
			<i>For >45, Deduct</i>	-10.74	
32 92 19 13-0032	MSF		4,500 LB/Acre, High Performance - Flexible Growth Medium Note: Applied with seed. Excludes seed.	201.78	
			<i>For >45, Deduct</i>	-11.83	

32 92 19 19 Seeding by Hand (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 19-0001 Push Spreader Or Hand Seeding (32 92 19 19)

Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand Note: 4 LB/MSF spread rate.	112.90	
			<i>For >5 To 20, Deduct</i>	-7.89	
			<i>For >20 To 45, Deduct</i>	-15.22	
			<i>For >45, Deduct</i>	-24.79	



		Exterior Improvements	32
		Planting	32 90
		Turf and Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0003 MSF Tall Fescue, Push Spreader Or Hand.....	104.42	
Note: 5.5 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.47	
For >20 To 45, Deduct	-14.58	
For >45, Deduct	-23.94	
32 92 19 19-0004 MSF Rye, Push Spreader Or Hand.....	105.16	
Note: 10 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.51	
For >20 To 45, Deduct	-14.64	
For >45, Deduct	-24.01	
32 92 19 19-0005 MSF Shade Mix, Push Spreader Or Hand	108.94	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
For >5 To 20, Deduct	-7.70	
For >20 To 45, Deduct	-14.92	
For >45, Deduct	-24.39	
32 92 19 19-0006 MSF Turf Mix, Push Spreader Or Hand	111.64	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
For >5 To 20, Deduct	-7.83	
For >20 To 45, Deduct	-15.12	
For >45, Deduct	-24.66	
32 92 19 19-0007 MSF Slope Mix, Push Spreader Or Hand.....	108.03	
Note: 6 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.65	
For >20 To 45, Deduct	-14.85	
For >45, Deduct	-24.30	
32 92 19 19-0008 MSF Utility Mix, Push Spreader Or Hand	103.53	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
For >5 To 20, Deduct	-7.43	
For >20 To 45, Deduct	-14.51	
For >45, Deduct	-23.85	
32 92 19 19-0009 MSF Wild Flower Mix, Push Spreader Or Hand	95.04	
Note: 0.10 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.00	
For >20 To 45, Deduct	-13.88	
For >45, Deduct	-23.00	
32 92 19 19-0010 MSF Crown Vetch Mix, Push Spreader Or Hand	162.20	
Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-10.36	
For >20 To 45, Deduct	-18.91	
For >45, Deduct	-29.72	
32 92 19 19-0011 MSF Athletic Mix, Push Spreader Or Hand	122.48	
Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For >5 To 20, Deduct	-8.37	
For >20 To 45, Deduct	-15.93	
For >45, Deduct	-25.75	
32 92 19 19-0012 MSF White Clover Mix, Push Spreader Or Hand	94.94	
Note: 7 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.00	
For >20 To 45, Deduct	-13.87	
For >45, Deduct	-22.99	
32 92 19 19-0013 MSF Ladino Clover Mix, Push Spreader Or Hand.....	98.56	
Note: 7 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.18	
For >20 To 45, Deduct	-14.14	
For >45, Deduct	-23.35	
32 92 19 19-0014 MSF 100% Kentucky Bluegrass, Push Spreader Or Hand.....	114.48	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.97	
For >20 To 45, Deduct	-15.33	
For >45, Deduct	-24.95	
32 92 19 19-0015 MSF 70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand	109.91	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.75	
For >20 To 45, Deduct	-14.99	
For >45, Deduct	-24.49	
32 92 19 19-0016 MSF 50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand	106.59	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.58	
For >20 To 45, Deduct	-14.74	
For >45, Deduct	-24.16	
32 92 19 19-0017 MSF 50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand.....	113.23	
Note: 4.4 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.91	
For >20 To 45, Deduct	-15.24	
For >45, Deduct	-24.82	
32 92 19 19-0018 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand.....	108.25	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.66	
For >20 To 45, Deduct	-14.87	
For >45, Deduct	-24.32	
32 92 19 19-0019 MSF 40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand	111.64	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.83	
For >20 To 45, Deduct	-15.12	
For >45, Deduct	-24.66	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 92 23 Sodding** (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001 Bermuda Sod (32 92 23)

32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,563.99
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground	1,319.82
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground	1,123.73
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground	.984.33
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,919.05
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,620.41
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,331.11
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,160.69

32 92 23 00-0010 Zoysia Sod (32 92 23)

32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	2,266.59
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground	1,845.01
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground	1,561.39
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground	1,334.45
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,619.30
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,145.60
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,768.77
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,510.81

32 92 23 00-0019 Tall Fescue Sod (32 92 23)

32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,361.91
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>161.74</i>
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground	1,916.49
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>121.84</i>
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,620.96
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>101.89</i>
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,382.11
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>81.94</i>
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,714.62
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>161.74</i>
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,217.08
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>121.84</i>
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,828.34
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>101.89</i>
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,558.47
		<i>For Hybrid Fescue "Marathon", Add</i>	<i>81.94</i>

32 92 23 00-0028 Centipede Sod (32 92 23)

32 92 23 00-0029	MSF	Up To 1,000 SF, Centipede Sod, Installed On Level Ground	1,995.90
32 92 23 00-0030	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	1,641.99
32 92 23 00-0031	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	1,392.21
32 92 23 00-0032	MSF	>8,000 SF, Centipede Sod, Installed On Level Ground	1,199.10
32 92 23 00-0033	MSF	Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	2,348.61
32 92 23 00-0034	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,942.58
32 92 23 00-0035	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,599.59
32 92 23 00-0036	MSF	>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,375.46

32 92 23 00-0037 Kentucky Blue Grass Sod (32 92 23)

32 92 23 00-0038	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,900.44
32 92 23 00-0039	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,570.39
32 92 23 00-0040	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,332.54
32 92 23 00-0041	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,151.38
32 92 23 00-0042	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,253.15
32 92 23 00-0043	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,870.98
32 92 23 00-0044	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,539.92
32 92 23 00-0045	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,327.74

32 92 23 00-0046 Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)

32 92 23 00-0047	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,757.26
32 92 23 00-0048	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,463.00
32 92 23 00-0049	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,243.05
32 92 23 00-0050	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,079.78
32 92 23 00-0051	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	2,109.97
32 92 23 00-0052	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,763.59
32 92 23 00-0053	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,450.43
32 92 23 00-0054	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,256.14

32 92 23 00-0055 GN-1 Sod (32 92 23)



		Exterior Improvements	32
		Planting	32 90
		Turf and Grasses	32 92

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 92 23 00-0056	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Level Ground.....	2,252.90	
32 92 23 00-0057	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground.....	1,834.74	
32 92 23 00-0058	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,552.83	
32 92 23 00-0059	MSF	>8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,327.60	
32 92 23 00-0060	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,605.61	
32 92 23 00-0061	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,135.33	
32 92 23 00-0062	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,760.21	
32 92 23 00-0063	MSF	>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,503.96	

32 92 23 00-0064 Tifgreen Bermuda Sod (32 92 23)

32 92 23 00-0065	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	2,361.21	
32 92 23 00-0066	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,915.97	
32 92 23 00-0067	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,620.52	
32 92 23 00-0068	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,381.76	
32 92 23 00-0069	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,713.92	
32 92 23 00-0070	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,216.56	
32 92 23 00-0071	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,827.90	
32 92 23 00-0072	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,558.12	

32 93 Plants (32 93)

32 93 13 Ground Covers (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses (32 93 13)

32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass.....	34.95	
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass.....	64.60	
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass.....	117.41	
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass.....	213.69	
32 93 13 00-0006	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass.....	26.75	
32 93 13 00-0007	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass.....	35.57	
32 93 13 00-0008	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass.....	38.07	
32 93 13 00-0009	EA	1 Quart, Koeleria glauca - Blue Hair Grass.....	26.68	
32 93 13 00-0010	EA	1 Gallon, Koeleria glauca - Blue Hair Grass.....	35.57	
32 93 13 00-0011	EA	3 Gallon, Koeleria glauca - Blue Hair Grass.....	86.06	
32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	33.77	
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	43.77	
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	83.68	
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	31.35	
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	49.28	
32 93 13 00-0017	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	84.34	
32 93 13 00-0018	EA	1 Quart, Pennisetum setaceum - Fountain Grass.....	29.18	
32 93 13 00-0019	EA	1 Gallon, Pennisetum setaceum - Fountain Grass.....	74.23	
32 93 13 00-0020	EA	3 Gallon, Pennisetum setaceum - Fountain Grass.....	97.86	
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass.....	92.38	
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass.....	103.78	
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass.....	171.21	
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass.....	50.16	
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass.....	75.08	
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass.....	38.29	
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass.....	53.36	

32 93 13 00-0028 Ground Covers (32 93 13)

32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant.....	12.35	
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant.....	33.30	
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant.....	110.11	
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	10.54	
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	29.33	
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	10.54	
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	27.40	
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily.....	9.24	
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily.....	22.77	
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	17.17	
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	45.10	
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN.....	12.87	
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN.....	189.84	
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass.....	17.17	
32 93 13 00-0043	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine.....	9.33	
32 93 13 00-0044	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine.....	23.38	
32 93 13 00-0045	EA	1 Gallon Westringia Fruticosa - Coast Rosemary.....	9.24	
32 93 13 00-0046	EA	5 Gallon Westringia Fruticosa - Coast Rosemary.....	22.77	
32 93 13 00-0047	EA	15 Gallon Westringia Fruticosa - Coast Rosemary.....	93.46	
32 93 13 00-0048	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	42.82	
32 93 13 00-0049	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	55.74	
32 93 13 00-0050	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	70.55	
32 93 13 00-0051	EA	1 Quart Waldsteinia ternata - Barren Strawberry.....	12.12	
32 93 13 00-0052	EA	1 Gallon Waldsteinia ternata - Barren Strawberry.....	29.08	
32 93 13 00-0053	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	39.58	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 93 13 00-0054	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	75.13	
32 93 13 00-0055	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	132.48	
32 93 13 00-0056	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	13.55	
32 93 13 00-0057	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	25.04	
32 93 13 00-0058	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	88.05	
32 93 13 00-0059	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	32.87	
32 93 13 00-0060	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy.....	16.16	
32 93 13 00-0061	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	36.84	
32 93 13 00-0062	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	100.81	
32 93 13 00-0063	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea.....	42.37	
32 93 13 00-0064	EA	1 Quart Iberis sempervirens - Candytuft.....	12.12	
32 93 13 00-0065	EA	1 Gallon Iberis sempervirens - Candytuft.....	29.08	
32 93 13 00-0066	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	34.90	
32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	126.02	
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle.....	7.27	
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle.....	12.12	
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle.....	29.08	
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle.....	125.21	
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	29.08	
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	126.02	
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	37.97	
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	84.02	
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	126.02	
32 93 13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties.....	41.74	
32 93 13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties.....	77.20	
32 93 13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	52.51	
32 93 13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	98.55	
32 93 13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	161.56	
32 93 13 00-0082	EA	4" Pot Lantana camera - Common Lantana.....	7.27	
32 93 13 00-0083	EA	1 Gallon Lantana camera - Common Lantana.....	21.00	
32 93 13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	25.04	
32 93 13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	82.40	
32 93 13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny.....	12.12	
32 93 13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny.....	23.43	
32 93 13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft.....	21.00	
32 93 13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft.....	37.97	
32 93 13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft.....	79.97	
32 93 13 00-0091	EA	Bare Root Liriope spicata - Creeping Liriope.....	5.30	
32 93 13 00-0092	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	7.27	
32 93 13 00-0093	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	29.08	
32 93 13 00-0094	EA	2-1/4" Pot Securigera varia - Crown Vetch.....	4.85	
32 93 13 00-0095	EA	50 Plant Flat Securigera varia - Crown Vetch.....	163.99	
32 93 13 00-0096	EA	1 Quart Senecio cineraria - Dusty Miller.....	12.12	
32 93 13 00-0097	EA	1 Gallon Senecio cineraria - Dusty Miller.....	29.08	
32 93 13 00-0098	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	100.98	
32 93 13 00-0099	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	184.99	
32 93 13 00-0100	EA	1 Gallon Ilex cornuta - Dwarf Holly.....	21.94	
32 93 13 00-0101	EA	3 Gallon Ilex cornuta - Dwarf Holly.....	47.02	
32 93 13 00-0102	EA	3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	47.02	
32 93 13 00-0103	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant.....	15.67	
32 93 13 00-0104	EA	2" To 3" Pot Hedera helix - English Ivy.....	7.27	
32 93 13 00-0105	EA	12" To 15" Runners Hedera helix - English Ivy.....	12.12	
32 93 13 00-0106	EA	1 Gallon Hedera helix - English Ivy.....	29.08	
32 93 13 00-0107	EA	50 Plant Flat Hedera helix - English Ivy.....	168.02	
32 93 13 00-0108	EA	4" Pot Lavandula angustifolia - English Lavender.....	10.50	
32 93 13 00-0109	EA	1 Quart Lavandula angustifolia - English Lavender.....	20.20	
32 93 13 00-0110	EA	1 Gallon Lavandula angustifolia - English Lavender.....	33.12	
32 93 13 00-0111	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	31.50	
32 93 13 00-0112	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	63.01	
32 93 13 00-0113	EA	1 Quart Arundo donax - Giant Reed.....	38.78	
32 93 13 00-0114	EA	1 Gallon Arundo donax - Giant Reed.....	55.74	
32 93 13 00-0115	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	33.12	
32 93 13 00-0116	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	63.01	
32 93 13 00-0117	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	42.82	
32 93 13 00-0118	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	64.63	
32 93 13 00-0119	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	7.27	
32 93 13 00-0120	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	33.12	
32 93 13 00-0121	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	63.01	
32 93 13 00-0122	EA	1 Gallon Hardenbergia violacea - Happy Wanderer.....	29.08	
32 93 13 00-0123	EA	5 Gallon Hardenbergia violacea - Happy Wanderer.....	96.94	
32 93 13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors.....	37.88	
32 93 13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag.....	30.29	
32 93 13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	15.26	
32 93 13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	37.88	
32 93 13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	19.03	
32 93 13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	42.37	
32 93 13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine.....	23.43	
32 93 13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine.....	73.51	
32 93 13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear.....	12.12	
32 93 13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear.....	29.08	
32 93 13 00-0134	EA	1 Gallon Lantana spp. Various Colors.....	17.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93	13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana.....	11.28	
32 93	13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	23.43	
32 93	13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	84.01	
32 93	13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	17.14	
32 93	13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	21.63	
32 93	13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	34.59	
32 93	13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox.....	12.12	
32 93	13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox.....	29.08	
32 93	13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern.....	15.26	
32 93	13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass.....	7.27	
32 93	13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass.....	29.08	
32 93	13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass.....	67.05	
32 93	13 00-0147	EA	2' To 3' High Oregon Holly-Grape.....	33.57	
32 93	13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra.....	43.73	
32 93	13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle.....	4.04	
32 93	13 00-0150	EA	4" Pot Vinca minor - Periwinkle.....	12.12	
32 93	13 00-0151	EA	Bare Root Vinca minor - Periwinkle.....	4.04	
32 93	13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint.....	12.12	
32 93	13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint.....	25.04	
32 93	13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma.....	20.20	
32 93	13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma.....	73.51	
32 93	13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper.....	33.12	
32 93	13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper.....	71.09	
32 93	13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper.....	105.02	
32 93	13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	28.84	
32 93	13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	74.74	
32 93	13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	125.21	
32 93	13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoec Discolor "Dwarf".....	15.26	
32 93	13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	16.96	
32 93	13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	30.29	
32 93	13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	47.26	
32 93	13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily.....	18.80	
32 93	13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily.....	50.15	
32 93	13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort.....	12.12	
32 93	13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort.....	29.08	
32 93	13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort.....	75.13	
32 93	13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum.....	102.24	
32 93	13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper.....	44.43	
32 93	13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper.....	67.05	
32 93	13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper.....	161.56	
32 93	13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle.....	4.04	
32 93	13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle.....	12.12	
32 93	13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle.....	4.04	
32 93	13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge.....	21.81	
32 93	13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	30.29	
32 93	13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	47.26	
32 93	13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	33.12	
32 93	13 00-0182	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena.....	15.35	
32 93	13 00-0183	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena.....	23.43	
32 93	13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle.....	143.98	
32 93	13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	7.27	
32 93	13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	37.97	
32 93	13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine.....	29.08	
32 93	13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine.....	58.16	
32 93	13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine.....	100.98	
32 93	13 00-0190	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	23.43	
32 93	13 00-0191	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	79.97	
32 93	13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy.....	25.09	
32 93	13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy.....	6.62	
32 93	13 00-0194	EA	Flat Gazania 'Copper King'.....	20.57	
32 93	13 00-0195	EA	1 Gallon Gazania 'Copper King'.....	7.03	
32 93	13 00-0196	EA	Flat Myoporum parvifolium - Myoporum.....	25.09	
32 93	13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum.....	7.03	
32 93	13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum.....	20.07	
32 93	13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana.....	7.03	
32 93	13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana.....	20.07	
32 93	13 00-0201	EA	Flat Carpobrotus - Ice Plant.....	19.07	
32 93	13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant.....	8.03	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93	23 00-0002	EA	2 Quart Assorted Daylilies.....	23.43	
32 93	23 00-0003	EA	1 Gallon Assorted Daylilies.....	33.12	
32 93	23 00-0004	EA	2 Gallon Assorted Daylilies.....	54.93	
32 93	23 00-0005	EA	1 Quart Azure Penstemon.....	12.12	
32 93	23 00-0006	EA	1 Gallon Azure Penstemon.....	30.29	
32 93	23 00-0007	EA	1 Quart Balloon Flower.....	12.12	
32 93	23 00-0008	EA	1 Gallon Balloon Flower.....	30.29	
32 93	23 00-0009	EA	1 Quart Black-eyed Susan.....	12.12	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0010	EA	1 Gallon Black-eyed Susan.....	30.29	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan.....	39.18	
32 93 23 00-0012	EA	1 Quart Blackberry Lily.....	12.12	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily.....	30.29	
32 93 23 00-0014	EA	1 Quart Blank Flower.....	12.12	
32 93 23 00-0015	EA	1 Gallon Blank Flower.....	27.87	
32 93 23 00-0016	EA	2 Gallon Blank Flower.....	39.18	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather.....	12.12	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather.....	30.29	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium.....	20.60	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium.....	34.74	
32 93 23 00-0021	EA	1 Quart Blue Plumbago.....	12.12	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago.....	30.29	
32 93 23 00-0023	EA	1 Quart Blue Star.....	21.81	
32 93 23 00-0024	EA	1 Gallon Blue Star.....	34.74	
32 93 23 00-0025	EA	1 Quart Cardinal Flower.....	12.12	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower.....	30.29	
32 93 23 00-0027	EA	4" Pot Columbine.....	7.27	
32 93 23 00-0028	EA	1 Quart Columbine.....	12.12	
32 93 23 00-0029	EA	1 Gallon Columbine.....	30.29	
32 93 23 00-0030	EA	1 Quart Common Globeflower.....	12.12	
32 93 23 00-0031	EA	1 Gallon Common Globeflower.....	30.29	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink.....	12.12	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink.....	30.29	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'.....	43.63	
32 93 23 00-0035	EA	1 Quart Diploid.....	15.35	
32 93 23 00-0036	EA	1 Gallon Diploid.....	34.74	
32 93 23 00-0037	EA	3 Gallon Diploid.....	59.78	
32 93 23 00-0038	EA	4" Pot Dune Sunflower.....	17.30	
32 93 23 00-0039	EA	1 Quart Evans Begonia.....	21.81	
32 93 23 00-0040	EA	1 Gallon Evans Begonia.....	39.18	
32 93 23 00-0041	EA	1 Quart False Dragonhead.....	12.12	
32 93 23 00-0042	EA	1 Gallon False Dragonhead.....	30.29	
32 93 23 00-0043	EA	1 Quart False Spirea.....	12.12	
32 93 23 00-0044	EA	1 Gallon False Spirea.....	39.18	
32 93 23 00-0045	EA	3 Gallon False Spirea.....	54.12	
32 93 23 00-0046	EA	2 Quart False Sunflower.....	19.39	
32 93 23 00-0047	EA	1 Gallon False Sunflower.....	30.29	
32 93 23 00-0048	EA	2 Gallon False Sunflower.....	39.18	
32 93 23 00-0049	EA	1 Gallon Foxglove.....	27.87	
32 93 23 00-0050	EA	2 Gallon Foxglove.....	39.18	
32 93 23 00-0051	EA	3 Gallon Foxglove.....	56.55	
32 93 23 00-0052	EA	1 Gallon Francee Hostas.....	49.06	
32 93 23 00-0053	EA	1 Quart Garden Phlox.....	12.12	
32 93 23 00-0054	EA	1 Gallon Garden Phlox.....	30.29	
32 93 23 00-0055	EA	2 Quart Golden Groundsel.....	25.85	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel.....	52.11	
32 93 23 00-0057	EA	1 Quart Golden Star.....	12.12	
32 93 23 00-0058	EA	1 Gallon Golden Star.....	30.29	
32 93 23 00-0059	EA	1 Quart Goldenrod.....	12.12	
32 93 23 00-0060	EA	1 Gallon Goldenrod.....	30.29	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylillies.....	56.42	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy.....	7.27	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy.....	12.12	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy.....	30.29	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum.....	10.51	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum.....	17.37	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum.....	27.87	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony.....	43.22	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony.....	69.07	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony.....	90.89	
32 93 23 00-0071	EA	4" Pot Japanese Anemone.....	7.27	
32 93 23 00-0072	EA	1 Quart Japanese Anemone.....	21.81	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone.....	39.18	
32 93 23 00-0074	EA	2" Pot Japanese Spurge.....	4.31	
32 93 23 00-0075	EA	6" Pot Japanese Spurge.....	6.46	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge.....	27.83	
32 93 23 00-0077	EA	1 Quart Oriental Poppy.....	17.37	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy.....	34.74	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis.....	143.98	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris.....	23.83	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris.....	45.24	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells.....	45.87	
32 93 23 00-0083	EA	4" Pot Perennial Salvia.....	7.27	
32 93 23 00-0084	EA	1 Quart Perennial Salvia.....	12.12	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia.....	30.29	
32 93 23 00-0086	EA	1 Quart Pincushion Flower.....	12.12	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower.....	30.29	
32 93 23 00-0088	EA	2 Quart Plantain Lily.....	23.43	
32 93 23 00-0089	EA	1 Gallon Plantain Lily.....	33.12	
32 93 23 00-0090	EA	2 Gallon Plantain Lily.....	54.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0091 EA 3 Gallon Plantain Lily	103.81	
32 93 23 00-0092 EA 2 Quart Purple Coneflower	21.81	
32 93 23 00-0093 EA 1 Gallon Purple Coneflower	30.29	
32 93 23 00-0094 EA 2 Gallon Purple Coneflower	39.18	
32 93 23 00-0095 EA 1 Quart Purple Loosestrife	12.12	
32 93 23 00-0096 EA 1 Gallon Purple Loosestrife	30.29	
32 93 23 00-0097 EA 1 Quart Rose Mallow	23.83	
32 93 23 00-0098 EA 2 Gallon Rose Mallow	43.22	
32 93 23 00-0099 EA 3 Gallon Rose Mallow	73.92	
32 93 23 00-0100 EA 1 Gallon Autumn Joy Sedum	46.19	
32 93 23 00-0101 EA 1 Quart Siberian Iris	20.60	
32 93 23 00-0102 EA 2 Gallon Siberian Iris	39.18	
32 93 23 00-0103 EA 3 Gallon Siberian Iris	54.12	
32 93 23 00-0104 EA 1 Quart Speedwell	12.12	
32 93 23 00-0105 EA 1 Gallon Speedwell	30.29	
32 93 23 00-0106 EA 1 Quart Tetraploid	30.29	
32 93 23 00-0107 EA 1 Gallon Tetraploid	56.55	
32 93 23 00-0108 EA 3 Gallon Tetraploid	77.15	
32 93 23 00-0109 EA 1 Quart Threadleaf Coreopsis	12.12	
32 93 23 00-0110 EA 1 Gallon Threadleaf Coreopsis	30.29	
32 93 23 00-0111 EA 1 Quart Torch Lily	12.12	
32 93 23 00-0112 EA 1 Quart Bluebeard	21.81	
32 93 23 00-0113 EA 1 Gallon Bluebeard	32.32	
32 93 23 00-0114 EA 2 Gallon Bluebeard	47.26	
32 93 23 00-0115	Annuals <small>(32 93 23)</small>	
32 93 23 00-0116 EA 2-1/2" Pot Annual Flowers	5.62	
32 93 23 00-0117 EA 3" Pot Annual Flowers	7.61	
32 93 23 00-0118 EA 4" Pot Annual Flowers	16.26	
32 93 23 00-0119 EA 5-1/2" Pot Annual Flowers	21.62	
32 93 23 00-0120 EA 6" Pot Annual Flowers	42.81	
32 93 23 00-0121 EA 8" Pot Annual Flowers	71.34	
32 93 23 00-0122 EA 36 Plant Flat Annual Flowers	93.39	
32 93 23 00-0123 EA 48 Plant Flat Annual Flowers	105.93	
32 93 23 00-0124	Bulbs <small>(32 93 23)</small>	
32 93 23 00-0125 EA Top Size Allium giganteum - Giant Ornamental Onion	19.55	
32 93 23 00-0126 EA Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	1.13	
32 93 23 00-0127 EA Top Size Crocus Hybrid	1.28	
32 93 23 00-0128 EA Top Size Eranthis hyemalis - Winter Aconite	1.65	
32 93 23 00-0129 EA Top Size Galanthus nivalis - Snowdrops	2.11	
32 93 23 00-0130 EA Top Size Iris reticulata cvs - Dutch Iris	0.83	
32 93 23 00-0131 EA Top Size Muscari armeniacum - Grape Hyacinth	0.98	
32 93 23 00-0132 EA Top Size Muscari latifolium - Grape Hyacinth	1.13	
32 93 23 00-0133 EA Narcissus 'Carlton' - Carlton Daffodil DNI	6.77	
32 93 23 00-0134 EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	3.23	
32 93 23 00-0135 EA Narcissus 'February Gold' - February Gold Daffodil DNI	3.38	
32 93 23 00-0136 EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	3.38	
32 93 23 00-0137 EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	3.53	
32 93 23 00-0138 EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	3.76	
32 93 23 00-0139 EA Narcissus 'Pipit' - Pipit Daffodil DNI	3.53	
32 93 23 00-0140 EA Narcissus 'Salome' - Salome Daffodil DNI	3.31	
32 93 23 00-0141 EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	3.53	
32 93 23 00-0142 EA Narcissus 'Thalia' - Thalia Daffodil DNI	3.53	
32 93 23 00-0143 EA Top Size Scilla siberica - Siberian Squill	1.05	
32 93 23 00-0144 EA Top Size Tulip 'Angelique' - Angelique Tulip	3.01	
32 93 23 00-0145 EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	2.26	
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	3.01	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip	2.63	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip	3.76	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip	2.86	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip	2.48	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	2.78	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip	2.78	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	2.78	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	2.26	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	2.18	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip	2.26	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	3.76	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	2.26	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip	3.01	
32 93 23 00-0160 EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	3.23	
32 93 23 00-0161 EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	3.38	
32 93 23 00-0162 EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	2.71	
32 93 23 00-0163 EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	2.56	
32 93 23 00-0164 EA Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	2.78	
32 93 23 00-0165 EA Top Size Tulip 'Princes' - Princes Tulip	2.78	
32 93 23 00-0166 EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	2.18	
32 93 23 00-0167 EA Top Size Tulip saxatilis - Species Tulip	1.50	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 93 23 00-0168	EA	Top Size Tulip 'Shirley' - Shirley Tulip	2.26	
32 93 23 00-0169	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	2.93	
32 93 23 00-0170	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	2.26	

32 93 33 Shrubs (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

32 93 33 00-0001**Shrubs** (32 93 33)

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	18.87	
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	38.43	
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	73.77	
32 93 33 00-0005	EA	1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	9.33	
32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	23.08	
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	91.63	
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	101.16	
32 93 33 00-0009	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	147.84	
32 93 33 00-0010	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	164.96	
32 93 33 00-0011	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	208.54	
32 93 33 00-0012	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	231.88	
32 93 33 00-0013	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	46.69	
32 93 33 00-0014	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	62.25	
32 93 33 00-0015	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	77.81	
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	9.33	
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	23.08	
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	42.46	
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	49.95	
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	59.94	
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	69.93	
32 93 33 00-0022	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	84.92	
32 93 33 00-0023	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	41.21	
32 93 33 00-0024	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	43.71	
32 93 33 00-0025	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	46.21	
32 93 33 00-0026	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	52.45	
32 93 33 00-0027	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	41.84	
32 93 33 00-0028	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	44.33	
32 93 33 00-0029	EA	48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	46.83	
32 93 33 00-0030	EA	60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	49.33	
32 93 33 00-0031	EA	1 Gallon Aspidistra elatior - Cast Iron Plant	8.59	
32 93 33 00-0032	EA	2 Gallon Aspidistra elatior - Cast Iron Plant	19.86	
32 93 33 00-0033	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	10.06	
32 93 33 00-0034	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	22.14	
32 93 33 00-0035	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	29.92	
32 93 33 00-0036	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	9.33	
32 93 33 00-0037	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	23.08	
32 93 33 00-0038	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	9.33	
32 93 33 00-0039	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	23.08	
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	10.73	
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	15.70	
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry	44.81	
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry	56.88	
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry	79.69	
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	10.54	
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	25.39	
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	47.89	
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	61.31	
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	78.35	
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	12.88	
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	25.36	
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	30.99	
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	12.21	
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	34.48	
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	47.89	
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	73.92	
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	13.95	
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	37.43	
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	39.85	
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	51.25	
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	68.29	
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	102.50	
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	142.34	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	39.85	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	51.25	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	68.29	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood	102.50	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	26.23	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	43.71	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	114.89	
32 93 33 00-0071	EA	18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	62.44	
32 93 33 00-0072	EA	24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	84.92	
32 93 33 00-0073	EA	30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	114.89	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0074 EA 1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	5.62	
32 93 33 00-0075 EA 5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	17.29	
32 93 33 00-0076 EA 15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	56.18	
32 93 33 00-0077 EA 5 Gallon Calycanthus floridus - Common Sweetshrub.....	41.21	
32 93 33 00-0078 EA 30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	37.46	
32 93 33 00-0079 EA 36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	49.95	
32 93 33 00-0080 EA 1 Gallon Camellia "Sasanqua" - Camellia.....	14.96	
32 93 33 00-0081 EA 3 Gallon Camellia "Sasanqua" - Camellia.....	31.92	
32 93 33 00-0082 EA 5 Gallon Camellia "Sasanqua" - Camellia.....	53.08	
32 93 33 00-0083 EA 7 Gallon Camellia "Sasanqua" - Camellia.....	79.03	
32 93 33 00-0084 EA 15 Gallon Camellia "Sasanqua" - Camellia.....	205.06	
32 93 33 00-0085 EA 1 Gallon Camellia japonica - Camellia.....	14.96	
32 93 33 00-0086 EA 3 Gallon Camellia japonica - Camellia.....	31.92	
32 93 33 00-0087 EA 5 Gallon Camellia japonica - Camellia.....	53.08	
32 93 33 00-0088 EA 5 Gallon Ceanothus americanus - New Jersey Tea.....	41.21	
32 93 33 00-0089 EA 1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	10.54	
32 93 33 00-0090 EA 5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	27.40	
32 93 33 00-0091 EA 5 Gallon Celastrus scandens - Bittersweet.....	41.21	
32 93 33 00-0092 EA 36" Balled and Burlapped, Celastrus scandens - Bittersweet.....	34.97	
32 93 33 00-0093 EA 5 Gallon Cephalanthus occidentalis - Buttonbush.....	41.21	
32 93 33 00-0094 EA 24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	31.22	
32 93 33 00-0095 EA 30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	34.97	
32 93 33 00-0096 EA 36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	37.46	
32 93 33 00-0097 EA 18" To 24" Chaenomeles speciosa - Flowering Quince.....	35.95	
32 93 33 00-0098 EA 2' To 3' Chaenomeles speciosa - Flowering Quince.....	47.89	
32 93 33 00-0099 EA 3' To 4' Chaenomeles speciosa - Flowering Quince.....	73.92	
32 93 33 00-0100 EA 1 Gallon Cistus Hybridus - White Rockrose.....	9.33	
32 93 33 00-0101 EA 5 Gallon Cistus Hybridus - White Rockrose.....	23.08	
32 93 33 00-0102 EA 3 Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	39.96	
32 93 33 00-0103 EA 18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	43.08	
32 93 33 00-0104 EA 24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	48.08	
32 93 33 00-0105 EA 30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	50.58	
32 93 33 00-0106 EA 36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	59.32	
32 93 33 00-0107 EA 1 Gallon Coleonema Pulchellum - Confetti Bush.....	9.33	
32 93 33 00-0108 EA 5 Gallon Coleonema Pulchellum - Confetti Bush.....	23.08	
32 93 33 00-0109 EA 15 Gallon Coleonema Pulchellum - Confetti Bush.....	108.09	
32 93 33 00-0110 EA 2' To 3' Cornus mas - Cornelian Cherry.....	56.88	
32 93 33 00-0111 EA 3' To 4' Cornus mas - Cornelian Cherry.....	71.10	
32 93 33 00-0112 EA 4' To 5' Cornus mas - Cornelian Cherry.....	91.10	
32 93 33 00-0113 EA 5' To 6' Cornus mas - Cornelian Cherry.....	125.17	
32 93 33 00-0114 EA 5 Gallon Cornus alba & cvs - Tartarian Dogwood.....	37.46	
32 93 33 00-0115 EA 36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	26.23	
32 93 33 00-0116 EA 48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	29.97	
32 93 33 00-0117 EA 60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	37.46	
32 93 33 00-0118 EA 72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	44.96	
32 93 33 00-0119 EA 36" Balled and Burlapped, Cornus amomum - Silky Dogwood.....	37.46	
32 93 33 00-0120 EA 5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	41.21	
32 93 33 00-0121 EA 5 Gallon Cornus racemosa - Gray Dogwood.....	41.21	
32 93 33 00-0122 EA 36" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	37.46	
32 93 33 00-0123 EA 48" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	43.71	
32 93 33 00-0124 EA 60" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	47.46	
32 93 33 00-0125 EA 72" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	57.45	
32 93 33 00-0126 EA 36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	40.59	
32 93 33 00-0127 EA 48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	45.58	
32 93 33 00-0128 EA 60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	51.83	
32 93 33 00-0129 EA 24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	32.47	
32 93 33 00-0130 EA 30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	37.46	
32 93 33 00-0131 EA 36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	39.96	
32 93 33 00-0132 EA 48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	43.71	
32 93 33 00-0133 EA 60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	48.70	
32 93 33 00-0134 EA 5 Gallon Corylus americana - American Filbert.....	38.71	
32 93 33 00-0135 EA 30" Balled and Burlapped, Corylus americana - American Filbert.....	43.71	
32 93 33 00-0136 EA 36" Balled and Burlapped, Corylus americana - American Filbert.....	46.83	
32 93 33 00-0137 EA 48" Balled and Burlapped, Corylus americana - American Filbert.....	50.58	
32 93 33 00-0138 EA 24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	124.88	
32 93 33 00-0139 EA 30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	162.35	
32 93 33 00-0140 EA 36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	174.84	
32 93 33 00-0141 EA 42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	224.79	
32 93 33 00-0142 EA 48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	274.74	
32 93 33 00-0143 EA 60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	312.21	
32 93 33 00-0144 EA 5' To 6' Cotinus coggygia - Smoke Tree.....	119.54	
32 93 33 00-0145 EA 6' To 8' Cotinus coggygia - Smoke Tree.....	179.24	
32 93 33 00-0146 EA 8' To 10' Cotinus coggygia - Smoke Tree.....	270.33	
32 93 33 00-0147 EA 5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	31.22	
32 93 33 00-0148 EA 18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	31.22	
32 93 33 00-0149 EA 24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	32.47	
32 93 33 00-0150 EA 12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	29.92	
32 93 33 00-0151 EA 3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	32.47	
32 93 33 00-0152 EA 18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	31.22	
32 93 33 00-0153 EA 24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	32.47	
32 93 33 00-0154 EA 1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster.....	12.88	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	39.85	
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	53.80	
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	91.09	
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	9.33	
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	23.08	
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	12.88	
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	25.36	
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	9.33	
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	23.08	
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	91.63	
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	14.41	
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	36.02	
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	31.85	
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	34.97	
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	44.96	
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	52.45	
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	59.94	
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	49.95	
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	59.94	
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	69.93	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	18.73	
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	44.96	
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	59.94	
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	23.08	
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	9.33	
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	23.08	
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	91.63	
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	9.33	
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	23.08	
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	91.63	
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	37.30	
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	51.25	
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	61.31	
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	59.70	
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	9.33	
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	23.08	
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	91.63	
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	10.73	
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	22.54	
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	30.99	
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	9.16	
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	26.43	
32 93 33 00-0197	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus	35.62	
32 93 33 00-0198	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus	44.52	
32 93 33 00-0199	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus	61.18	
32 93 33 00-0200	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus	75.54	
32 93 33 00-0201	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus	89.04	
32 93 33 00-0202	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus	114.89	
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	33.03	
32 93 33 00-0204	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus	143.62	
32 93 33 00-0205	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	56.20	
32 93 33 00-0206	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	66.81	
32 93 33 00-0207	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	87.42	
32 93 33 00-0208	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	104.90	
32 93 33 00-0209	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	129.88	
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	39.85	
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	46.96	
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	64.13	
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	76.87	
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	96.73	
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	136.57	
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	170.78	
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	199.23	
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	39.85	
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	45.48	
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	55.54	
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	78.35	
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	92.57	
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	110.95	
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	156.56	
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	185.00	
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	33.72	
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	12.88	
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	25.36	
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper	30.99	
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper	36.76	
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle	9.33	
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle	23.08	
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle	91.63	
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia	28.44	
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia	35.96	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia	44.81	
32 93 33 00-0237	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	28.72	
32 93 33 00-0238	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	31.85	
32 93 33 00-0239	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	34.34	
32 93 33 00-0240	EA	18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	29.97	
32 93 33 00-0241	EA	24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	39.96	
32 93 33 00-0242	EA	24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	29.97	
32 93 33 00-0243	EA	30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	34.97	
32 93 33 00-0244	EA	36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	41.21	
32 93 33 00-0245	EA	42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	47.46	
32 93 33 00-0246	EA	48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	54.95	
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	42.46	
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	59.32	
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	62.44	
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	64.94	
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	69.93	
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	84.92	
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla	109.90	
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla	124.88	
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine	9.26	
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine	24.28	
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine	30.99	
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea	9.33	
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea	23.08	
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea	91.63	
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	87.42	
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	142.37	
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	179.83	
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	274.74	
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	312.21	
32 93 33 00-0266	EA	1 Gallon Hedychium gartdnerum - Variegated Ginger	5.31	
32 93 33 00-0267	EA	3 Gallon Hedychium gartdnerum - Variegated Ginger	18.67	
32 93 33 00-0268	EA	5 Gallon Hedychium gartdnerum - Variegated Ginger	35.90	
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	13.61	
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	22.98	
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	34.75	
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	35.96	
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	30.59	
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	41.32	
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	59.70	
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	82.51	
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	25.36	
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	35.69	
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	39.84	
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	45.48	
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	25.36	
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	43.71	
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	47.46	
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	54.95	
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	57.45	
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	44.96	
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	59.94	
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	26.23	
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	31.22	
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	26.85	
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	28.72	
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	32.47	
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	37.46	
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	49.95	
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	36.22	
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	41.21	
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	48.70	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort	25.36	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort	29.97	
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort	32.47	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	12.88	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	25.36	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	35.69	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	34.21	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	43.33	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	56.21	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	68.29	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	25.55	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	12.88	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	25.36	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	36.76	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	12.88	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	28.17	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	36.76	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	28.17	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	33.94	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 33 00-0317	EA	2'	To 3' Ilex crenata - Hetzi Japanese Holly	68.29	
32 93 33 00-0318	EA	3'	To 4' Ilex crenata - Hetzi Japanese Holly	91.09	
32 93 33 00-0319	EA	2'	To 3' Ilex opaca - American Holly	91.09	
32 93 33 00-0320	EA	3'	To 4' Ilex opaca - American Holly	150.79	
32 93 33 00-0321	EA	4'	To 5' Ilex opaca - American Holly	193.46	
32 93 33 00-0322	EA	5'	To 6' Ilex opaca - American Holly	233.30	
32 93 33 00-0323	EA	6'	To 7' Ilex opaca - American Holly	327.21	
32 93 33 00-0324	EA	7'	To 8' Ilex opaca - American Holly	455.33	
32 93 33 00-0325	EA	8'	To 10' Ilex opaca - American Holly	654.42	
32 93 33 00-0326	EA	10'	To 12' Ilex opaca - American Holly	995.99	
32 93 33 00-0327	EA	12'	To 14' Ilex opaca - American Holly	1,209.30	
32 93 33 00-0328	EA	14'	To 16' Ilex opaca - American Holly	1,493.85	
32 93 33 00-0329	EA	2'	To 3' Ilex verticillata - Winterberry (Female)	91.09	
32 93 33 00-0330	EA	3'	To 4' Ilex verticillata - Winterberry (Female)	119.54	
32 93 33 00-0331	EA	2'	To 3' Ilex verticillata - Winterberry (Male)	73.92	
32 93 33 00-0332	EA	3'	To 4' Ilex verticillata - Winterberry (Male)	102.50	
32 93 33 00-0333	EA	4'	To 5' Ilex verticillata - Winterberry (Male)	119.54	
32 93 33 00-0334	EA	1	Gallon Ilex vomitoria - Yaupon Holly	12.08	
32 93 33 00-0335	EA	3	Gallon Ilex vomitoria - Yaupon Holly	24.28	
32 93 33 00-0336	EA	10	Gallon Ilex vomitoria - Yaupon Holly	85.32	
32 93 33 00-0337	EA	18"	Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	38.71	
32 93 33 00-0338	EA	24"	Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	43.71	
32 93 33 00-0339	EA	3	Gallon Ilex meserveae & cvs - Blue Holly	49.95	
32 93 33 00-0340	EA	18"	Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	46.21	
32 93 33 00-0341	EA	24"	Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	56.20	
32 93 33 00-0342	EA	5	Gallon Ilex verticillata & cvs - Common Winterberry	41.21	
32 93 33 00-0343	EA	24"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	41.21	
32 93 33 00-0344	EA	30"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	43.71	
32 93 33 00-0345	EA	36"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	52.45	
32 93 33 00-0346	EA	42"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	58.69	
32 93 33 00-0347	EA	48"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	62.44	
32 93 33 00-0348	EA	60"	Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	79.92	
32 93 33 00-0349	EA	4'	To 5' Ilex x attenuata "Foster" - Holly	147.98	
32 93 33 00-0350	EA	5'	To 6' Ilex x attenuata "Foster" - Holly	196.27	
32 93 33 00-0351	EA	6'	To 7' Ilex x attenuata "Foster" - Holly	175.61	
32 93 33 00-0352	EA	7'	To 8' Ilex x attenuata "Foster" - Holly	341.43	
32 93 33 00-0353	EA	1	Gallon Jasimnum - Jasmine	3.30	
32 93 33 00-0354	EA	3	Gallon Jasimnum - Jasmine	12.93	
32 93 33 00-0355	EA	3	Gallon Jasimnum - Orange Jasmine	10.05	
32 93 33 00-0356	EA	4'	- 5' Jasimnum - Orange Jasmine	114.89	
32 93 33 00-0357	EA	6'	- 7' Jasimnum - Orange Jasmine	229.78	
32 93 33 00-0358	EA	8'	- 10' Jasimnum - Orange Jasmine	310.21	
32 93 33 00-0359	EA	3	Gallon Juniperus chinensis cvs - Chinese Juniper	43.71	
32 93 33 00-0360	EA	5	Gallon Juniperus chinensis cvs - Chinese Juniper	48.70	
32 93 33 00-0361	EA	18"	Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	64.94	
32 93 33 00-0362	EA	24"	Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	84.92	
32 93 33 00-0363	EA	30"	Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	99.91	
32 93 33 00-0364	EA	36"	Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	134.87	
32 93 33 00-0365	EA	48"	Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	184.83	
32 93 33 00-0366	EA	1	Gallon Juniperus horizontalis cvs - Creeping Juniper	20.82	
32 93 33 00-0367	EA	3	Gallon Juniperus horizontalis cvs - Creeping Juniper	43.71	
32 93 33 00-0368	EA	5	Gallon Juniperus horizontalis cvs - Creeping Juniper	48.70	
32 93 33 00-0369	EA	15"	Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	52.45	
32 93 33 00-0370	EA	18"	Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	57.45	
32 93 33 00-0371	EA	24"	Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	69.93	
32 93 33 00-0372	EA	30"	Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	84.92	
32 93 33 00-0373	EA	3	Gallon Juniperus procumbens cvs - Japanese Garden Juniper	33.72	
32 93 33 00-0374	EA	18"	Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	39.96	
32 93 33 00-0375	EA	24"	Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	54.95	
32 93 33 00-0376	EA	30"	Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	69.93	
32 93 33 00-0377	EA	36"	Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	84.92	
32 93 33 00-0378	EA	3	Gallon Juniperus sabina cvs - Savin Juniper	31.22	
32 93 33 00-0379	EA	5	Gallon Juniperus sabina cvs - Savin Juniper	37.46	
32 93 33 00-0380	EA	4	Gallon Juniperus virginiana cvs - Red Cedar Juniper	32.47	
32 93 33 00-0381	EA	36"	Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	62.44	
32 93 33 00-0382	EA	48"	Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	97.41	
32 93 33 00-0383	EA	60"	Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	122.38	
32 93 33 00-0384	EA	15"	To 18" Kalmia latifolia - Mountain Laurel	51.25	
32 93 33 00-0385	EA	18"	To 24" Kalmia latifolia - Mountain Laurel	68.29	
32 93 33 00-0386	EA	2'	To 3' Kalmia latifolia - Mountain Laurel	99.55	
32 93 33 00-0387	EA	4'	To 5' Kalmia latifolia - Mountain Laurel	182.05	
32 93 33 00-0388	EA	5'	To 6' Kalmia latifolia - Mountain Laurel	278.91	
32 93 33 00-0389	EA	6'	To 8' Kalmia latifolia - Mountain Laurel	426.89	
32 93 33 00-0390	EA	1	Gallon Kerria japonica - Kerria	11.40	
32 93 33 00-0391	EA	5	Gallon Kerria japonica - Kerria	35.69	
32 93 33 00-0392	EA	24"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	36.22	
32 93 33 00-0393	EA	30"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	41.21	
32 93 33 00-0394	EA	36"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	44.96	
32 93 33 00-0395	EA	42"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	52.45	
32 93 33 00-0396	EA	48"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	59.94	
32 93 33 00-0397	EA	60"	Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	74.93	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle		8.59	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle		30.59	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle		42.66	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle		62.65	
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle		99.55	
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle		129.25	
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle		172.34	
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle		359.04	
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe		12.88	
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe		28.17	
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe		33.94	
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet		7.92	
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet		24.28	
32 93 33 00-0411	EA	15 Gallon Ligustrum lucidum - Glossy Privet		113.77	
32 93 33 00-0412	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet		7.92	
32 93 33 00-0413	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet		17.04	
32 93 33 00-0414	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet		22.14	
32 93 33 00-0415	EA	36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet		37.46	
32 93 33 00-0416	EA	48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet		54.95	
32 93 33 00-0417	EA	60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet		69.93	
32 93 33 00-0418	EA	72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet		79.92	
32 93 33 00-0419	EA	5 Gallon Lindera benzoin - Spicebush		41.21	
32 93 33 00-0420	EA	36" Balled and Burlapped, Lindera benzoin - Spicebush		34.97	
32 93 33 00-0421	EA	48" Balled and Burlapped, Lindera benzoin - Spicebush		42.46	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle		68.29	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle		82.51	
32 93 33 00-0424	EA	30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle		37.46	
32 93 33 00-0425	EA	36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle		44.96	
32 93 33 00-0426	EA	42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle		49.95	
32 93 33 00-0427	EA	48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle		54.95	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle		7.18	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle		22.98	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle		50.27	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle		74.68	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle		114.89	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle		344.68	
32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle		10.05	
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle		34.47	
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle		63.19	
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle		86.17	
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle		114.89	
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle		175.21	
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry		37.46	
32 93 33 00-0441	EA	24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry		61.19	
32 93 33 00-0442	EA	30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry		89.92	
32 93 33 00-0443	EA	36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry		107.40	
32 93 33 00-0444	EA	48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry		112.39	
32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum		9.33	
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum		23.08	
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum		91.63	
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo		12.88	
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo		28.17	
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo		42.66	
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander		100.26	
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander		360.29	
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive		7.92	
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive		21.46	
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange		11.00	
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange		35.69	
32 93 33 00-0457	EA	36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange		37.46	
32 93 33 00-0458	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange		43.71	
32 93 33 00-0459	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange		49.95	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia		9.33	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia		23.08	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia		91.63	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax		9.84	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax		23.58	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax		100.26	
32 93 33 00-0466	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark		37.46	
32 93 33 00-0467	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark		43.71	
32 93 33 00-0468	EA	36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark		49.95	
32 93 33 00-0469	EA	42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark		62.44	
32 93 33 00-0470	EA	48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark		74.93	
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda		34.48	
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda		73.92	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda		44.81	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda		51.25	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda		64.13	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda		91.09	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda		108.13	
32 93 33 00-0478	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine		38.91	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 33 00-0479	EA		30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	49.80	
32 93 33 00-0480	EA		36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	59.92	
32 93 33 00-0481	EA		48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	77.04	
32 93 33 00-0482	EA		60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	92.60	
32 93 33 00-0483	EA		72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	135.39	
32 93 33 00-0484	EA		30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	84.04	
32 93 33 00-0485	EA		36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	101.16	
32 93 33 00-0486	EA		48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	134.62	
32 93 33 00-0487	EA		1 Gallon Pittosporum - Pittosporum	4.74	
32 93 33 00-0488	EA		3 Gallon Pittosporum - Pittosporum	12.21	
32 93 33 00-0489	EA		1 Gallon Pittosporum - Varigated Pittosporum	4.74	
32 93 33 00-0490	EA		3 Gallon Pittosporum - Varigated Pittosporum	12.21	
32 93 33 00-0491	EA		5 Gallon Pittosporum - Varigated Pittosporum	21.40	
32 93 33 00-0492	EA		1 Gallon Pittosporum eugenioides - Lemonwood	10.72	
32 93 33 00-0493	EA		5 Gallon Pittosporum eugenioides - Lemonwood	25.39	
32 93 33 00-0494	EA		1 Gallon Pittosporum tobira - Japanese Pittosporum	9.33	
32 93 33 00-0495	EA		5 Gallon Pittosporum tobira - Japanese Pittosporum	23.08	
32 93 33 00-0496	EA		15 Gallon Pittosporum tobira - Japanese Pittosporum	91.63	
32 93 33 00-0497	EA		2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	21.23	
32 93 33 00-0498	EA		5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	29.97	
32 93 33 00-0499	EA		18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	22.48	
32 93 33 00-0500	EA		24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	24.98	
32 93 33 00-0501	EA		30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	36.22	
32 93 33 00-0502	EA		36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	41.84	
32 93 33 00-0503	EA		1 Gallon Prunus caroliniana - Carolina Cherry Laurel	5.35	
32 93 33 00-0504	EA		5 Gallon Prunus caroliniana - Carolina Cherry Laurel	13.37	
32 93 33 00-0505	EA		15 Gallon Prunus caroliniana - Carolina Cherry Laurel	79.75	
32 93 33 00-0506	EA		15" To 18" Prunus laurocerasus - Cherry Laurel	20.40	
32 93 33 00-0507	EA		18" To 24" Prunus laurocerasus - Cherry Laurel	25.24	
32 93 33 00-0508	EA		24" To 30" Prunus laurocerasus - Cherry Laurel	32.85	
32 93 33 00-0509	EA		15" To 18" Prunus triloba - Double White Flowering Almond	18.22	
32 93 33 00-0510	EA		18" To 24" Prunus triloba - Double White Flowering Almond	23.32	
32 93 33 00-0511	EA		3' To 4' Prunus triloba - Double White Flowering Almond	37.20	
32 93 33 00-0512	EA		4' To 6' Prunus triloba - Double White Flowering Almond	74.48	
32 93 33 00-0513	EA		5 Gallon Prunus triloba - Pink Flowering Almond	22.40	
32 93 33 00-0514	EA		18" To 24" Prunus triloba - Pink Flowering Almond	25.16	
32 93 33 00-0515	EA		2' To 3' Prunus triloba - Pink Flowering Almond	29.26	
32 93 33 00-0516	EA		2' To 3' Prunus virginiana - Brilliant Chokeberry	19.90	
32 93 33 00-0517	EA		3' To 4' Prunus virginiana - Brilliant Chokeberry	24.41	
32 93 33 00-0518	EA		4' To 5' Prunus virginiana - Brilliant Chokeberry	29.26	
32 93 33 00-0519	EA		5' To 6' Prunus virginiana - Brilliant Chokeberry	33.52	
32 93 33 00-0520	EA		1 Gallon Punica granatum - Dwarf Pomegranate	8.45	
32 93 33 00-0521	EA		3 Gallon Punica granatum - Dwarf Pomegranate	24.95	
32 93 33 00-0522	EA		7 Gallon Punica granatum - Dwarf Pomegranate	51.25	
32 93 33 00-0523	EA		1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	10.73	
32 93 33 00-0524	EA		5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	35.69	
32 93 33 00-0525	EA		5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha	73.92	
32 93 33 00-0526	EA		1 Gallon Ralphialepis indica - Indian Hawthorne	8.59	
32 93 33 00-0527	EA		2 Gallon Ralphialepis indica - Indian Hawthorne	16.37	
32 93 33 00-0528	EA		5 Gallon Ralphialepis indica - Indian Hawthorne	29.11	
32 93 33 00-0529	EA		1 Gallon Rhamnus californica - Coffeeberry	13.05	
32 93 33 00-0530	EA		5 Gallon Rhamnus californica - Coffeeberry	37.32	
32 93 33 00-0531	EA		15 Gallon Rhamnus californica - Coffeeberry	112.00	
32 93 33 00-0532	EA		4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	65.47	
32 93 33 00-0533	EA		5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	89.75	
32 93 33 00-0534	EA		6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	116.72	
32 93 33 00-0535	EA		10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	213.45	
32 93 33 00-0536	EA		1 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	9.94	
32 93 33 00-0537	EA		5 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	23.58	
32 93 33 00-0538	EA		15 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	100.26	
32 93 33 00-0539	EA		1 Gallon Rhododendron - Azalea Evergreen Hybrids	13.95	
32 93 33 00-0540	EA		2 Gallon Rhododendron - Azalea Evergreen Hybrids	28.17	
32 93 33 00-0541	EA		3 Gallon Rhododendron - Azalea Evergreen Hybrids	36.76	
32 93 33 00-0542	EA		5 Gallon Rhododendron - Azalea Evergreen Hybrids	42.66	
32 93 33 00-0543	EA		15" To 18" Rhododendron - Azalea Evergreen Hybrids	49.91	
32 93 33 00-0544	EA		18" To 24" Rhododendron - Azalea Evergreen Hybrids	62.65	
32 93 33 00-0545	EA		2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	91.09	
32 93 33 00-0546	EA		2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	127.99	
32 93 33 00-0547	EA		1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	15.70	
32 93 33 00-0548	EA		2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	28.17	
32 93 33 00-0549	EA		15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	48.43	
32 93 33 00-0550	EA		18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	62.65	
32 93 33 00-0551	EA		2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	91.09	
32 93 33 00-0552	EA		3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	133.76	
32 93 33 00-0553	EA		4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	179.24	
32 93 33 00-0554	EA		5 Gallon Rhododendron - Boxleaf Azara	35.69	
32 93 33 00-0555	EA		15 Gallon Rhododendron - Boxleaf Azara	127.99	
32 93 33 00-0556	EA		15" To 18" Rhododendron - Carolina Rhododendron	40.38	
32 93 33 00-0557	EA		18" To 24" Rhododendron - Carolina Rhododendron	71.10	
32 93 33 00-0558	EA		24" To 30" Rhododendron - Carolina Rhododendron	105.31	
32 93 33 00-0559	EA		2' To 3' Rhododendron - Five-leafed Azalea	47.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0560	EA		3' To 4' Rhododendron - Five-leafed Azalea.....	62.65	
32 93 33 00-0561	EA		4' To 5' Rhododendron - Five-leafed Azalea.....	82.51	
32 93 33 00-0562	EA		15" To 18" Rhododendron - Ghent Azalea.....	47.89	
32 93 33 00-0563	EA		18" To 24" Rhododendron - Ghent Azalea.....	59.70	
32 93 33 00-0564	EA		2' To 3' Rhododendron - Ghent Azalea.....	96.73	
32 93 33 00-0565	EA		3' To 4' Rhododendron - Ghent Azalea.....	133.76	
32 93 33 00-0566	EA		4' To 5' Rhododendron - Ghent Azalea.....	179.24	
32 93 33 00-0567	EA		5' To 6' Rhododendron - Ghent Azalea.....	239.07	
32 93 33 00-0568	EA		1 Gallon Rhododendron - Hybrid Rhododendron.....	15.70	
32 93 33 00-0569	EA		2 Gallon Rhododendron - Hybrid Rhododendron.....	33.94	
32 93 33 00-0570	EA		3 Gallon Rhododendron - Hybrid Rhododendron.....	48.16	
32 93 33 00-0571	EA		5 Gallon Rhododendron - Hybrid Rhododendron.....	53.80	
32 93 33 00-0572	EA		15" To 18" Rhododendron - Hybrid Rhododendron.....	45.48	
32 93 33 00-0573	EA		18" To 24" Rhododendron - Hybrid Rhododendron.....	62.65	
32 93 33 00-0574	EA		24" To 30" Rhododendron - Hybrid Rhododendron.....	85.32	
32 93 33 00-0575	EA		30" To 36" Rhododendron - Hybrid Rhododendron.....	99.55	
32 93 33 00-0576	EA		36" To 42" Rhododendron - Hybrid Rhododendron.....	142.34	
32 93 33 00-0577	EA		42" To 48" Rhododendron - Hybrid Rhododendron.....	176.42	
32 93 33 00-0578	EA		15" To 18" Rhododendron - Pjm Rhododendron.....	51.25	
32 93 33 00-0579	EA		18" To 24" Rhododendron - Pjm Rhododendron.....	62.65	
32 93 33 00-0580	EA		2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	91.09	
32 93 33 00-0581	EA		2-1/2 To 3' Rhododendron - Pjm Rhododendron.....	116.72	
32 93 33 00-0582	EA		3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	142.34	
32 93 33 00-0583	EA		12" To 15" Rhododendron - Torch Azalea.....	39.85	
32 93 33 00-0584	EA		15" To 18" Rhododendron - Torch Azalea.....	47.89	
32 93 33 00-0585	EA		18" To 24" Rhododendron - Torch Azalea.....	59.70	
32 93 33 00-0586	EA		2' To 3' Rhododendron - Torch Azalea.....	99.55	
32 93 33 00-0587	EA		3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	44.96	
32 93 33 00-0588	EA		5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	54.95	
32 93 33 00-0589	EA		18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	67.44	
32 93 33 00-0590	EA		24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	84.92	
32 93 33 00-0591	EA		30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	99.91	
32 93 33 00-0592	EA		36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	119.89	
32 93 33 00-0593	EA		1 Gallon Rhus glabra - Dwarf Smooth Sumac.....	12.88	
32 93 33 00-0594	EA		5 Gallon Rhus glabra - Dwarf Smooth Sumac.....	35.69	
32 93 33 00-0595	EA		2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	29.97	
32 93 33 00-0596	EA		5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	41.21	
32 93 33 00-0597	EA		18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	47.46	
32 93 33 00-0598	EA		24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	62.44	
32 93 33 00-0599	EA		36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	37.46	
32 93 33 00-0600	EA		48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	62.44	
32 93 33 00-0601	EA		72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	99.91	
32 93 33 00-0602	EA		15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	38.72	
32 93 33 00-0603	EA		18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	38.71	
32 93 33 00-0604	EA		24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	56.20	
32 93 33 00-0605	EA		30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	74.93	
32 93 33 00-0606	EA		1 Gallon Rosa hybrids & cvs - Shrub Rose.....	20.61	
32 93 33 00-0607	EA		2 Gallon Rosa hybrids & cvs - Shrub Rose.....	24.98	
32 93 33 00-0608	EA		3 Gallon Rosa hybrids & cvs - Shrub Rose.....	31.22	
32 93 33 00-0609	EA		2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	22.48	
32 93 33 00-0610	EA		3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	28.72	
32 93 33 00-0611	EA		5 Gallon Sambucus canadensis - American Elder.....	41.21	
32 93 33 00-0612	EA		1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	9.33	
32 93 33 00-0613	EA		5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	23.08	
32 93 33 00-0614	EA		1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	9.33	
32 93 33 00-0615	EA		5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	23.08	
32 93 33 00-0616	EA		2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	18.51	
32 93 33 00-0617	EA		3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	27.10	
32 93 33 00-0618	EA		1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	10.06	
32 93 33 00-0619	EA		5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	26.30	
32 93 33 00-0620	EA		5 Gallon Senna artemisioides - Feathery Cassia.....	17.29	
32 93 33 00-0621	EA		15 Gallon Senna artemisioides - Feathery Cassia.....	68.79	
32 93 33 00-0622	EA		24" Box Senna artemisioides - Feathery Cassia.....	216.09	
32 93 33 00-0623	EA		1 Gallon Skimmia japonica - Japanese Skimmia.....	12.88	
32 93 33 00-0624	EA		2 Gallon Skimmia japonica - Japanese Skimmia.....	25.62	
32 93 33 00-0625	EA		5 Gallon Skimmia japonica - Japanese Skimmia.....	41.32	
32 93 33 00-0626	EA		1 Gallon Sollya fusiformis - Bluebell Creeper.....	9.33	
32 93 33 00-0627	EA		5 Gallon Sollya fusiformis - Bluebell Creeper.....	23.08	
32 93 33 00-0628	EA		3' To 4' Spiraea - Garland Spirea.....	59.70	
32 93 33 00-0629	EA		4' To 5' Spiraea - Garland Spirea.....	91.09	
32 93 33 00-0630	EA		5 Gallon Spiraea - Snowmound Spirea.....	35.69	
32 93 33 00-0631	EA		18" To 24" Spiraea - Snowmound Spirea.....	29.25	
32 93 33 00-0632	EA		2' To 3' Spiraea - Snowmound Spirea.....	41.32	
32 93 33 00-0633	EA		3' To 4' Spiraea - Snowmound Spirea.....	47.90	
32 93 33 00-0634	EA		4' To 5' Spiraea - Snowmound Spirea.....	82.51	
32 93 33 00-0635	EA		1 Gallon Spiraea japonica & cvs - Japanese Spirea.....	12.88	
32 93 33 00-0636	EA		2 Gallon Spiraea japonica & cvs - Japanese Spirea.....	25.36	
32 93 33 00-0637	EA		3 Gallon Spiraea japonica & cvs - Japanese Spirea.....	29.35	
32 93 33 00-0638	EA		5 Gallon Spiraea japonica & cvs - Japanese Spirea.....	31.85	
32 93 33 00-0639	EA		18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	32.47	
32 93 33 00-0640	EA		24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	37.46	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0641	EA	30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	42.46
32 93 33 00-0642	EA	36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	49.33
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	19.98
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	29.97
32 93 33 00-0645	EA	18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	27.47
32 93 33 00-0646	EA	24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	32.47
32 93 33 00-0647	EA	30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	37.46
32 93 33 00-0648	EA	36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	42.46
32 93 33 00-0649	EA	48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	54.95
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	12.88
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	23.10
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	29.97
32 93 33 00-0653	EA	18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	26.23
32 93 33 00-0654	EA	24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	31.85
32 93 33 00-0655	EA	30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	37.46
32 93 33 00-0656	EA	36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	42.46
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	29.97
32 93 33 00-0658	EA	18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	29.97
32 93 33 00-0659	EA	24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	34.97
32 93 33 00-0660	EA	30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	47.46
32 93 33 00-0661	EA	36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	54.95
32 93 33 00-0662	EA	42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	64.94
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladdernut	42.16
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	29.97
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	32.47
32 93 33 00-0666	EA	24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	37.46
32 93 33 00-0667	EA	30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	44.96
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry	31.22
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry	33.09
32 93 33 00-0670	EA	24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	54.95
32 93 33 00-0671	EA	30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	68.69
32 93 33 00-0672	EA	36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	79.92
32 93 33 00-0673	EA	42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	92.41
32 93 33 00-0674	EA	18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	54.95
32 93 33 00-0675	EA	24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	59.94
32 93 33 00-0676	EA	30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	68.69
32 93 33 00-0677	EA	36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	79.92
32 93 33 00-0678	EA	42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	92.41
32 93 33 00-0679	EA	60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac	43.71
32 93 33 00-0680	EA	72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac	47.46
32 93 33 00-0681	EA	36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	37.46
32 93 33 00-0682	EA	42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	42.46
32 93 33 00-0683	EA	48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	47.46
32 93 33 00-0684	EA	60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	54.95
32 93 33 00-0685	EA	72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	67.44
32 93 33 00-0686	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac	31.22
32 93 33 00-0687	EA	36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	36.22
32 93 33 00-0688	EA	48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	47.46
32 93 33 00-0689	EA	48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	198.56
32 93 33 00-0690	EA	54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	222.29
32 93 33 00-0691	EA	60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	244.77
32 93 33 00-0692	EA	72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	294.72
32 93 33 00-0693	EA	18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	52.45
32 93 33 00-0694	EA	24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	68.69
32 93 33 00-0695	EA	30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	79.92
32 93 33 00-0696	EA	36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	87.42
32 93 33 00-0697	EA	15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	52.45
32 93 33 00-0698	EA	18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	68.69
32 93 33 00-0699	EA	24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	81.17
32 93 33 00-0700	EA	30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	96.16
32 93 33 00-0701	EA	36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	144.86
32 93 33 00-0702	EA	36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	79.92
32 93 33 00-0703	EA	48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	107.40
32 93 33 00-0704	EA	60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	162.35
32 93 33 00-0705	EA	72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	237.28
32 93 33 00-0706	EA	84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	272.24
32 93 33 00-0707	EA	96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	315.95
32 93 33 00-0708	EA	15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	34.97
32 93 33 00-0709	EA	18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	48.70
32 93 33 00-0710	EA	24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	68.69
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	59.70
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	91.10
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	119.54
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	7.24
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum	19.86
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball	35.69
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball	133.76
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	62.65
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	73.92
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	103.97
32 93 33 00-0721	EA	30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	68.69



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0722	EA 36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	82.42	
32 93 33 00-0723	EA 24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	62.44	
32 93 33 00-0724	EA 30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	74.93	
32 93 33 00-0725	EA 36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	87.42	
32 93 33 00-0726	EA 42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	99.91	
32 93 33 00-0727	EA 1 Gallon Viburnum davidii - David Viburnum	9.33	
32 93 33 00-0728	EA 5 Gallon Viburnum davidii - David Viburnum	23.08	
32 93 33 00-0729	EA 36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	34.97	
32 93 33 00-0730	EA 42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	37.46	
32 93 33 00-0731	EA 48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	43.71	
32 93 33 00-0732	EA 60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	49.95	
32 93 33 00-0733	EA 72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	54.95	
32 93 33 00-0734	EA 30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	33.72	
32 93 33 00-0735	EA 36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	37.46	
32 93 33 00-0736	EA 42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	47.46	
32 93 33 00-0737	EA 48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	54.95	
32 93 33 00-0738	EA 60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	74.93	
32 93 33 00-0739	EA 72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	89.92	
32 93 33 00-0740	EA 36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	37.46	
32 93 33 00-0741	EA 48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	49.95	
32 93 33 00-0742	EA 5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	62.44	
32 93 33 00-0743	EA 6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	87.42	
32 93 33 00-0744	EA 7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	124.88	
32 93 33 00-0745	EA 8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	174.84	
32 93 33 00-0746	EA 9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	224.79	
32 93 33 00-0747	EA 30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	44.96	
32 93 33 00-0748	EA 36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	49.95	
32 93 33 00-0749	EA 36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	89.92	
32 93 33 00-0750	EA 48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	137.37	
32 93 33 00-0751	EA 60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	174.84	
32 93 33 00-0752	EA 72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	212.30	
32 93 33 00-0753	EA 84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	262.25	
32 93 33 00-0754	EA 96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	312.21	
32 93 33 00-0755	EA 108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	374.65	
32 93 33 00-0756	EA 120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	437.09	
32 93 33 00-0757	EA 30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	38.09	
32 93 33 00-0758	EA 36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	41.84	
32 93 33 00-0759	EA 48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	47.46	
32 93 33 00-0760	EA 60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	54.95	
32 93 33 00-0761	EA 72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	63.07	
32 93 33 00-0762	EA 18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	36.22	
32 93 33 00-0763	EA 24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	43.71	
32 93 33 00-0764	EA 30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	52.45	
32 93 33 00-0765	EA 36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	59.94	
32 93 33 00-0766	EA 42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	72.43	
32 93 33 00-0767	EA 48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	79.92	
32 93 33 00-0768	EA 30" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	62.44	
32 93 33 00-0769	EA 36" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	74.93	
32 93 33 00-0770	EA 42" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	87.42	
32 93 33 00-0771	EA 48" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	99.91	
32 93 33 00-0772	EA 60" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	112.39	
32 93 33 00-0773	EA 30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	79.92	
32 93 33 00-0774	EA 36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	89.92	
32 93 33 00-0775	EA 42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	102.40	
32 93 33 00-0776	EA 48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	117.39	
32 93 33 00-0777	EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	73.92	
32 93 33 00-0778	EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	91.09	
32 93 33 00-0779	EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	133.76	
32 93 33 00-0780	EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela	41.21	
32 93 33 00-0781	EA 24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	37.46	
32 93 33 00-0782	EA 30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	42.46	
32 93 33 00-0783	EA 36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	47.46	
32 93 33 00-0784	EA 42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	54.95	
32 93 33 00-0785	EA 48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	62.44	
32 93 33 00-0786	EA 1 Gallon Xylosma congestum - Shiny Xylosma	8.59	
32 93 33 00-0787	EA 5 Gallon Xylosma congestum - Shiny Xylosma	24.28	
32 93 33 00-0788	EA 15 Gallon Xylosma congestum - Shiny Xylosma	106.79	
32 93 33 00-0789	EA 1 Gallon Yucca aloifolia - Spanish Bayonet	7.24	
32 93 33 00-0790	EA 3 Gallon Yucca aloifolia - Spanish Bayonet	19.18	
32 93 33 00-0791	EA 1 Gallon Yucca filamentosa - Adams Needle	10.06	
32 93 33 00-0792	EA 3 Gallon Yucca filamentosa - Adams Needle	19.59	
32 93 33 00-0793	EA 5 Gallon Yucca filamentosa - Adams Needle	30.99	
32 93 33 00-0794	EA 5 Gallon Border Forsythia - Goldenbells	34.48	
32 93 33 00-0795	EA 2' To 3' Border Forsythia - Goldenbells	28.44	
32 93 33 00-0796	EA 3' To 4' Border Forsythia - Goldenbells	35.95	
32 93 33 00-0797	EA 4' To 5' Border Forsythia - Goldenbells	44.81	
32 93 33 00-0798	EA 5' To 6' Border Forsythia - Goldenbells	53.80	
32 93 33 00-0799	EA 6' To 8' Border Forsythia - Goldenbells	73.92	
32 93 33 00-0800	EA 3' Juniperus chinensis - Columnar Chinese Juniper	73.24	
32 93 33 00-0801	EA 4' Juniperus chinensis - Columnar Chinese Juniper	100.53	
32 93 33 00-0802	EA 5' Juniperus chinensis - Columnar Chinese Juniper	157.98	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 93 33 00-0803	EA	6' Juniperus chinensis - Columnar Chinese Juniper	183.83	
32 93 33 00-0804	EA	7' Juniperus chinensis - Columnar Chinese Juniper	241.27	
32 93 33 00-0805	EA	2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	14.36	
32 93 33 00-0806	EA	3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	20.11	
32 93 33 00-0807	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	48.69	
32 93 33 00-0808	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	14.36	
32 93 33 00-0809	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	20.11	

32 93 43 Trees ^(32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees ^(32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple	343.78	
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple	420.17	
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple	477.47	
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple	553.86	
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple	630.26	
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple	744.85	
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	272.76	
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,222.32	
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,527.90	
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple	305.58	
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye	763.95	
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye	993.13	
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye	1,145.92	
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye	1,298.71	
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye	1,527.90	
32 93 43 00-0017	EA	36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	99.91	
32 93 43 00-0018	EA	48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	124.88	
32 93 43 00-0019	EA	60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	154.85	
32 93 43 00-0020	EA	60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	124.88	
32 93 43 00-0021	EA	72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	149.86	
32 93 43 00-0022	EA	7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	174.84	
32 93 43 00-0023	EA	8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	199.81	
32 93 43 00-0024	EA	5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	224.79	
32 93 43 00-0025	EA	6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	249.77	
32 93 43 00-0026	EA	7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	287.23	
32 93 43 00-0027	EA	8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	324.69	
32 93 43 00-0028	EA	9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	374.65	
32 93 43 00-0029	EA	7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	287.23	
32 93 43 00-0030	EA	8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	337.18	
32 93 43 00-0031	EA	9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	387.14	
32 93 43 00-0032	EA	10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	424.60	
32 93 43 00-0033	EA	30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	99.91	
32 93 43 00-0034	EA	48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	212.30	
32 93 43 00-0035	EA	60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	274.74	
32 93 43 00-0036	EA	2' To 4' Amelemchier - Juneberry	30.41	
32 93 43 00-0037	EA	4' To 5' Amelemchier - Juneberry	31.90	
32 93 43 00-0038	EA	5' To 6' Amelemchier - Juneberry	37.98	
32 93 43 00-0039	EA	6' To 8' Amelemchier - Juneberry	45.32	
32 93 43 00-0040	EA	6' Cercis occidentalis - Western Redbud	213.92	
32 93 43 00-0041	EA	8' Cercis occidentalis - Western Redbud	294.31	
32 93 43 00-0042	EA	2-1/2" Caliper Cercis occidentalis - Western Redbud	606.19	
32 93 43 00-0043	EA	3" Caliper Cercis occidentalis - Western Redbud	737.97	
32 93 43 00-0044	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia	72.39	
32 93 43 00-0045	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia	108.58	
32 93 43 00-0046	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia	135.73	
32 93 43 00-0047	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia	169.05	
32 93 43 00-0048	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	286.48	
32 93 43 00-0049	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	381.97	
32 93 43 00-0050	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	496.57	
32 93 43 00-0051	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	553.86	
32 93 43 00-0052	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	668.45	
32 93 43 00-0053	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	744.85	
32 93 43 00-0054	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	286.48	
32 93 43 00-0055	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	381.97	
32 93 43 00-0056	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	496.57	
32 93 43 00-0057	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	553.86	
32 93 43 00-0058	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	668.45	
32 93 43 00-0059	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	744.85	
32 93 43 00-0060	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	6.52	
32 93 43 00-0061	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	27.59	
32 93 43 00-0062	EA	20 Gallon Prunus subhirtella - Flowering Cherry	376.75	
32 93 43 00-0063	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	389.45	
32 93 43 00-0064	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	486.76	
32 93 43 00-0065	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	1,015.82	
32 93 43 00-0066	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	782.92	
32 93 43 00-0067	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry	1,523.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0068	EA	5	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	97.31	
32 93 43 00-0069	EA	15	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	266.55	
32 93 43 00-0070	EA	20	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	347.14	
32 93 43 00-0071	EA	5'	To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	110.00	
32 93 43 00-0072	EA	6'	To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	211.55	
32 93 43 00-0073	EA	1-1/2"	To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	389.45	
32 93 43 00-0074	EA	2"	To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	465.60	
32 93 43 00-0075	EA	1-1/2"	To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	304.83	
32 93 43 00-0076	EA	1-1/4"	To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	253.86	
32 93 43 00-0077	EA	1-3/4"	To 2" Caliper Prunus subhirtella - Weeping Cherry.....	372.32	
32 93 43 00-0078	EA	2"	To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	444.45	
32 93 43 00-0079	EA	2-1/2"	To 3" Caliper Prunus subhirtella - Weeping Cherry.....	571.38	
32 93 43 00-0080	EA	15	Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	294.15	
32 93 43 00-0081	EA	20	Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	367.69	
32 93 43 00-0082	EA	1-1/2"	To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	382.39	
32 93 43 00-0083	EA	2"	To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	455.93	
32 93 43 00-0084	EA	2-1/2"	To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	617.71	
32 93 43 00-0085	EA	3"	To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	808.91	
32 93 43 00-0086	EA	3-1/2"	To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	1,029.52	
32 93 43 00-0087	EA	15	Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	294.15	
32 93 43 00-0088	EA	20	Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	367.69	
32 93 43 00-0089	EA	1-1/2"	To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	250.03	
32 93 43 00-0090	EA	2"	To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	382.39	
32 93 43 00-0091	EA	2-1/2"	To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	455.53	
32 93 43 00-0092	EA	3"	To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	617.71	
32 93 43 00-0093	EA	3-1/2"	To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	808.91	
32 93 43 00-0094	EA	1-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear.....	535.81	
32 93 43 00-0095	EA	2"	Caliper Pyrus calleryana & cvs - Callery Pear.....	669.76	
32 93 43 00-0096	EA	2-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear.....	830.50	
32 93 43 00-0097	EA	3"	Caliper Pyrus calleryana & cvs - Callery Pear.....	937.67	
32 93 43 00-0098	EA	3-1/2"	Caliper Pyrus calleryana & cvs - Callery Pear.....	1,044.83	
32 93 43 00-0099	EA	4"	Caliper Pyrus calleryana & cvs - Callery Pear.....	1,339.52	
32 93 43 00-0100	EA	1	Gallon Ribes aureum - Golden Currant.....	5.70	
32 93 43 00-0101	EA	5	Gallon Ribes aureum - Golden Currant.....	16.30	
32 93 43 00-0102	EA	1	Gallon Ribes sanguineum - Red Flowering Currant.....	5.70	
32 93 43 00-0103	EA	5	Gallon Ribes sanguineum - Red Flowering Currant.....	16.30	
32 93 43 00-0104	EA	1	Gallon Ribes viburnifolium - Evergreen Currant.....	5.70	
32 93 43 00-0105	EA	5	Gallon Ribes viburnifolium - Evergreen Currant.....	16.30	
32 93 43 00-0106	EA	8'	Cassia leptophlia - Gold Medallion Tree.....	391.22	
32 93 43 00-0107	EA	10'	Cassia leptophlia - Gold Medallion Tree.....	496.55	
32 93 43 00-0108	EA	12'	Cassia leptophlia - Gold Medallion Tree.....	601.88	
32 93 43 00-0109	EA	6'	Magnolia grandiflora 'St. Mary's'.....	451.41	
32 93 43 00-0110	EA	8'	Magnolia grandiflora 'St. Mary's'.....	797.49	
32 93 43 00-0111	EA	10'	Magnolia grandiflora 'St. Mary's'.....	1,002.13	
32 93 43 00-0112	EA	12'	Magnolia grandiflora 'St. Mary's'.....	1,203.76	
32 93 43 00-0113	EA	14'	Magnolia grandiflora 'St. Mary's'.....	1,399.37	
32 93 43 00-0114	EA	16'	Magnolia grandiflora 'St. Mary's'.....	1,655.17	
32 93 43 00-0115	EA	24"	Box Magnolia grandiflora 'St. Mary's'.....	496.55	
32 93 43 00-0116	EA	6'	Prunus cerasifera - Purple Leaf Plum.....	234.73	
32 93 43 00-0117	EA	8'	Prunus cerasifera - Purple Leaf Plum.....	270.85	
32 93 43 00-0118	EA	10'	Prunus cerasifera - Purple Leaf Plum.....	349.09	
32 93 43 00-0119	EA	24"	Box Prunus cerasifera - Purple Leaf Plum.....	371.66	
32 93 43 00-0120	EA	30"	Box Prunus cerasifera - Purple Leaf Plum.....	752.35	
32 93 43 00-0121	EA	36"	Box Prunus cerasifera - Purple Leaf Plum.....	1,154.10	
32 93 43 00-0122	EA	6'	Pittosporum phillyraeoides - Willow Pittorporum.....	490.53	
32 93 43 00-0123	EA	8'	Pittosporum phillyraeoides - Willow Pittorporum.....	701.19	
32 93 43 00-0124	EA	10'	Pittosporum phillyraeoides - Willow Pittorporum.....	839.62	
32 93 43 00-0125	EA	12'	Pittosporum phillyraeoides - Willow Pittorporum.....	1,083.38	
32 93 43 00-0126	EA	6'	Stenocarpus sinuatus - Firewheel Tree.....	722.26	
32 93 43 00-0127	EA	8'	Stenocarpus sinuatus - Firewheel Tree.....	963.01	
32 93 43 00-0128	EA	10'	Stenocarpus sinuatus - Firewheel Tree.....	1,203.76	
32 93 43 00-0129	EA	12'	Stenocarpus sinuatus - Firewheel Tree.....	1,444.51	
32 93 43 00-0130	EA	24"	Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	325.85	
32 93 43 00-0131	EA	36"	Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	943.25	
32 93 43 00-0132	EA	1-1/2"	Caliper Arbutus menziesii - Madrona.....	523.37	
32 93 43 00-0133	EA	2"	Caliper Arbutus menziesii - Madrona.....	680.39	
32 93 43 00-0134	EA	2-1/2"	Caliper Arbutus menziesii - Madrona.....	785.06	
32 93 43 00-0135	EA	3"	Caliper Arbutus menziesii - Madrona.....	889.74	
32 93 43 00-0136	EA	3-1/2"	Caliper Arbutus menziesii - Madrona.....	1,046.75	
32 93 43 00-0137	EA	1-1/2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	361.13	
32 93 43 00-0138	EA	2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	586.83	
32 93 43 00-0139	EA	2-1/2"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	722.26	
32 93 43 00-0140	EA	3"	Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	797.49	
32 93 43 00-0141	EA	24"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	352.10	
32 93 43 00-0142	EA	30"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	812.54	
32 93 43 00-0143	EA	36"	Box Koelreuteria bipinnata - Chinese Flame Tree.....	1,271.47	
32 93 43 00-0144	EA	1-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	328.02	
32 93 43 00-0145	EA	2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	532.66	
32 93 43 00-0146	EA	2-1/2"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	653.04	
32 93 43 00-0147	EA	3"	Cliber Koelreuteria paniculata - Golden Rain Tree.....	737.30	
32 93 43 00-0148	EA	6'	Magnolia grandiflora - Southern Magnolia.....	222.70	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0149	EA	7'	Magnolia grandiflora - Southern Magnolia	337.05	
32 93 43 00-0150	EA	8'	Magnolia grandiflora - Southern Magnolia	472.48	
32 93 43 00-0151	EA	9'	Magnolia grandiflora - Southern Magnolia	628.96	
32 93 43 00-0152	EA	10'	Magnolia grandiflora - Southern Magnolia	956.99	
32 93 43 00-0153	EA	24"	Box Magnolia grandiflora - Southern Magnolia	391.22	
32 93 43 00-0154	EA	1-1/2"	Caliper Tipuana tipu - Tipu Tree	466.46	
32 93 43 00-0155	EA	2"	Caliper Tipuana tipu - Tipu Tree	607.90	
32 93 43 00-0156	EA	2-1/2"	Caliper Tipuana tipu - Tipu Tree	770.41	
32 93 43 00-0157	EA	3"	Caliper Tipuana tipu - Tipu Tree	887.77	
32 93 43 00-0158	EA	3-1/2"	Caliper Tipuana tipu - Tipu Tree	1,306.08	
32 93 43 00-0159	EA	4"	Caliper Tipuana tipu - Tipu Tree	1,745.45	
32 93 43 00-0160	EA	24"	Box Tipuana tipu - Tipu Tree	352.10	
32 93 43 00-0161	EA	6'	Albizia julibrissin - Silk Tree	722.26	
32 93 43 00-0162	EA	8'	Albizia julibrissin - Silk Tree	963.01	
32 93 43 00-0163	EA	10'	Albizia julibrissin - Silk Tree	1,203.76	
32 93 43 00-0164	EA	12'	Albizia julibrissin - Silk Tree	1,444.51	
32 93 43 00-0165	EA	6'	Brachychiton acerifolius - Flame Tree	722.26	
32 93 43 00-0166	EA	8'	Brachychiton acerifolius - Flame Tree	963.01	
32 93 43 00-0167	EA	10'	Brachychiton acerifolius - Flame Tree	1,203.76	
32 93 43 00-0168	EA	12'	Brachychiton acerifolius - Flame Tree	1,444.51	
32 93 43 00-0169	EA	1-1/2"	Caliper Chilopsis linearis - Desert Willow	583.82	
32 93 43 00-0170	EA	2"	Caliper Chilopsis linearis - Desert Willow	701.19	
32 93 43 00-0171	EA	2-1/2"	Caliper Chilopsis linearis - Desert Willow	746.33	
32 93 43 00-0172	EA	3"	Caliper Chilopsis linearis - Desert Willow	827.58	
32 93 43 00-0173	EA	5 Gallon	Chionanthus retusus - Chinese Fringe Tree	30.09	
32 93 43 00-0174	EA	15 Gallon	Chionanthus retusus - Chinese Fringe Tree	120.38	
32 93 43 00-0175	EA	24"	Box Chionanthus retusus - Chinese Fringe Tree	601.88	
32 93 43 00-0176	EA	5 Gallon	Calodendrum capense - Cape Chestnut	45.14	
32 93 43 00-0177	EA	15 Gallon	Calodendrum capense - Cape Chestnut	180.56	
32 93 43 00-0178	EA	24"	Box Calodendrum capense - Cape Chestnut	677.12	
32 93 43 00-0179	EA	6'	Chionanthus virginicus - White Fringe Tree	361.13	
32 93 43 00-0180	EA	8'	Chionanthus virginicus - White Fringe Tree	614.98	
32 93 43 00-0181	EA	10'	Chionanthus virginicus - White Fringe Tree	856.58	
32 93 43 00-0182	EA	15 Gallon	Geijera parvifolia - Australian Willow	263.56	
32 93 43 00-0183	EA	24"	Box Geijera parvifolia - Australian Willow	542.50	
32 93 43 00-0184	EA	30"	Box Geijera parvifolia - Australian Willow	1,010.32	
32 93 43 00-0185	EA	36"	Box Geijera parvifolia - Australian Willow	1,449.59	
32 93 43 00-0186	EA	1-1/2"	Caliper Ginko Biloba - Maidenhair Tree	781.90	
32 93 43 00-0187	EA	2"	Caliper Ginko Biloba - Maidenhair Tree	1,089.39	
32 93 43 00-0188	EA	2-1/2"	Caliper Ginko Biloba - Maidenhair Tree	1,313.42	
32 93 43 00-0189	EA	3"	Caliper Ginko Biloba - Maidenhair Tree	1,533.05	
32 93 43 00-0190	EA	3-1/2"	Caliper Ginko Biloba - Maidenhair Tree	2,007.46	
32 93 43 00-0191	EA	4"	Caliper Ginko Biloba - Maidenhair Tree	2,143.64	
32 93 43 00-0192	EA	4-1/2"	Caliper Ginko Biloba - Maidenhair Tree	2,284.20	
32 93 43 00-0193	EA	24"	Box Ginko Biloba - Maidenhair Tree	713.81	
32 93 43 00-0194	EA	15 Gallon	Sapium sebiferum - Chinese Tallow Tree	263.56	
32 93 43 00-0195	EA	24"	Box Sapium sebiferum - Chinese Tallow Tree	966.39	
32 93 43 00-0196	EA	4' To 5'	Lagerstroemia indica - Crape Myrtle	281.13	
32 93 43 00-0197	EA	6'	Lagerstroemia indica - Crape Myrtle	522.73	
32 93 43 00-0198	EA	8'	Lagerstroemia indica - Crape Myrtle	540.30	
32 93 43 00-0199	EA	10'	Lagerstroemia indica - Crape Myrtle	654.51	
32 93 43 00-0200	EA	24"	Box Lagerstroemia indica - Crape Myrtle	513.95	
32 93 43 00-0201	EA	5 Gallon	Celtis Sinensis - Chinese Hackberry	44.16	
32 93 43 00-0202	EA	15 Gallon	Celtis Sinensis - Chinese Hackberry	116.42	
32 93 43 00-0203	EA	24"	Box Celtis Sinensis - Chinese Hackberry	381.37	
32 93 43 00-0204	EA	36"	Box Celtis Sinensis - Chinese Hackberry	1,114.00	
32 93 43 00-0205	EA	5 Gallon	Crataegus phaenopyrum - Washington Hawthorn	44.16	
32 93 43 00-0206	EA	15 Gallon	Crataegus phaenopyrum - Washington Hawthorn	116.42	
32 93 43 00-0207	EA	24"	Box Crataegus phaenopyrum - Washington Hawthorn	381.37	
32 93 43 00-0208	EA	36"	Box Crataegus phaenopyrum - Washington Hawthorn	1,114.00	
32 93 43 00-0209	EA	1 Gallon	Eucalyptus ficifolia - Red-Flowering Gum	13.05	
32 93 43 00-0210	EA	5 Gallon	Eucalyptus ficifolia - Red-Flowering Gum	36.13	
32 93 43 00-0211	EA	15 Gallon	Eucalyptus ficifolia - Red-Flowering Gum	158.57	
32 93 43 00-0212	EA	24"	Box Eucalyptus ficifolia - Red-Flowering Gum	381.37	
32 93 43 00-0213	EA	36"	Box Eucalyptus ficifolia - Red-Flowering Gum	1,003.60	
32 93 43 00-0214	EA	15 Gallon	Fraxinus velutina 'Raywood' - Fan-Tex Ash	98.35	
32 93 43 00-0215	EA	24"	Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	321.15	
32 93 43 00-0216	EA	36"	Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	853.06	
32 93 43 00-0217	EA	48"	Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	1,906.84	
32 93 43 00-0218	EA	5 Gallon	Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	28.10	
32 93 43 00-0219	EA	15 Gallon	Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	98.35	
32 93 43 00-0220	EA	24"	Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	321.15	
32 93 43 00-0221	EA	36"	Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	853.06	
32 93 43 00-0222	EA	48"	Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	1,906.84	
32 93 43 00-0223	EA	5 Gallon	Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	28.10	
32 93 43 00-0224	EA	15 Gallon	Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	118.42	
32 93 43 00-0225	EA	24"	Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	321.15	
32 93 43 00-0226	EA	36"	Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	903.24	
32 93 43 00-0227	EA	48"	Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	2,308.28	
32 93 43 00-0228	EA	5 Gallon	Liquidambar styraciflua 'Festival' - Festival Sweetgum	28.10	
32 93 43 00-0229	EA	15 Gallon	Liquidambar styraciflua 'Festival' - Festival Sweetgum	118.42	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0230	EA	24"	Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	321.15	
32 93 43 00-0231	EA	36"	Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	903.24	
32 93 43 00-0232	EA	48"	Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	2,308.28	
32 93 43 00-0233	EA	5	Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	28.10	
32 93 43 00-0234	EA	15	Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	118.42	
32 93 43 00-0235	EA	24"	Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	321.15	
32 93 43 00-0236	EA	36"	Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	903.24	
32 93 43 00-0237	EA	48"	Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	2,308.28	
32 93 43 00-0238	EA	1	Gallon Pittosporum undulatum - Victorian Box	11.15	
32 93 43 00-0239	EA	5	Gallon Pittosporum undulatum - Victorian Box	24.01	
32 93 43 00-0240	EA	15	Gallon Pittosporum undulatum - Victorian Box	135.48	
32 93 43 00-0241	EA	24"	Box Pittosporum undulatum - Victorian Box	325.85	
32 93 43 00-0242	EA	36"	Box Pittosporum undulatum - Victorian Box	943.25	
32 93 43 00-0243	EA	48"	Box Pittosporum undulatum - Victorian Box	2,143.75	
32 93 43 00-0244	EA	15	Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	100.26	
32 93 43 00-0245	EA	24"	Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	361.20	

32 93 43 00-0246

Deciduous Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA	3-1/2"	To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	233.37	
32 93 43 00-0248	EA	4"	To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	286.07	
32 93 43 00-0249	EA	4-1/2"	To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	372.65	
32 93 43 00-0250	EA	5"	To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	483.06	
32 93 43 00-0251	EA	2'	To 2-1/2' Acer palmatum - Japanese Maple	24.62	
32 93 43 00-0252	EA	4'	To 5' Acer palmatum - Japanese Maple	51.69	
32 93 43 00-0253	EA	5'	To 6' Acer palmatum - Japanese Maple	67.69	
32 93 43 00-0254	EA	6'	To 7' Acer palmatum - Japanese Maple	123.07	
32 93 43 00-0255	EA	7'	To 8' Acer palmatum - Japanese Maple	172.30	
32 93 43 00-0256	EA	8'	To 10' Acer palmatum - Japanese Maple	221.53	
32 93 43 00-0257	EA	10'	To 12' Acer palmatum - Japanese Maple	295.38	
32 93 43 00-0258	EA	2"	Caliper Acer platanoides & cvs - Norway Maple	125.47	
32 93 43 00-0259	EA	2"	Caliper Acer platanoides & cvs - Norway Maple	152.75	
32 93 43 00-0260	EA	3"	Caliper Acer platanoides & cvs - Norway Maple	196.39	
32 93 43 00-0261	EA	3-1/2"	Caliper Acer platanoides & cvs - Norway Maple	229.12	
32 93 43 00-0262	EA	4"	Caliper Acer platanoides & cvs - Norway Maple	245.48	
32 93 43 00-0263	EA	4-1/2"	Caliper Acer platanoides & cvs - Norway Maple	267.31	
32 93 43 00-0264	EA	5"	Caliper Acer platanoides & cvs - Norway Maple	300.04	
32 93 43 00-0265	EA	2"	Caliper Acer rubrum & cvs - Red Maple	120.01	
32 93 43 00-0266	EA	2-1/2"	Caliper Acer rubrum & cvs - Red Maple	152.75	
32 93 43 00-0267	EA	3"	Caliper Acer rubrum & cvs - Red Maple	196.39	
32 93 43 00-0268	EA	3-1/2"	Caliper Acer rubrum & cvs - Red Maple	240.03	
32 93 43 00-0269	EA	4"	Caliper Acer rubrum & cvs - Red Maple	272.76	
32 93 43 00-0270	EA	4-1/2"	Caliper Acer rubrum & cvs - Red Maple	316.40	
32 93 43 00-0271	EA	5"	Caliper Acer rubrum & cvs - Red Maple	354.59	
32 93 43 00-0272	EA	8'	Clump Form Acer rubrum & cvs - Red Maple	147.29	
32 93 43 00-0273	EA	10'	Clump Form Acer rubrum & cvs - Red Maple	196.39	
32 93 43 00-0274	EA	12'	Clump Form Acer rubrum & cvs - Red Maple	229.12	
32 93 43 00-0275	EA	14'	Clump Form Acer rubrum & cvs - Red Maple	261.85	
32 93 43 00-0276	EA	16'	Clump Form Acer rubrum & cvs - Red Maple	294.58	
32 93 43 00-0277	EA	18'	Clump Form Acer rubrum & cvs - Red Maple	327.31	
32 93 43 00-0278	EA	2"	Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	190.93	
32 93 43 00-0279	EA	2-1/2"	Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	212.75	
32 93 43 00-0280	EA	3"	Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	240.03	
32 93 43 00-0281	EA	3-1/2"	Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	272.76	
32 93 43 00-0282	EA	4"	Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	327.31	
32 93 43 00-0283	EA	2"	Caliper Betula nigra - River Birch	136.38	
32 93 43 00-0284	EA	2-1/2"	Caliper Betula nigra - River Birch	154.44	
32 93 43 00-0285	EA	3"	Caliper Betula nigra - River Birch	174.57	
32 93 43 00-0286	EA	3-1/2"	Caliper Betula nigra - River Birch	218.21	
32 93 43 00-0287	EA	4"	Caliper Betula nigra - River Birch	245.48	
32 93 43 00-0288	EA	4-1/2"	Caliper Betula nigra - River Birch	272.76	
32 93 43 00-0289	EA	5"	Caliper Betula nigra - River Birch	300.04	
32 93 43 00-0290	EA	8'	Clump Form Betula nigra - River Birch	125.47	
32 93 43 00-0291	EA	10'	Clump Form Betula nigra - River Birch	141.84	
32 93 43 00-0292	EA	12'	Clump Form Betula nigra - River Birch	163.66	
32 93 43 00-0293	EA	14'	Clump Form Betula nigra - River Birch	190.93	
32 93 43 00-0294	EA	16'	Clump Form Betula nigra - River Birch	218.21	
32 93 43 00-0295	EA	12'	Clump Form Betula platyphylla japonica & cvs - Asian White Birch	163.66	
32 93 43 00-0296	EA	14'	Clump Form Betula platyphylla japonica & cvs - Asian White Birch	196.39	
32 93 43 00-0297	EA	16'	Clump Form Betula platyphylla japonica & cvs - Asian White Birch	229.12	
32 93 43 00-0298	EA	18'	Clump Form Betula platyphylla japonica & cvs - Asian White Birch	272.76	
32 93 43 00-0299	EA	20'	Clump Form Betula platyphylla japonica & cvs - Asian White Birch	283.67	
32 93 43 00-0300	EA	2"	Caliper Carpinus betulus & cvs - European Hornbeam	218.21	
32 93 43 00-0301	EA	2-1/2"	Caliper Carpinus betulus & cvs - European Hornbeam	245.48	
32 93 43 00-0302	EA	3"	Caliper Carpinus betulus & cvs - European Hornbeam	283.67	
32 93 43 00-0303	EA	3-1/2"	Caliper Carpinus betulus & cvs - European Hornbeam	343.68	
32 93 43 00-0304	EA	6'	Clump Form Carpinus betulus & cvs - European Hornbeam	98.19	
32 93 43 00-0305	EA	7'	Clump Form Carpinus betulus & cvs - European Hornbeam	136.38	
32 93 43 00-0306	EA	8'	Clump Form Carpinus betulus & cvs - European Hornbeam	169.11	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0307	EA	2"	Caliper Catalpa speciosa - Western Catalpa	120.01	
32 93 43 00-0308	EA	2-1/2"	Caliper Catalpa speciosa - Western Catalpa	163.66	
32 93 43 00-0309	EA	3"	Caliper Catalpa speciosa - Western Catalpa	212.75	
32 93 43 00-0310	EA	3-1/2"	Caliper Catalpa speciosa - Western Catalpa	256.40	
32 93 43 00-0311	EA	4"	Caliper Catalpa speciosa - Western Catalpa	294.58	
32 93 43 00-0312	EA	8'	Clump Form Corylus cornuta californica - Western Filbert	152.75	
32 93 43 00-0313	EA	10'	Clump Form Corylus cornuta californica - Western Filbert	185.48	
32 93 43 00-0314	EA	12'	Clump Form Corylus cornuta californica - Western Filbert	218.21	
32 93 43 00-0315	EA	1-1/2"	Caliper Diospyros - Persimmon	98.19	
32 93 43 00-0316	EA	2"	Caliper Diospyros - Persimmon	120.01	
32 93 43 00-0317	EA	2-1/2"	Caliper Diospyros - Persimmon	152.75	
32 93 43 00-0318	EA	3"	Caliper Diospyros - Persimmon	190.93	
32 93 43 00-0319	EA	3-1/2"	Caliper Diospyros - Persimmon	229.12	
32 93 43 00-0320	EA	2"	Caliper Fagus sylvatica & cvs - European Beech	245.48	
32 93 43 00-0321	EA	2-1/2"	Caliper Fagus sylvatica & cvs - European Beech	294.58	
32 93 43 00-0322	EA	3"	Caliper Fagus sylvatica & cvs - European Beech	354.59	
32 93 43 00-0323	EA	3-1/2"	Caliper Fagus sylvatica & cvs - European Beech	392.78	
32 93 43 00-0324	EA	4"	Caliper Fagus sylvatica & cvs - European Beech	463.69	
32 93 43 00-0325	EA	4-1/2"	Caliper Fagus sylvatica & cvs - European Beech	600.07	
32 93 43 00-0326	EA	5"	Caliper Fagus sylvatica & cvs - European Beech	709.18	
32 93 43 00-0327	EA	2"	Caliper Fraxinus americana & cvs - White Ash	136.38	
32 93 43 00-0328	EA	2-1/2"	Caliper Fraxinus americana & cvs - White Ash	163.66	
32 93 43 00-0329	EA	3"	Caliper Fraxinus americana & cvs - White Ash	207.30	
32 93 43 00-0330	EA	3-1/2"	Caliper Fraxinus americana & cvs - White Ash	250.94	
32 93 43 00-0331	EA	4"	Caliper Fraxinus americana & cvs - White Ash	294.58	
32 93 43 00-0332	EA	4-1/2"	Caliper Fraxinus americana & cvs - White Ash	327.31	
32 93 43 00-0333	EA	5"	Caliper Fraxinus americana & cvs - White Ash	381.87	
32 93 43 00-0334	EA	1-1/2"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	190.93	
32 93 43 00-0335	EA	2"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	212.75	
32 93 43 00-0336	EA	2-1/2"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	240.03	
32 93 43 00-0337	EA	3"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	267.31	
32 93 43 00-0338	EA	3-1/2"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	300.04	
32 93 43 00-0339	EA	4"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	327.31	
32 93 43 00-0340	EA	4-1/2"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	490.97	
32 93 43 00-0341	EA	5"	Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	545.52	
32 93 43 00-0342	EA	2"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	130.93	
32 93 43 00-0343	EA	2-1/2"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	163.66	
32 93 43 00-0344	EA	3"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	196.39	
32 93 43 00-0345	EA	3-1/2"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	229.12	
32 93 43 00-0346	EA	4"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	261.85	
32 93 43 00-0347	EA	4-1/2"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	294.58	
32 93 43 00-0348	EA	5"	Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	349.13	
32 93 43 00-0349	EA	10' - 12'	Bursera Simaruba - Gumbo Limbo	69.01	
32 93 43 00-0350	EA	12' - 14'	Bursera Simaruba - Gumbo Limbo	81.56	
32 93 43 00-0351	EA	14' - 16'	Bursera Simaruba - Gumbo Limbo	112.92	
32 93 43 00-0352	EA	17' - 18'	Bursera Simaruba - Gumbo Limbo	146.80	
32 93 43 00-0353	EA	19' - 20'	Bursera Simaruba - Gumbo Limbo	163.11	
32 93 43 00-0354	EA	21' - 22'	Bursera Simaruba - Gumbo Limbo	193.22	
32 93 43 00-0355	EA	1-1/2"	Caliper Juglans californica - California Walnut	130.93	
32 93 43 00-0356	EA	2"	Caliper Juglans californica - California Walnut	152.75	
32 93 43 00-0357	EA	2-1/2"	Caliper Juglans californica - California Walnut	190.93	
32 93 43 00-0358	EA	3"	Caliper Juglans californica - California Walnut	240.03	
32 93 43 00-0359	EA	3-1/2"	Caliper Juglans californica - California Walnut	294.58	
32 93 43 00-0360	EA	4"	Caliper Juglans californica - California Walnut	354.59	
32 93 43 00-0361	EA	4-1/2"	Caliper Juglans californica - California Walnut	409.14	
32 93 43 00-0362	EA	5"	Caliper Juglans californica - California Walnut	463.69	
32 93 43 00-0363	EA	5 Gallon	Koelreuteria Paniculata - Goldenrain Tree	14.77	
32 93 43 00-0364	EA	15 Gallon	Koelreuteria Paniculata - Goldenrain Tree	36.92	
32 93 43 00-0365	EA	20 Gallon	Koelreuteria Paniculata - Goldenrain Tree	73.84	
32 93 43 00-0366	EA	55 Gallon	Koelreuteria Paniculata - Goldenrain Tree	96.00	
32 93 43 00-0367	EA	1-1/2"	To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	70.15	
32 93 43 00-0368	EA	2"	To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	84.92	
32 93 43 00-0369	EA	2-1/2"	To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	118.15	
32 93 43 00-0370	EA	1-1/2"	Caliper Liquidambar styraciflua - American Sweetgum	174.57	
32 93 43 00-0371	EA	2"	Caliper Liquidambar styraciflua - American Sweetgum	218.21	
32 93 43 00-0372	EA	2-1/2"	Caliper Liquidambar styraciflua - American Sweetgum	272.76	
32 93 43 00-0373	EA	3"	Caliper Liquidambar styraciflua - American Sweetgum	327.31	
32 93 43 00-0374	EA	3-1/2"	Caliper Liquidambar styraciflua - American Sweetgum	381.87	
32 93 43 00-0375	EA	1-1/2"	Caliper Liriodendron tulipifera - Tulip Tree	174.57	
32 93 43 00-0376	EA	2"	Caliper Liriodendron tulipifera - Tulip Tree	240.03	
32 93 43 00-0377	EA	2-1/2"	Caliper Liriodendron tulipifera - Tulip Tree	283.67	
32 93 43 00-0378	EA	3"	Caliper Liriodendron tulipifera - Tulip Tree	327.31	
32 93 43 00-0379	EA	3-1/2"	Caliper Liriodendron tulipifera - Tulip Tree	370.95	
32 93 43 00-0380	EA	8'	Clump Form Liriodendron tulipifera - Tulip Tree	130.93	
32 93 43 00-0381	EA	10'	Clump Form Liriodendron tulipifera - Tulip Tree	234.57	
32 93 43 00-0382	EA	12'	Clump Form Liriodendron tulipifera - Tulip Tree	283.67	
32 93 43 00-0383	EA	1-1/2"	Caliper Nyssa sylvatica - Black Tupelo Sour Gum	174.57	
32 93 43 00-0384	EA	2"	Caliper Nyssa sylvatica - Black Tupelo Sour Gum	218.21	
32 93 43 00-0385	EA	2-1/2"	Caliper Nyssa sylvatica - Black Tupelo Sour Gum	272.76	
32 93 43 00-0386	EA	3"	Caliper Nyssa sylvatica - Black Tupelo Sour Gum	327.31	
32 93 43 00-0387	EA	3-1/2"	Caliper Nyssa sylvatica - Black Tupelo Sour Gum	381.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0388	EA		4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	76.37	
32 93 43 00-0389	EA		5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	87.28	
32 93 43 00-0390	EA		6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	103.65	
32 93 43 00-0391	EA		7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	130.93	
32 93 43 00-0392	EA		8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	163.66	
32 93 43 00-0393	EA		30" Box Platanus Occidentalis - Buttonwood Sycamore.....	237.00	
32 93 43 00-0394	EA		36" Box Platanus Occidentalis - Buttonwood Sycamore.....	344.73	
32 93 43 00-0395	EA		42" Box Platanus occidentalis - Buttonwood Sycamore.....	512.81	
32 93 43 00-0396	EA		1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	79.30	
32 93 43 00-0397	EA		2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	94.81	
32 93 43 00-0398	EA		2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	129.27	
32 93 43 00-0399	EA		3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	156.88	
32 93 43 00-0400	EA		8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	65.24	
32 93 43 00-0401	EA		10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	81.56	
32 93 43 00-0402	EA		12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	144.29	
32 93 43 00-0403	EA		16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	207.03	
32 93 43 00-0404	EA		2" Caliper Platanus x acerifolia & cvs - London Planetree.....	130.93	
32 93 43 00-0405	EA		2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	158.20	
32 93 43 00-0406	EA		3" Caliper Platanus x acerifolia & cvs - London Planetree.....	190.93	
32 93 43 00-0407	EA		3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	229.12	
32 93 43 00-0408	EA		4" Caliper Platanus x acerifolia & cvs - London Planetree.....	272.76	
32 93 43 00-0409	EA		2" Caliper Populus alba & cvs - White Poplar.....	130.93	
32 93 43 00-0410	EA		2-1/2" Caliper Populus alba & cvs - White Poplar.....	152.75	
32 93 43 00-0411	EA		3" Caliper Populus alba & cvs - White Poplar.....	174.57	
32 93 43 00-0412	EA		3-1/2" Caliper Populus alba & cvs - White Poplar.....	207.30	
32 93 43 00-0413	EA		4" Caliper Populus alba & cvs - White Poplar.....	229.12	
32 93 43 00-0414	EA		4-1/2" Caliper Populus alba & cvs - White Poplar.....	261.85	
32 93 43 00-0415	EA		2" Caliper Populus deltooides & cvs - Eastern Cottonwood.....	120.01	
32 93 43 00-0416	EA		2-1/2" Caliper Populus deltooides & cvs - Eastern Cottonwood.....	158.20	
32 93 43 00-0417	EA		3" Caliper Populus deltooides & cvs - Eastern Cottonwood.....	190.93	
32 93 43 00-0418	EA		3-1/2" Caliper Populus deltooides & cvs - Eastern Cottonwood.....	229.12	
32 93 43 00-0419	EA		4" Caliper Populus deltooides & cvs - Eastern Cottonwood.....	272.76	
32 93 43 00-0420	EA		2" Caliper Quercus palustris - Pin Oak.....	120.01	
32 93 43 00-0421	EA		2-1/2" Caliper Quercus palustris - Pin Oak.....	163.66	
32 93 43 00-0422	EA		3" Caliper Quercus palustris - Pin Oak.....	212.75	
32 93 43 00-0423	EA		3-1/2" Caliper Quercus palustris - Pin Oak.....	245.48	
32 93 43 00-0424	EA		4" Caliper Quercus palustris - Pin Oak.....	283.67	
32 93 43 00-0425	EA		4-1/2" Caliper Quercus palustris - Pin Oak.....	321.86	
32 93 43 00-0426	EA		5" Caliper Quercus palustris - Pin Oak.....	354.59	
32 93 43 00-0427	EA		2" Caliper Quercus shumardii - Shumard Oak.....	185.48	
32 93 43 00-0428	EA		2-1/2" Caliper Quercus shumardii - Shumard Oak.....	234.57	
32 93 43 00-0429	EA		3" Caliper Quercus shumardii - Shumard Oak.....	272.76	
32 93 43 00-0430	EA		3-1/2" Caliper Quercus shumardii - Shumard Oak.....	327.31	
32 93 43 00-0431	EA		4" Caliper Quercus shumardii - Shumard Oak.....	381.87	
32 93 43 00-0432	EA		4-1/2" Caliper Quercus shumardii - Shumard Oak.....	436.42	
32 93 43 00-0433	EA		5" Caliper Quercus shumardii - Shumard Oak.....	490.97	
32 93 43 00-0434	EA		24" Box Salix babylonica - Weeping Willow.....	137.89	
32 93 43 00-0435	EA		36" Box Salix babylonica - Weeping Willow.....	344.73	
32 93 43 00-0436	EA		1-1/2" To 2" Caliper Salix babylonica - Weeping Willow.....	79.30	
32 93 43 00-0437	EA		2" To 2-1/2" Caliper Salix babylonica - Weeping Willow.....	94.81	
32 93 43 00-0438	EA		2-1/2" To 3" Caliper Salix babylonica - Weeping Willow.....	103.42	
32 93 43 00-0439	EA		2' Thuja occidentalis - American Arborvitae.....	18.70	
32 93 43 00-0440	EA		2-1/2' Thuja occidentalis - American Arborvitae.....	20.20	
32 93 43 00-0441	EA		3' Thuja occidentalis - American Arborvitae.....	28.86	
32 93 43 00-0442	EA		4' Thuja occidentalis - American Arborvitae.....	39.65	
32 93 43 00-0443	EA		5' Thuja occidentalis - American Arborvitae.....	55.21	
32 93 43 00-0444	EA		6' Thuja occidentalis - American Arborvitae.....	76.54	
32 93 43 00-0445	EA		7' Thuja occidentalis - American Arborvitae.....	92.85	
32 93 43 00-0446	EA		8' Thuja occidentalis - American Arborvitae.....	130.49	
32 93 43 00-0447	EA		2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	137.20	
32 93 43 00-0448	EA		2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	165.73	
32 93 43 00-0449	EA		3" Caliper Tilia cordata & cvs - Littleleaf Linden.....	190.93	
32 93 43 00-0450	EA		3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	234.57	
32 93 43 00-0451	EA		4" Caliper Tilia cordata & cvs - Littleleaf Linden.....	267.31	
32 93 43 00-0452	EA		4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	300.04	
32 93 43 00-0453	EA		5" Caliper Tilia cordata & cvs - Littleleaf Linden.....	332.77	
32 93 43 00-0454	EA		2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	152.75	
32 93 43 00-0455	EA		2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	174.57	
32 93 43 00-0456	EA		3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	190.93	
32 93 43 00-0457	EA		3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	207.30	
32 93 43 00-0458	EA		4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	229.12	
32 93 43 00-0459	EA		4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	272.76	
32 93 43 00-0460	EA		5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	321.86	
32 93 43 00-0461	EA		2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	174.57	
32 93 43 00-0462	EA		2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	190.93	
32 93 43 00-0463	EA		3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	207.30	
32 93 43 00-0464	EA		3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	229.12	
32 93 43 00-0465	EA		4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	272.76	
32 93 43 00-0466	EA		4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	321.86	
32 93 43 00-0467	EA		5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	370.95	
32 93 43 00-0468	EA		2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	174.57	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0469	EA	2-1/2"	Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	190.93	
32 93 43 00-0470	EA	3"	Caliper Ulmus x 'Regal' - Regal Hybrid Elm	207.30	
32 93 43 00-0471	EA	3-1/2"	Caliper Ulmus x 'Regal' - Regal Hybrid Elm	229.12	
32 93 43 00-0472	EA	4"	Caliper Ulmus x 'Regal' - Regal Hybrid Elm	272.76	
32 93 43 00-0473	EA	4-1/2"	Caliper Ulmus x 'Regal' - Regal Hybrid Elm	321.86	
32 93 43 00-0474	EA	5"	Caliper Ulmus x 'Regal' - Regal Hybrid Elm	370.95	
32 93 43 00-0475	EA	1-1/2" To 2"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	408.52	
32 93 43 00-0476	EA	2" To 2-1/2"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	729.19	
32 93 43 00-0477	EA	2-1/2" To 3"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,067.43	
32 93 43 00-0478	EA	3" To 3-1/2"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,326.60	
32 93 43 00-0479	EA	3-1/2" To 4"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,717.55	
32 93 43 00-0480	EA	4" To 5"	Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,954.75	
32 93 43 00-0481	EA	24"	Box Platanus acerifolia "Bloodgold" - London Plane	513.95	
32 93 43 00-0482	EA	1-1/2"	Caliper Quercus suber - Cork Oak	614.98	
32 93 43 00-0483	EA	2"	Caliper Quercus suber - Cork Oak	852.18	
32 93 43 00-0484	EA	2-1/2"	Caliper Quercus suber - Cork Oak	1,089.39	
32 93 43 00-0485	EA	3"	Caliper Quercus suber - Cork Oak	1,361.74	
32 93 43 00-0486	EA	3-1/2"	Caliper Quercus suber - Cork Oak	2,042.61	
32 93 43 00-0487	EA	4"	Caliper Quercus suber - Cork Oak	2,635.62	
32 93 43 00-0488	EA	4-1/2"	Caliper Quercus suber - Cork Oak	3,426.31	
32 93 43 00-0489	EA	1-1/2"	Caliper Quercus ilex - Holly Oak	680.87	
32 93 43 00-0490	EA	2"	Caliper Quercus ilex - Holly Oak.....	918.07	
32 93 43 00-0491	EA	2-1/2"	Caliper Quercus ilex - Holly Oak	1,124.53	
32 93 43 00-0492	EA	3"	Caliper Quercus ilex - Holly Oak.....	1,361.74	
32 93 43 00-0493	EA	3-1/2"	Caliper Quercus ilex - Holly Oak	2,042.61	
32 93 43 00-0494	EA	4"	Caliper Quercus ilex - Holly Oak.....	2,635.62	

32 93 43 00-0495**Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496	EA	2' To 3'	Cedrus atlantica - Blue Atlas Cedar	24.03	
32 93 43 00-0497	EA	3' To 4'	Cedrus atlantica - Blue Atlas Cedar	38.62	
32 93 43 00-0498	EA	4' To 5'	Cedrus atlantica - Blue Atlas Cedar	57.38	
32 93 43 00-0499	EA	5' To 6'	Cedrus atlantica - Blue Atlas Cedar	77.20	
32 93 43 00-0500	EA	7' To 8'	Cedrus atlantica - Blue Atlas Cedar	109.60	
32 93 43 00-0501	EA	6' To 8'	Cedrus deodara - Indian Cedar	99.17	
32 93 43 00-0502	EA	8' To 10'	Cedrus deodara - Indian Cedar	114.82	
32 93 43 00-0503	EA	10' To 12'	Cedrus deodara - Indian Cedar	156.55	
32 93 43 00-0504	EA	12' To 14'	Cedrus deodara - Indian Cedar	203.50	
32 93 43 00-0505	EA	14' To 16'	Cedrus deodara - Indian Cedar	260.93	
32 93 43 00-0506	EA	15" To 18"	Chamaecyparis obtusa - Compact Hinoki Cypress	31.00	
32 93 43 00-0507	EA	18" To 24"	Chamaecyparis obtusa - Compact Hinoki Cypress	46.50	
32 93 43 00-0508	EA	2' To 3'	Chamaecyparis obtusa - Compact Hinoki Cypress	72.33	
32 93 43 00-0509	EA	3' To 4'	Chamaecyparis obtusa - Compact Hinoki Cypress	124.00	
32 93 43 00-0510	EA	5 Gallon	Cupressocyparis leylandii - Leyland Cypress	17.05	
32 93 43 00-0511	EA	15 Gallon	Cupressocyparis leylandii - Leyland Cypress	68.22	
32 93 43 00-0512	EA	4' To 5'	Cupressocyparis leylandii - Leyland Cypress	29.85	
32 93 43 00-0513	EA	5' To 6'	Cupressocyparis leylandii - Leyland Cypress	38.37	
32 93 43 00-0514	EA	6' To 7'	Cupressocyparis leylandii - Leyland Cypress	59.69	
32 93 43 00-0515	EA	24"	Box Cupressocyparis leylandii - Leyland Cypress	144.96	
32 93 43 00-0516	EA	1 Gallon	Cupressus macrocarpa - Monterey Cypress	3.11	
32 93 43 00-0517	EA	5 Gallon	Cupressus macrocarpa - Monterey Cypress	14.00	
32 93 43 00-0518	EA	15 Gallon	Cupressus macrocarpa - Monterey Cypress	46.65	
32 93 43 00-0519	EA	5 Gallon	Cupressus sempervirens - Italian Cypress	16.05	
32 93 43 00-0520	EA	15 Gallon	Cupressus sempervirens - Italian Cypress	44.14	
32 93 43 00-0521	EA	1 Gallon	Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	4.72	
32 93 43 00-0522	EA	2 Gallon	Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.23	
32 93 43 00-0523	EA	3 Gallon	Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	11.44	
32 93 43 00-0524	EA	5 Gallon	Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	13.44	
32 93 43 00-0525	EA	1 Gallon	Juniperus - Blue Sargent Juniper	4.72	
32 93 43 00-0526	EA	2 Gallon	Juniperus - Blue Sargent Juniper	9.23	
32 93 43 00-0527	EA	3 Gallon	Juniperus - Blue Sargent Juniper	11.44	
32 93 43 00-0528	EA	5 Gallon	Juniperus - Blue Sargent Juniper	13.44	
32 93 43 00-0529	EA	5 Gallon	Juniperus - Compact Pfitzer Juniper	13.44	
32 93 43 00-0530	EA	15" To 18"	Juniperus - Compact Pfitzer Juniper	14.55	
32 93 43 00-0531	EA	18" To 24"	Juniperus - Compact Pfitzer Juniper	17.56	
32 93 43 00-0532	EA	2' To 2 1/2'	Juniperus - Compact Pfitzer Juniper	26.08	
32 93 43 00-0533	EA	2-1/2' To 3'	Juniperus - Compact Pfitzer Juniper	30.20	
32 93 43 00-0534	EA	5' To 6'	Juniperus - Fairview Juniper	44.98	
32 93 43 00-0535	EA	1 Gallon	Juniperus - Hollywood Juniper	6.02	
32 93 43 00-0536	EA	5 Gallon	Juniperus - Hollywood Juniper	16.75	
32 93 43 00-0537	EA	15 Gallon	Juniperus - Hollywood Juniper	71.03	
32 93 43 00-0538	EA	4' To 5'	Juniperus - Hollywood Juniper	46.95	
32 93 43 00-0539	EA	5' To 6'	Juniperus - Hollywood Juniper	60.49	
32 93 43 00-0540	EA	1 Gallon	Juniperus - Parson's Juniper	4.72	
32 93 43 00-0541	EA	2 Gallon	Juniperus - Parson's Juniper	9.33	
32 93 43 00-0542	EA	3 Gallon	Juniperus - Parson's Juniper	11.54	
32 93 43 00-0543	EA	5 Gallon	Juniperus - Parson's Juniper	13.64	
32 93 43 00-0544	EA	5 Gallon	Juniperus - Skyrocket Juniper	16.85	
32 93 43 00-0545	EA	15 Gallon	Juniperus - Skyrocket Juniper	71.73	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-0546	EA 2' To 3' Juniperus - Skyrocket Juniper	25.28	
32 93 43 00-0547	EA 3' To 4' Juniperus - Skyrocket Juniper	35.81	
32 93 43 00-0548	EA 4' To 5' Juniperus - Skyrocket Juniper	47.45	
32 93 43 00-0549	EA 5' To 6' Juniperus - Skyrocket Juniper	61.20	
32 93 43 00-0550	EA 6' To 8' Juniperus - Skyrocket Juniper	79.05	
32 93 43 00-0551	EA 1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	4.72	
32 93 43 00-0552	EA 2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.28	
32 93 43 00-0553	EA 3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	11.39	
32 93 43 00-0554	EA 5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	13.49	
32 93 43 00-0555	EA 1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	4.72	
32 93 43 00-0556	EA 2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.28	
32 93 43 00-0557	EA 3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	11.39	
32 93 43 00-0558	EA 5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	13.49	
32 93 43 00-0559	EA 3' Pinus sylvestris - Scotch Pine	43.82	
32 93 43 00-0560	EA 4' Pinus sylvestris - Scotch Pine	60.83	
32 93 43 00-0561	EA 5' Pinus sylvestris - Scotch Pine	85.38	
32 93 43 00-0562	EA 6' Pinus sylvestris - Scotch Pine	118.46	
32 93 43 00-0563	EA 7' Pinus sylvestris - Scotch Pine	145.14	
32 93 43 00-0564	EA 8' Pinus sylvestris - Scotch Pine	204.90	
32 93 43 00-0565	EA 9' Pinus sylvestris - Scotch Pine	260.13	
32 93 43 00-0566	EA 10' Pinus sylvestris - Scotch Pine	300.15	
32 93 43 00-0567	EA 12' Pinus sylvestris - Scotch Pine	353.51	
32 93 43 00-0568	EA 14' Pinus sylvestris - Scotch Pine	400.20	
32 93 43 00-0569	EA 16' Pinus sylvestris - Scotch Pine	466.90	
32 93 43 00-0570	EA 1 Gallon Pinus thunbergiana - Japanese Black Pine	4.72	
32 93 43 00-0571	EA 5 Gallon Pinus thunbergiana - Japanese Black Pine	16.75	
32 93 43 00-0572	EA 15 Gallon Pinus thunbergiana - Japanese Black Pine	54.27	
32 93 43 00-0573	EA 2' To 3' Pinus thunbergiana - Japanese Black Pine	22.97	
32 93 43 00-0574	EA 3' To 4' Pinus thunbergiana - Japanese Black Pine	29.19	
32 93 43 00-0575	EA 4' To 5' Pinus thunbergiana - Japanese Black Pine	43.84	
32 93 43 00-0576	EA 5' To 6' Pinus thunbergiana - Japanese Black Pine	85.57	
32 93 43 00-0577	EA 6' To 7' Pinus Thunbergiana - Japanese Black Pine	96.01	
32 93 43 00-0578	EA 7' To 8' Pinus thunbergiana - Japanese Black Pine	119.98	
32 93 43 00-0579	EA 6' Pinus flexilis & cvs - Limber Pine	166.75	
32 93 43 00-0580	EA 7' Pinus flexilis & cvs - Limber Pine	193.43	
32 93 43 00-0581	EA 8' Pinus flexilis & cvs - Limber Pine	240.12	
32 93 43 00-0582	EA 9' Pinus flexilis & cvs - Limber Pine	293.48	
32 93 43 00-0583	EA 10' Pinus flexilis & cvs - Limber Pine	333.50	
32 93 43 00-0584	EA 1 Gallon Pinus mugo - Mugho Pine	6.22	
32 93 43 00-0585	EA 2 Gallon Pinus mugo - Mugho Pine	13.14	
32 93 43 00-0586	EA 3 Gallon Pinus mugo - Mugho Pine	16.45	
32 93 43 00-0587	EA 5 Gallon Pinus mugo - Mugho Pine	20.87	
32 93 43 00-0588	EA 12" To 15" Spread Pinus mugo - Mugho Pine	16.15	
32 93 43 00-0589	EA 15" To 18" Spread Pinus mugo - Mugho Pine	19.26	
32 93 43 00-0590	EA 18" To 24" Spread Pinus mugo - Mugho Pine	26.08	
32 93 43 00-0591	EA 2' To 2-1/2' Spread Pinus mugo - Mugho Pine	36.52	
32 93 43 00-0592	EA 2-1/2' To 3' Spread Pinus mugo - Mugho Pine	46.95	
32 93 43 00-0593	EA 3' To 3-1/2' Spread Pinus mugo - Mugho Pine	58.49	
32 93 43 00-0594	EA 3-1/2' To 4' Spread Pinus mugo - Mugho Pine	71.03	
32 93 43 00-0595	EA 6' Pinus nigra - Austrian Pine	166.75	
32 93 43 00-0596	EA 7' Pinus nigra - Austrian Pine	200.10	
32 93 43 00-0597	EA 8' Pinus nigra - Austrian Pine	260.13	
32 93 43 00-0598	EA 9' Pinus nigra - Austrian Pine	300.15	
32 93 43 00-0599	EA 10' Pinus nigra - Austrian Pine	353.51	
32 93 43 00-0600	EA 12' Pinus nigra - Austrian Pine	400.20	
32 93 43 00-0601	EA 14' Pinus nigra - Austrian Pine	446.89	
32 93 43 00-0602	EA 16' Pinus nigra - Austrian Pine	506.92	
32 93 43 00-0603	EA 1 Gallon Podocarpus - Chinese Podocarpus	3.11	
32 93 43 00-0604	EA 3 Gallon Podocarpus - Chinese Podocarpus	7.22	
32 93 43 00-0605	EA 7 Gallon Podocarpus - Chinese Podocarpus	20.87	
32 93 43 00-0606	EA 15 Gallon Podocarpus - Chinese Podocarpus	33.91	
32 93 43 00-0607	EA 4' To 5' Podocarpus - Chinese Podocarpus	52.17	
32 93 43 00-0608	EA 5' To 6' Sequoia sempervirens - Dawn Redwood	65.21	
32 93 43 00-0609	EA 6' To 8' Sequoia sempervirens - Dawn Redwood	88.03	
32 93 43 00-0610	EA 8' To 10' Sequoia sempervirens - Dawn Redwood	107.60	
32 93 43 00-0611	EA 3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	12.57	
32 93 43 00-0612	EA 3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	23.54	
32 93 43 00-0613	EA 6' Cedrus decurrens - Incense Cedar	111.99	
32 93 43 00-0614	EA 8' Cedrus decurrens - Incense Cedar	231.65	
32 93 43 00-0615	EA 10' Cedrus decurrens - Incense Cedar	306.82	
32 93 43 00-0616	EA 12' Cedrus decurrens - Incense Cedar	406.54	
32 93 43 00-0617	EA 6' Melaleuca linariifolia - Flaxleaf Paperbark	322.16	
32 93 43 00-0618	EA 8' Melaleuca linariifolia - Flaxleaf Paperbark	429.55	
32 93 43 00-0619	EA 10' Melaleuca linariifolia - Flaxleaf Paperbark	536.94	
32 93 43 00-0620	EA 12' Melaleuca linariifolia - Flaxleaf Paperbark	644.32	
32 93 43 00-0621	EA 24" Box Melaleuca linariifolia - Flaxleaf Paperbark	319.09	
32 93 43 00-0622	EA 6' Melaleuca quinquenervia - Cajeput Tree	322.16	
32 93 43 00-0623	EA 8' Melaleuca quinquenervia - Cajeput Tree	429.55	
32 93 43 00-0624	EA 10' Melaleuca quinquenervia - Cajeput Tree	536.94	
32 93 43 00-0625	EA 12' Melaleuca quinquenervia - Cajeput Tree	644.32	
32 93 43 00-0626	EA 24" Box Melaleuca quinquenervia - Cajeput Tree	179.49	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0627	EA		30" Box Melaleuca quinquenervia - Cajeput Tree.....	452.56	
32 93 43 00-0628	EA		36" Box Melaleuca quinquenervia - Cajeput Tree.....	713.36	
32 93 43 00-0629	EA		4' Metrosideros excelsus - New Zealand Christmas Tree.....	95.11	
32 93 43 00-0630	EA		5' Metrosideros excelsus - New Zealand Christmas Tree.....	128.86	
32 93 43 00-0631	EA		6' Metrosideros excelsus - New Zealand Christmas Tree.....	219.38	
32 93 43 00-0632	EA		8' Metrosideros excelsus - New Zealand Christmas Tree.....	271.54	
32 93 43 00-0633	EA		24" Box Metrosideros excelsus - New Zealand Christmas Tree.....	180.68	
32 93 43 00-0634	EA		6' Pinus canariensis - Canary Island Pine.....	368.18	
32 93 43 00-0635	EA		8' Pinus canariensis - Canary Island Pine.....	490.91	
32 93 43 00-0636	EA		10' Pinus canariensis - Canary Island Pine.....	613.64	
32 93 43 00-0637	EA		12' Pinus canariensis - Canary Island Pine.....	736.37	
32 93 43 00-0638	EA		24" Box Pinus canariensis - Canary Island Pine.....	378.92	
32 93 43 00-0639	EA		6' Pinus pinea - Italian Stone Pine.....	368.18	
32 93 43 00-0640	EA		8' Pinus pinea - Italian Stone Pine.....	490.91	
32 93 43 00-0641	EA		10' Pinus pinea - Italian Stone Pine.....	613.64	
32 93 43 00-0642	EA		12' Pinus pinea - Italian Stone Pine.....	736.37	
32 93 43 00-0643	EA		6' Pittosporum undulatum - Victorian Box.....	202.50	
32 93 43 00-0644	EA		8' Pittosporum undulatum - Victorian Box.....	320.63	
32 93 43 00-0645	EA		10' Pittosporum undulatum - Victorian Box.....	421.88	
32 93 43 00-0646	EA		6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	383.52	
32 93 43 00-0647	EA		8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	506.25	
32 93 43 00-0648	EA		10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	644.32	
32 93 43 00-0649	EA		12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	767.05	
32 93 43 00-0650	EA		24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	179.49	
32 93 43 00-0651	EA		1 Gallon Podocarpus macrophyllus - Yew Pine.....	7.13	
32 93 43 00-0652	EA		3 Gallon Podocarpus macrophyllus - Yew Pine.....	16.72	
32 93 43 00-0653	EA		5 Gallon Podocarpus macrophyllus - Yew Pine.....	21.94	
32 93 43 00-0654	EA		15 Gallon Podocarpus macrophyllus - Yew Pine.....	95.11	
32 93 43 00-0655	EA		24" Box Podocarpus macrophyllus - Yew Pine.....	184.09	
32 93 43 00-0656	EA		24" Box Rhus lancea - African Sumac.....	189.46	
32 93 43 00-0657	EA		30" Box Rhus lancea - African Sumac.....	306.82	
32 93 43 00-0658	EA		8' Rhus lancea - African Sumac.....	460.23	
32 93 43 00-0659	EA		10' Rhus lancea - African Sumac.....	513.92	
32 93 43 00-0660	EA		12' Rhus lancea - African Sumac.....	613.64	

32 93 43 00-0661**Palm And Subtropical Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA		4' To 5' Archontophoenix cunninghamiana - King Palm.....	102.64	
32 93 43 00-0663	EA		6' To 8' Archontophoenix cunninghamiana - King Palm.....	159.66	
32 93 43 00-0664	EA		8' To 10' Archontophoenix cunninghamiana - King Palm.....	205.28	
32 93 43 00-0665	EA		10' To 12' Archontophoenix cunninghamiana - King Palm.....	273.70	
32 93 43 00-0666	EA		4' To 5' Arecastrum romanzoffianum - Queen Palm.....	77.76	
32 93 43 00-0667	EA		6' To 8' Arecastrum romanzoffianum - Queen Palm.....	108.86	
32 93 43 00-0668	EA		8' To 10' Arecastrum romanzoffianum - Queen Palm.....	139.96	
32 93 43 00-0669	EA		10' To 12' Arecastrum romanzoffianum - Queen Palm.....	171.06	
32 93 43 00-0670	EA		12' To 14' Arecastrum romanzoffianum - Queen Palm.....	207.35	
32 93 43 00-0671	EA		14' To 16' Arecastrum romanzoffianum - Queen Palm.....	259.19	
32 93 43 00-0672	EA		3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	217.72	
32 93 43 00-0673	EA		5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	342.13	
32 93 43 00-0674	EA		3' To 4' Chamaerops humilis - European Fan Palm.....	186.62	
32 93 43 00-0675	EA		5' To 6' Chamaerops humilis - European Fan Palm.....	248.82	
32 93 43 00-0676	EA		7' To 8' Chamaerops humilis - European Fan Palm.....	580.58	
32 93 43 00-0677	EA		9' To 10' Chamaerops humilis - European Fan Palm.....	995.28	
32 93 43 00-0678	EA		12' To 16' Cocos nucifera - Coconut Palm.....	437.24	
32 93 43 00-0679	EA		6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	145.14	
32 93 43 00-0680	EA		8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	290.29	
32 93 43 00-0681	EA		10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	373.23	
32 93 43 00-0682	EA		12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	518.38	
32 93 43 00-0683	EA		4' To 5' Rhaps excelsa - Lady Palm.....	393.96	
32 93 43 00-0684	EA		6' To 7' Rhaps excelsa - Lady Palm.....	559.84	
32 93 43 00-0685	EA		8' To 9' Roystonea regia - Royal Palm.....	317.25	
32 93 43 00-0686	EA		10' To 11' Roystonea regia - Royal Palm.....	387.74	
32 93 43 00-0687	EA		12' To 13' Roystonea regia - Royal Palm.....	458.24	
32 93 43 00-0688	EA		14' To 15' Roystonea regia - Royal Palm.....	528.74	
32 93 43 00-0689	EA		16' To 17' Roystonea regia - Royal Palm.....	599.24	
32 93 43 00-0690	EA		18' To 19' Roystonea regia - Royal Palm.....	669.74	
32 93 43 00-0691	EA		20' To 21' Roystonea regia - Royal Palm.....	740.24	
32 93 43 00-0692	EA		10' To 16' Sabal palmetto - Cabbage Palm.....	160.33	
32 93 43 00-0693	EA		6' To 7' Thrinax morrisii - Key Thatch Palm.....	435.44	
32 93 43 00-0694	EA		8' To 9' Thrinax morrisii - Key Thatch Palm.....	559.84	
32 93 43 00-0695	EA		10' To 11' Thrinax morrisii - Key Thatch Palm.....	684.26	
32 93 43 00-0696	EA		9' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	155.51	
32 93 43 00-0697	EA		11' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	259.19	
32 93 43 00-0698	EA		15' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	393.96	
32 93 43 00-0699	EA		17' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	445.80	
32 93 43 00-0700	EA		20' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	518.38	
32 93 43 00-0701	EA		4' To 5' Bauninia blakeana - Hong Kong Orchid.....	445.80	
32 93 43 00-0702	EA		6' Bauninia blakeana - Hong Kong Orchid.....	528.74	
32 93 43 00-0703	EA		8' Bauninia blakeana - Hong Kong Orchid.....	704.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0704	EA	10'	Bauhinia blakeana - Hong Kong Orchid	881.24	
32 93 43 00-0705	EA	4' To 5'	Acacia baileyana - Bailey Acacia	250.94	
32 93 43 00-0706	EA	6'	Acacia baileyana - Bailey Acacia	301.13	
32 93 43 00-0707	EA	8'	Acacia baileyana - Bailey Acacia	351.32	
32 93 43 00-0708	EA	10'	Acacia baileyana - Bailey Acacia	439.14	
32 93 43 00-0709	EA	6'	Agonis flexuosa - Peppermint Tree	150.56	
32 93 43 00-0710	EA	8'	Agonis flexuosa - Peppermint Tree	188.20	
32 93 43 00-0711	EA	10'	Agonis flexuosa - Peppermint Tree	225.85	
32 93 43 00-0712	EA	24"	Box Agonis flexuosa - Peppermint Tree	187.58	
32 93 43 00-0713	EA	6'	Bauhinia purpurea - Purple Orchid Tree	559.84	
32 93 43 00-0714	EA	8'	Bauhinia purpurea - Purple Orchid Tree	746.46	
32 93 43 00-0715	EA	10'	Bauhinia purpurea - Purple Orchid Tree	933.08	
32 93 43 00-0716	EA	24"	Box Bauhinia purpurea - Purple Orchid Tree	242.60	
32 93 43 00-0717	EA	6'	Bauhinia variegata candida - White Orchid Tree	622.05	
32 93 43 00-0718	EA	8'	Bauhinia variegata candida - White Orchid Tree	829.40	
32 93 43 00-0719	EA	10'	Bauhinia variegata candida - White Orchid Tree	1,036.75	
32 93 43 00-0720	EA	6'	Callistemon citrinus - Crimson or Lemon Bottle Brush	338.77	
32 93 43 00-0721	EA	8'	Callistemon citrinus - Crimson or Lemon Bottle Brush	451.69	
32 93 43 00-0722	EA	10'	Callistemon citrinus - Crimson or Lemon Bottle Brush	564.62	
32 93 43 00-0723	EA	6'	Eriobotrya deflexa - Bronze Loquat	559.84	
32 93 43 00-0724	EA	8'	Eriobotrya deflexa - Bronze Loquat	746.46	
32 93 43 00-0725	EA	10'	Eriobotrya deflexa - Bronze Loquat	933.08	
32 93 43 00-0726	EA	6'	Eucalyptus erythrocorys - Red Cap Gum	559.84	
32 93 43 00-0727	EA	8'	Eucalyptus erythrocorys - Red Cap Gum	746.46	
32 93 43 00-0728	EA	10'	Eucalyptus erythrocorys - Red Cap Gum	933.08	
32 93 43 00-0729	EA	6'	Eucalyptus torquata - Coral Gum	559.84	
32 93 43 00-0730	EA	8'	Eucalyptus torquata - Coral Gum	746.46	
32 93 43 00-0731	EA	10'	Eucalyptus torquata - Coral Gum	933.08	
32 93 43 00-0732	EA	8'	Fraxinus oxycarpa "Raywood" - Raywood Ash	351.32	
32 93 43 00-0733	EA	10'	Fraxinus oxycarpa "Raywood" - Raywood Ash	476.79	
32 93 43 00-0734	EA	12'	Fraxinus oxycarpa "Raywood" - Raywood Ash	589.71	
32 93 43 00-0735	EA	1	Gallon Washingtonia robusta - Mexican Fan Palm	9.03	
32 93 43 00-0736	EA	5	Gallon Washingtonia robusta - Mexican Fan Palm	28.10	
32 93 43 00-0737	EA	15	Gallon Washingtonia robusta - Mexican Fan Palm	98.35	
32 93 43 00-0738	EA	24"	Box Washingtonia robusta - Mexican Fan Palm	321.15	
32 93 43 00-0739	EA	36"	Box Washingtonia robusta - Mexican Fan Palm	853.06	
32 93 43 00-0740	EA	6'	Washingtonia robusta - Mexican Fan Palm	559.84	
32 93 43 00-0741	EA	8'	Washingtonia robusta - Mexican Fan Palm	746.46	
32 93 43 00-0742	EA	10'	Washingtonia robusta - Mexican Fan Palm	933.08	
32 93 43 00-0743	EA	12'	Washingtonia robusta - Mexican Fan Palm	1,119.69	
32 93 43 00-0744	EA	6'	Olea europaea - Olive "Fruitless"	414.21	
32 93 43 00-0745	EA	8'	Olea europaea - Olive "Fruitless"	552.28	
32 93 43 00-0746	EA	10'	Olea europaea - Olive "Fruitless"	690.34	
32 93 43 00-0747	EA	12'	Olea europaea - Olive "Fruitless"	828.41	
32 93 43 00-0748	EA	24"	Box Olea europaea - Olive "Fruitless"	509.32	
32 93 43 00-0749	EA	6'	Eucalyptus polyanthemos - Silver Dollar Gum	559.84	
32 93 43 00-0750	EA	8'	Eucalyptus polyanthemos - Silver Dollar Gum	746.46	
32 93 43 00-0751	EA	10'	Eucalyptus polyanthemos - Silver Dollar Gum	933.08	
32 93 43 00-0752	EA	6'	Eucalyptus leucoxydon - White Ironbark	559.84	
32 93 43 00-0753	EA	8'	Eucalyptus leucoxydon - White Ironbark	746.46	
32 93 43 00-0754	EA	10'	Eucalyptus leucoxydon - White Ironbark	933.08	
32 93 43 00-0755	EA	12'	Eucalyptus leucoxydon - White Ironbark	1,119.69	
32 93 43 00-0756	EA	6'	Callistemon viminalis - Weeping Bottle Brush	338.77	
32 93 43 00-0757	EA	8'	Callistemon viminalis - Weeping Bottle Brush	451.69	
32 93 43 00-0758	EA	10'	Callistemon viminalis - Weeping Bottle Brush	564.62	
32 93 43 00-0759	EA	12'	Callistemon viminalis - Weeping Bottle Brush	677.54	
32 93 43 00-0760	EA	6'	Eucalyptus gunnii - Cider Gum	559.84	
32 93 43 00-0761	EA	8'	Eucalyptus gunnii - Cider Gum	746.46	
32 93 43 00-0762	EA	10'	Eucalyptus gunnii - Cider Gum	933.08	
32 93 43 00-0763	EA	6'	Jacarandra acutifolia - Jacaranda	559.84	
32 93 43 00-0764	EA	8'	Jacarandra acutifolia - Jacaranda	746.46	
32 93 43 00-0765	EA	10'	Jacarandra acutifolia - Jacaranda	933.08	
32 93 43 00-0766	EA	24"	Box Jacarandra acutifolia - Jacaranda	242.60	
32 93 43 00-0767	EA	5	Gallon Phoenix roebelenii - Pygmy Date Palm	23.05	
32 93 43 00-0768	EA	7	Gallon Phoenix roebelenii - Pygmy Date Palm	56.18	
32 93 43 00-0769	EA	15	Gallon Phoenix roebelenii - Pygmy Date Palm	85.00	
32 93 43 00-0770	EA	24"	Box Phoenix roebelenii - Pygmy Date Palm	252.10	
32 93 43 00-0771	EA	5	Gallon Pistacia chinensis - Chinese Pistache	37.32	
32 93 43 00-0772	EA	15	Gallon Pistacia chinensis - Chinese Pistache	124.41	
32 93 43 00-0773	EA	24"	Box Pistacia chinensis - Chinese Pistache	483.13	
32 93 43 00-0774	EA	36"	Box Pistacia chinensis - Chinese Pistache	1,285.57	
32 93 43 00-0775	EA	48"	Box Pistacia chinensis - Chinese Pistache	2,737.02	
32 93 43 00-0776	EA	5	Gallon Pyrus kawakamii - Evergreen Pear, Single	23.34	
32 93 43 00-0777	EA	15	Gallon Pyrus kawakamii - Evergreen Pear, Single	77.79	
32 93 43 00-0778	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Single	292.35	
32 93 43 00-0779	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Single	534.50	
32 93 43 00-0780	EA	36"	Box Pyrus kawakamii - Evergreen Pear, Single	777.91	
32 93 43 00-0781	EA	5	Gallon Pyrus kawakamii - Evergreen Pear, Multi	23.34	
32 93 43 00-0782	EA	15	Gallon Pyrus kawakamii - Evergreen Pear, Multi	82.81	
32 93 43 00-0783	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Multi	301.13	
32 93 43 00-0784	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Multi	534.50	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

32 93 43 00-0785 EA 36" Box Pyrus kawakamii - Evergreen Pear, Multi.....777.91

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting.....	1.41	
32 93 83 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting.....	2.25	
32 93 83 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting.....	2.81	
32 93 83 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting.....	4.50	
32 93 83 00-0006	EA	1 Gallon Container Tree Planting.....	22.50	
		<i>For >10 To 25, Deduct</i>	-1.13	
		<i>For >25 To 50, Deduct</i>	-2.81	
		<i>For >50 To 100, Deduct</i>	-4.50	
		<i>For >100, Deduct</i>	-6.75	
32 93 83 00-0007	EA	2 Gallon Container Tree Planting.....	31.51	
		<i>For >10 To 25, Deduct</i>	-1.58	
		<i>For >25 To 50, Deduct</i>	-3.94	
		<i>For >50 To 100, Deduct</i>	-6.30	
		<i>For >100, Deduct</i>	-9.45	
32 93 83 00-0008	EA	3 Gallon Container Tree Planting.....	40.50	
		<i>For >10 To 25, Deduct</i>	-2.03	
		<i>For >25 To 50, Deduct</i>	-5.06	
		<i>For >50 To 100, Deduct</i>	-8.10	
		<i>For >100, Deduct</i>	-12.15	
32 93 83 00-0009	EA	5 Gallon Container Tree Planting.....	67.50	
		<i>For >10 To 25, Deduct</i>	-3.38	
		<i>For >25 To 50, Deduct</i>	-8.44	
		<i>For >50 To 100, Deduct</i>	-13.50	
		<i>For >100, Deduct</i>	-20.25	
32 93 83 00-0010	EA	7 Gallon Container Tree Planting.....	90.00	
		<i>For >10 To 25, Deduct</i>	-4.50	
		<i>For >25 To 50, Deduct</i>	-11.25	
		<i>For >50 To 100, Deduct</i>	-18.00	
		<i>For >100, Deduct</i>	-27.00	
32 93 83 00-0011	EA	10 Gallon Container Tree Planting.....	117.00	
		<i>For >10 To 25, Deduct</i>	-5.85	
		<i>For >25 To 50, Deduct</i>	-14.63	
		<i>For >50 To 100, Deduct</i>	-23.40	
		<i>For >100, Deduct</i>	-35.10	
32 93 83 00-0012	EA	15 Gallon Container Tree Planting.....	166.51	
		<i>For >10 To 25, Deduct</i>	-8.33	
		<i>For >25 To 50, Deduct</i>	-20.81	
		<i>For >50 To 100, Deduct</i>	-33.30	
		<i>For >100, Deduct</i>	-49.95	
32 93 83 00-0013	EA	20 Gallon Container Tree Planting.....	274.51	
		<i>For >10 To 25, Deduct</i>	-13.73	
		<i>For >25 To 50, Deduct</i>	-34.31	
		<i>For >50 To 100, Deduct</i>	-54.90	
		<i>For >100, Deduct</i>	-82.35	
32 93 83 00-0014	EA	25 Gallon Container Tree Planting.....	355.51	
		<i>For >10 To 25, Deduct</i>	-17.78	
		<i>For >25 To 50, Deduct</i>	-44.44	
		<i>For >50 To 100, Deduct</i>	-71.10	
		<i>For >100, Deduct</i>	-106.65	
32 93 83 00-0015	EA	30 Gallon Container Tree Planting.....	427.52	
		<i>For >10 To 25, Deduct</i>	-21.38	
		<i>For >25 To 50, Deduct</i>	-53.44	
		<i>For >50 To 100, Deduct</i>	-85.50	
		<i>For >100, Deduct</i>	-128.26	
32 93 83 00-0016	EA	45 Gallon Container Tree Planting.....	531.02	
		<i>For >10 To 25, Deduct</i>	-26.55	
		<i>For >25 To 50, Deduct</i>	-66.38	
		<i>For >50 To 100, Deduct</i>	-106.20	
		<i>For >100, Deduct</i>	-159.31	
32 93 83 00-0017	EA	65 Gallon Container Tree Planting.....	630.03	
		<i>For >10 To 25, Deduct</i>	-31.50	
		<i>For >25 To 50, Deduct</i>	-78.75	
		<i>For >50 To 100, Deduct</i>	-126.01	
		<i>For >100, Deduct</i>	-189.01	
32 93 83 00-0018	EA	6' Balled And Burlapped Tree Planting.....	225.01	
		<i>For >10 To 25, Deduct</i>	-11.25	
		<i>For >25 To 50, Deduct</i>	-28.13	
		<i>For >50 To 100, Deduct</i>	-45.00	
		<i>For >100, Deduct</i>	-67.50	
32 93 83 00-0019	EA	7' Balled And Burlapped Tree Planting.....	299.71	
		<i>For >10 To 25, Deduct</i>	-14.99	
		<i>For >25 To 50, Deduct</i>	-37.46	
		<i>For >50 To 100, Deduct</i>	-59.94	
		<i>For >100, Deduct</i>	-89.91	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting	337.52	
For >10 To 25, Deduct	-16.88	
For >25 To 50, Deduct	-42.19	
For >50 To 100, Deduct	-67.50	
For >100, Deduct	-101.26	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting	393.76	
For >10 To 25, Deduct	-19.69	
For >25 To 50, Deduct	-49.22	
For >50 To 100, Deduct	-78.75	
For >100, Deduct	-118.13	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting	526.53	
For >10 To 25, Deduct	-26.33	
For >25 To 50, Deduct	-65.82	
For >50 To 100, Deduct	-105.31	
For >100, Deduct	-157.96	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting	603.03	
For >10 To 25, Deduct	-30.15	
For >25 To 50, Deduct	-75.38	
For >50 To 100, Deduct	-120.61	
For >100, Deduct	-180.91	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting	731.28	
For >10 To 25, Deduct	-36.56	
For >25 To 50, Deduct	-91.41	
For >50 To 100, Deduct	-146.26	
For >100, Deduct	-219.38	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting	877.54	
For >10 To 25, Deduct	-43.88	
For >25 To 50, Deduct	-109.69	
For >50 To 100, Deduct	-175.51	
For >100, Deduct	-263.26	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting	1,012.55	
For >10 To 25, Deduct	-50.63	
For >25 To 50, Deduct	-126.57	
For >50 To 100, Deduct	-202.51	
For >100, Deduct	-303.77	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	337.52	
For >10 To 25, Deduct	-16.88	
For >25 To 50, Deduct	-42.19	
For >50 To 100, Deduct	-67.50	
For >100, Deduct	-101.26	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	393.76	
For >10 To 25, Deduct	-19.69	
For >25 To 50, Deduct	-49.22	
For >50 To 100, Deduct	-78.75	
For >100, Deduct	-118.13	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	528.77	
For >10 To 25, Deduct	-26.44	
For >25 To 50, Deduct	-66.10	
For >50 To 100, Deduct	-105.75	
For >100, Deduct	-158.63	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	607.53	
For >10 To 25, Deduct	-30.38	
For >25 To 50, Deduct	-75.94	
For >50 To 100, Deduct	-121.51	
For >100, Deduct	-182.26	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	675.03	
For >10 To 25, Deduct	-33.75	
For >25 To 50, Deduct	-84.38	
For >50 To 100, Deduct	-135.01	
For >100, Deduct	-202.51	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	774.04	
For >10 To 25, Deduct	-38.70	
For >25 To 50, Deduct	-96.76	
For >50 To 100, Deduct	-154.81	
For >100, Deduct	-232.21	
32 93 83 00-0033 Planting Shrubs ^(32 93 83)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting	19.13	
For >10 To 25, Deduct	-0.96	
For >25 To 50, Deduct	-2.39	
For >50 To 100, Deduct	-3.83	
For >100, Deduct	-5.74	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting	27.00	
For >10 To 25, Deduct	-1.35	
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-5.40	
For >100, Deduct	-8.10	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting	33.75	
For >10 To 25, Deduct	-1.69	
For >25 To 50, Deduct	-4.22	
For >50 To 100, Deduct	-6.75	
For >100, Deduct	-10.13	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0037	EA		4 Gallon Container Shrub Planting	45.01	
			<i>For >10 To 25, Deduct</i>	-2.25	
			<i>For >25 To 50, Deduct</i>	-5.63	
			<i>For >50 To 100, Deduct</i>	-9.00	
			<i>For >100, Deduct</i>	-13.50	
32 93 83 00-0038	EA		5 Gallon Container Shrub Planting	56.25	
			<i>For >10 To 25, Deduct</i>	-2.81	
			<i>For >25 To 50, Deduct</i>	-7.03	
			<i>For >50 To 100, Deduct</i>	-11.25	
			<i>For >100, Deduct</i>	-16.88	
32 93 83 00-0039	EA		7 Gallon Container Shrub Planting	76.50	
			<i>For >10 To 25, Deduct</i>	-3.83	
			<i>For >25 To 50, Deduct</i>	-9.56	
			<i>For >50 To 100, Deduct</i>	-15.30	
			<i>For >100, Deduct</i>	-22.95	
32 93 83 00-0040	EA		10 Gallon Container Shrub Planting	101.25	
			<i>For >10 To 25, Deduct</i>	-5.06	
			<i>For >25 To 50, Deduct</i>	-12.66	
			<i>For >50 To 100, Deduct</i>	-20.25	
			<i>For >100, Deduct</i>	-30.38	
32 93 83 00-0041	EA		15 Gallon Container Shrub Planting	139.51	
			<i>For >10 To 25, Deduct</i>	-6.98	
			<i>For >25 To 50, Deduct</i>	-17.44	
			<i>For >50 To 100, Deduct</i>	-27.90	
			<i>For >100, Deduct</i>	-41.85	
32 93 83 00-0042	EA		20 Gallon Container Shrub Planting	234.01	
			<i>For >10 To 25, Deduct</i>	-11.70	
			<i>For >25 To 50, Deduct</i>	-29.25	
			<i>For >50 To 100, Deduct</i>	-46.80	
			<i>For >100, Deduct</i>	-70.20	
32 93 83 00-0043	EA		25 Gallon Container Shrub Planting	299.71	
			<i>For >10 To 25, Deduct</i>	-14.99	
			<i>For >25 To 50, Deduct</i>	-37.46	
			<i>For >50 To 100, Deduct</i>	-59.94	
			<i>For >100, Deduct</i>	-89.91	
32 93 83 00-0044	EA		15" Balled And Burlapped Shrub Planting	63.00	
			<i>For >10 To 25, Deduct</i>	-3.15	
			<i>For >25 To 50, Deduct</i>	-7.88	
			<i>For >50 To 100, Deduct</i>	-12.60	
			<i>For >100, Deduct</i>	-18.90	
32 93 83 00-0045	EA		18" Balled And Burlapped Shrub Planting	65.25	
			<i>For >10 To 25, Deduct</i>	-3.26	
			<i>For >25 To 50, Deduct</i>	-8.16	
			<i>For >50 To 100, Deduct</i>	-13.05	
			<i>For >100, Deduct</i>	-19.58	
32 93 83 00-0046	EA		24" Balled And Burlapped Shrub Planting	72.01	
			<i>For >10 To 25, Deduct</i>	-3.60	
			<i>For >25 To 50, Deduct</i>	-9.00	
			<i>For >50 To 100, Deduct</i>	-14.40	
			<i>For >100, Deduct</i>	-21.60	
32 93 83 00-0047	EA		30" Balled And Burlapped Shrub Planting	72.01	
			<i>For >10 To 25, Deduct</i>	-3.60	
			<i>For >25 To 50, Deduct</i>	-9.00	
			<i>For >50 To 100, Deduct</i>	-14.40	
			<i>For >100, Deduct</i>	-21.60	
32 93 83 00-0048	EA		36" Balled And Burlapped Shrub Planting	78.75	
			<i>For >10 To 25, Deduct</i>	-3.94	
			<i>For >25 To 50, Deduct</i>	-9.84	
			<i>For >50 To 100, Deduct</i>	-15.75	
			<i>For >100, Deduct</i>	-23.63	
32 93 83 00-0049	EA		42" Balled And Burlapped Shrub Planting	83.26	
			<i>For >10 To 25, Deduct</i>	-4.16	
			<i>For >25 To 50, Deduct</i>	-10.41	
			<i>For >50 To 100, Deduct</i>	-16.65	
			<i>For >100, Deduct</i>	-24.98	
32 93 83 00-0050	EA		48" Balled And Burlapped Shrub Planting	90.00	
			<i>For >10 To 25, Deduct</i>	-4.50	
			<i>For >25 To 50, Deduct</i>	-11.25	
			<i>For >50 To 100, Deduct</i>	-18.00	
			<i>For >100, Deduct</i>	-27.00	
32 93 83 00-0051	EA		5' Balled And Burlapped Shrub Planting	135.01	
			<i>For >10 To 25, Deduct</i>	-6.75	
			<i>For >25 To 50, Deduct</i>	-16.88	
			<i>For >50 To 100, Deduct</i>	-27.00	
			<i>For >100, Deduct</i>	-40.50	
32 93 83 00-0052	EA		6' Balled And Burlapped Shrub Planting	191.26	
			<i>For >10 To 25, Deduct</i>	-9.56	
			<i>For >25 To 50, Deduct</i>	-23.91	
			<i>For >50 To 100, Deduct</i>	-38.25	
			<i>For >100, Deduct</i>	-57.38	
32 93 83 00-0053	EA		7' Balled And Burlapped Shrub Planting	254.26	
			<i>For >10 To 25, Deduct</i>	-12.71	
			<i>For >25 To 50, Deduct</i>	-31.78	
			<i>For >50 To 100, Deduct</i>	-50.85	
			<i>For >100, Deduct</i>	-76.28	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting	288.01	
For >10 To 25, Deduct	-14.40	
For >25 To 50, Deduct	-36.00	
For >50 To 100, Deduct	-57.60	
For >100, Deduct	-86.40	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting	310.52	
For >10 To 25, Deduct	-15.53	
For >25 To 50, Deduct	-38.82	
For >50 To 100, Deduct	-62.10	
For >100, Deduct	-93.16	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting	337.52	
For >10 To 25, Deduct	-16.88	
For >25 To 50, Deduct	-42.19	
For >50 To 100, Deduct	-67.50	
For >100, Deduct	-101.26	
32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs <small>(32 93 83)</small>		
See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting	1.88	
For >10 To 25, Deduct	-0.09	
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.38	
For >100, Deduct	-0.56	
32 93 83 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting	2.14	
For >10 To 25, Deduct	-0.11	
For >25 To 50, Deduct	-0.27	
For >50 To 100, Deduct	-0.43	
For >100, Deduct	-0.64	
32 93 83 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting	2.50	
For >10 To 25, Deduct	-0.13	
For >25 To 50, Deduct	-0.31	
For >50 To 100, Deduct	-0.50	
For >100, Deduct	-0.75	
32 93 83 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting	3.00	
For >10 To 25, Deduct	-0.15	
For >25 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.60	
For >100, Deduct	-0.90	
32 93 83 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting	3.75	
For >10 To 25, Deduct	-0.19	
For >25 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.75	
For >100, Deduct	-1.13	
32 93 83 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting	5.63	
For >10 To 25, Deduct	-0.28	
For >25 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.13	
For >100, Deduct	-1.69	
32 93 83 00-0064 EA 1 Gallon Container Groundcover And Flower Planting	18.00	
For >10 To 25, Deduct	-0.90	
For >25 To 50, Deduct	-2.25	
For >50 To 100, Deduct	-3.60	
For >100, Deduct	-5.40	
32 93 83 00-0065 EA 2 Gallon Container Groundcover And Flower Planting	24.75	
For >10 To 25, Deduct	-1.24	
For >25 To 50, Deduct	-3.09	
For >50 To 100, Deduct	-4.95	
For >100, Deduct	-7.43	
32 93 83 00-0066 EA 3 Gallon Container Groundcover And Flower Planting	31.51	
For >10 To 25, Deduct	-1.58	
For >25 To 50, Deduct	-3.94	
For >50 To 100, Deduct	-6.30	
For >100, Deduct	-9.45	
32 93 83 00-0067 EA 4 Gallon Container Groundcover And Flower Planting	40.50	
For >10 To 25, Deduct	-2.03	
For >25 To 50, Deduct	-5.06	
For >50 To 100, Deduct	-8.10	
For >100, Deduct	-12.15	
32 93 83 00-0068 EA 5 Gallon Container Groundcover And Flower Planting	49.50	
For >10 To 25, Deduct	-2.48	
For >25 To 50, Deduct	-6.19	
For >50 To 100, Deduct	-9.90	
For >100, Deduct	-14.85	
32 93 83 00-0069 EA 7 Gallon Container Groundcover And Flower Planting	67.50	
For >10 To 25, Deduct	-3.38	
For >25 To 50, Deduct	-8.44	
For >50 To 100, Deduct	-13.50	
For >100, Deduct	-20.25	
32 93 83 00-0070 EA Bulb Planting.....	1.13	
For >10 To 25, Deduct	-0.06	
For >25 To 50, Deduct	-0.14	
For >50 To 100, Deduct	-0.23	
For >100, Deduct	-0.34	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0071	EA		Flats Of 24 Groundcover And Flower Planting.....	31.50	
			<i>For >10 To 25, Deduct</i>	-1.58	
			<i>For >25, Deduct</i>	-3.94	
32 93 83 00-0072	EA		Flats Of 36 Groundcover And Flower Planting.....	44.69	
			<i>For >10 To 25, Deduct</i>	-2.23	
			<i>For >25, Deduct</i>	-5.59	
32 93 83 00-0073	EA		Flats Of 48 Groundcover And Flower Planting.....	59.48	
			<i>For >10 To 25, Deduct</i>	-2.97	
			<i>For >25, Deduct</i>	-7.44	

32 93 83 00-0074

Tree Pits (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 83 00-0075	EA		2' x 1-1/4' Deep Tree Pit	132.25	
32 93 83 00-0076	EA		2' x 2-1/2' Deep Tree Pit	198.34	
32 93 83 00-0077	EA		2-1/2' x 1-1/2' Deep Tree Pit	255.54	
32 93 83 00-0078	EA		2-1/2' x 3' Deep Tree Pit	383.24	
32 93 83 00-0079	EA		3' x 1-3/4' Deep Tree Pit	395.63	
32 93 83 00-0080	EA		3' x 3-1/2' Deep Tree Pit	590.53	
32 93 83 00-0081	EA		3-1/2' x 1-3/4' Deep Tree Pit	485.51	
32 93 83 00-0082	EA		3-1/2' x 3-1/2' Deep Tree Pit	727.31	
32 93 83 00-0083	EA		4' x 2' Deep Tree Pit	580.62	
32 93 83 00-0084	EA		4' x 4' Deep Tree Pit	870.48	
32 93 83 00-0085	EA		4-1/2' x 2' Deep Tree Pit	837.07	
32 93 83 00-0086	EA		4-1/2' x 4' Deep Tree Pit	1,257.95	
32 93 83 00-0087	EA		5' x 2-1/4' Deep Tree Pit	1,113.38	
32 93 83 00-0088	EA		5' x 4-1/2' Deep Tree Pit	1,659.02	
32 93 83 00-0089	EA		6' x 2-1/2' Deep Tree Pit	1,578.93	
32 93 83 00-0090	EA		6' x 5' Deep Tree Pit	2,365.08	
32 93 83 00-0091	EA		7' x 3' Deep Tree Pit	2,660.67	
32 93 83 00-0092	EA		7' x 6' Deep Tree Pit	4,011.14	
32 93 83 00-0093	EA		8' x 3-1/4' Deep Tree Pit	3,661.23	
32 93 83 00-0094	EA		8' x 6-1/2' Deep Tree Pit	5,489.64	

32 94 Planting Accessories (32 94)

32 94 13 Landscape Edging (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF		6" Poly/Vinyl Landscape Edging With Non-Round Top.....	5.92	1.15
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.36	
			<i>For >5,000 LF, Deduct</i>	-0.72	
32 94 13 00-0003	LF		5" Polyethylene Landscape Edging With Round Top.....	3.43	1.15
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.11	
			<i>For >5,000 LF, Deduct</i>	-0.23	
32 94 13 00-0004	LF		5-1/2" Polyethylene Landscape Edging With Round Top	3.50	1.15
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.12	
			<i>For >5,000 LF, Deduct</i>	-0.24	
32 94 13 00-0005	LF		5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	3.53	1.15
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.12	
			<i>For >5,000 LF, Deduct</i>	-0.25	
32 94 13 00-0006	LF		1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	10.09	2.74
			<i>For >1,000 LF, Deduct</i>	-1.15	
32 94 13 00-0007	LF		1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	11.04	2.74
			<i>For >1,000 LF, Deduct</i>	-1.39	
32 94 13 00-0008	LF		1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	11.11	2.74
			<i>For >1,000 LF, Deduct</i>	-1.41	
32 94 13 00-0009	LF		3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	12.77	2.83
			<i>For >1,000 LF, Deduct</i>	-1.79	
32 94 13 00-0010	LF		3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	13.94	2.83
			<i>For >1,000 LF, Deduct</i>	-2.08	
32 94 13 00-0011	LF		3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	13.92	2.83
			<i>For >1,000 LF, Deduct</i>	-2.07	
32 94 13 00-0012	LF		1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	11.34	2.92
			<i>For >1,000 LF, Deduct</i>	-1.39	
32 94 13 00-0013	LF		1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	12.65	2.92
			<i>For >1,000 LF, Deduct</i>	-1.72	
32 94 13 00-0014	LF		1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	12.78	2.92
			<i>For >1,000 LF, Deduct</i>	-1.75	
32 94 13 00-0015	LF		3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	14.40	3.01
			<i>For >1,000 LF, Deduct</i>	-2.12	
32 94 13 00-0016	LF		3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	15.70	3.01
			<i>For >1,000 LF, Deduct</i>	-2.44	
32 94 13 00-0017	LF		3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	15.82	3.01
			<i>For >1,000 LF, Deduct</i>	-2.47	
32 94 13 00-0018	LF		1/8" x 4" Powder Coated Steel Landscape Edging	10.74	2.83
			<i>For >1,000 LF, Deduct</i>	-1.27	



		Exterior Improvements	32
		Planting	32 90
		Planting Accessories	32 94

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0019	LF		3/16" x 4" Powder Coated Steel Landscape Edging <i>For >1,000 LF, Deduct</i>	12.67 -1.75	2.83
32 94 13 00-0020	LF		1/4" x 5" Powder Coated Steel Landscape Edging <i>For >1,000 LF, Deduct</i>	17.83 -3.04	2.83
32 94 13 00-0021	LF		1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For >1,000 LF, Deduct</i>	8.01 -0.63	2.74
32 94 13 00-0022	LF		1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board) <i>For >1,000 LF, Deduct</i>	9.16 -0.92	2.74
32 94 13 00-0023	LF		1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board) <i>For >1,000 LF, Deduct</i>	10.16 -1.17	2.74
32 94 13 00-0024	LF		2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board) <i>For >1,000 LF, Deduct</i>	10.38 -1.23	2.74
32 94 13 00-0025			Concrete Band, Cast In Place <small>(32 94 13)</small> Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 94 13 00-0026	LF		6" x 4" Concrete Band Note: Excludes base course. <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	18.49 11.39 6.47 2.46 -2.46 -4.16	9.82
32 94 13 00-0027	LF		6" x 6" Concrete Band Note: Excludes base course. <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	22.08 13.65 7.75 2.95 -2.95 -4.98	11.54
32 94 13 00-0028	LF		8" x 6" Concrete Band Note: Excludes base course. <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	25.47 15.77 8.95 3.41 -3.41 -5.75	132.75
32 94 13 00-0029	LF		10" x 6" Concrete Band Note: Excludes base course. <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	28.28 17.49 9.93 3.78 -3.78 -6.38	144.29
32 94 13 00-0030	LF		12" x 6" Concrete Band Note: Excludes base course. <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	29.39 18.00 10.21 3.89 -3.89 -6.58	15.01
32 94 16			Landscape Timbers <small>(32 94)</small>		
32 94 16 00-0001	LF		1" x 4" Redwood Edging	5.56	1.87
32 94 16 00-0002	LF		2" x 4" Redwood Edging	7.65	2.80
32 94 16 00-0003	LF		4" x 6" Pressure Treated Hardwood	10.30	3.74
32 94 16 00-0004	LF		6" x 6" Pressure Treated Hardwood	13.34	4.67
32 94 16 00-0005	LF		6" x 8" Pressure Treated Hardwood	15.57	5.49
32 94 16 00-0006	LF		1" x 4" Pressure Treated Pine.....	4.22	1.87
32 94 16 00-0007	LF		2" x 4" Pressure Treated Pine.....	6.37	2.80
32 94 16 00-0008	LF		4" x 6" Pressure Treated Pine.....	9.79	3.62
32 94 16 00-0009	LF		6" x 6" Pressure Treated Pine.....	13.25	4.67
32 94 16 00-0010	LF		6" x 8" Pressure Treated Pine.....	16.13	5.49
32 94 16 00-0011	LF		6" x 8" Railroad Ties	15.95	5.25
32 94 16 00-0012	LF		7" x 9" Railroad Ties	19.23	6.60
32 94 23			Plant Protection <small>(32 94)</small>		
32 94 23 00-0001	SF		Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge	2.58	
32 94 43			Tree Grates <small>(32 94)</small>		
32 94 43 00-0001			Tree Grates With Frames <small>(32 94 43)</small>		
32 94 43 00-0002			Round Cast Iron Tree Grates With Frames <small>(32 94 43 00-0001)</small>		
32 94 43 00-0003	EA		32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	1,067.54	69.26
32 94 43 00-0004	EA		36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	1,236.44	69.26
32 94 43 00-0005	EA		42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	1,493.74	92.34
32 94 43 00-0006	EA		48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,861.37	92.34
32 94 43 00-0007	EA		54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	2,386.97	115.43
32 94 43 00-0008	EA		60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame.....	2,502.68	138.51
32 94 43 00-0009	EA		60" Diameter, >350 LB Cast Iron Tree Grate With Frame	2,758.54	138.51

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 94 43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame.....	3,671.33		196.22
32 94 43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	3,820.37		196.22
32 94 43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	3,944.57		196.22
32 94 43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	4,043.93		196.22
32 94 43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	4,118.45		196.22
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	4,515.59		230.86
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0017	EA	30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame.....	983.07		69.26
32 94 43 00-0018	EA	36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame.....	1,194.21		69.26
32 94 43 00-0019	EA	48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,770.94		115.43
32 94 43 00-0020	EA	48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame.....	2,093.86		115.43
32 94 43 00-0021	EA	48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame.....	2,391.94		115.43
32 94 43 00-0022	EA	48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame.....	2,665.18		115.43
32 94 43 00-0023	EA	48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame.....	2,913.58		115.43
32 94 43 00-0024	EA	48" x 48", >400 LB Cast Iron Tree Grate With Frame	3,137.14		115.43
32 94 43 00-0025	EA	60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	3,005.92		161.60
32 94 43 00-0026	EA	60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame.....	3,229.48		161.60
32 94 43 00-0027	EA	60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame.....	3,428.20		161.60
32 94 43 00-0028	EA	60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame.....	3,602.08		161.60
32 94 43 00-0029	EA	60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,751.12		161.60
32 94 43 00-0030	EA	60" x 60", >600 LB Cast Iron Tree Grate With Frame.....	3,875.32		161.60
32 94 43 00-0031	EA	72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	3,671.33		196.22
32 94 43 00-0032	EA	72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,820.37		196.22
32 94 43 00-0033	EA	72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame.....	3,944.57		196.22
32 94 43 00-0034	EA	72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame.....	4,043.93		196.22
32 94 43 00-0035	EA	72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame.....	4,118.45		196.22
32 94 43 00-0036	EA	72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame.....	4,168.13		196.22
32 94 43 00-0037	EA	72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame.....	4,192.97		196.22
32 94 43 00-0038	EA	72" x 72", >850 LB Cast Iron Tree Grate With Frame.....	4,217.81		196.22
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0040	EA	36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,861.37		92.34
32 94 43 00-0041	EA	36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,898.63		92.34
32 94 43 00-0042	EA	36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame.....	2,319.90		115.43
32 94 43 00-0043	EA	48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame.....	2,734.73		115.43
32 94 43 00-0044	EA	48" x 72", >350 LB Cast Iron Tree Grate With Frame.....	2,913.58		115.43
32 94 43 00-0045	EA	60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame.....	3,894.89		196.22
32 94 49 Plant and Tree Accessories (32 94)					
32 94 49 00-0001 Tree Guying (32 94 49)					
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)					
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.					
32 94 49 00-0003	EA	Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	23.57		
32 94 49 00-0004	EA	Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	42.70		
32 94 49 00-0005	EA	Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	73.37		
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)					
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.					
32 94 49 00-0007	EA	Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	97.86		
32 94 49 00-0008	EA	Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	131.84		
32 94 49 00-0009	EA	Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	168.17		
32 94 49 00-0010	EA	Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	218.31		
32 94 49 00-0011 Tree Wrap (32 94 49)					
32 94 49 00-0012	EA	Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	6.86		
32 94 49 00-0013	EA	Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	11.45		
32 94 49 00-0014	EA	Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	22.76		
32 94 49 00-0015	EA	Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	35.44		
32 94 49 00-0016 Tree Guards (32 94 49)					
32 94 49 00-0017	EA	3' Preformed Plastic Tree Guard.....	13.85		
32 94 49 00-0018	EA	2' Preformed Plastic Tree Guard.....	12.08		
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)					
Note: When no design available.					
32 94 49 00-0020	EA	Stake Out Trees Or Shrubs	7.14		
32 94 49 00-0021 Root Barriers (32 94 49)					
32 94 49 00-0022	EA	12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	12.58		
32 94 49 00-0023	EA	18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	17.95		



Exterior Improvements		32
Planting		32 90
Planting Accessories		32 94

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 94 49 00-0024	EA	24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	21.22
32 94 49 00-0025	EA	36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	40.07
32 94 49 00-0026	EA	48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	55.45

32 96 Transplanting (32 90)

See CSI section 32 94 49 00-0001 for guying.

32 96 33 Shrub Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002	EA	Up To 18" Root Ball, Move Shrubs On Site	77.09
		<i>For >25 To 50, Deduct</i>	-7.71
		<i>For >50, Deduct</i>	-11.56
32 96 33 00-0003	EA	>18" To 24" Root Ball, Move Shrubs On Site	104.30
		<i>For >25 To 50, Deduct</i>	-10.43
		<i>For >50, Deduct</i>	-15.65
32 96 33 00-0004	EA	>24" To 30" Root Ball, Move Shrubs On Site	176.85
		<i>For >25 To 50, Deduct</i>	-17.69
		<i>For >50, Deduct</i>	-26.53
32 96 33 00-0005	EA	>30" To 36" Root Ball, Move Shrubs On Site	272.08
		<i>For >25 To 50, Deduct</i>	-27.21
		<i>For >50, Deduct</i>	-40.81

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0903 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002	EA	Up To 24" Root Ball, Move Trees On Site	298.68
		<i>For >5 To 10, Deduct</i>	-14.93
		<i>For >10 To 20, Deduct</i>	-29.87
		<i>For >20, Deduct</i>	-44.80
32 96 43 00-0003	EA	>24" To 30" Root Ball, Move Trees On Site.....	409.60
		<i>For >5 To 10, Deduct</i>	-20.48
		<i>For >10 To 20, Deduct</i>	-40.96
		<i>For >20, Deduct</i>	-61.44
32 96 43 00-0004	EA	>30" To 36" Root Ball, Move Trees On Site.....	663.72
		<i>For >5 To 10, Deduct</i>	-33.19
		<i>For >10 To 20, Deduct</i>	-66.37
		<i>For >20, Deduct</i>	-99.56
32 96 43 00-0005	EA	>36" To 48" Root Ball, Move Trees On Site.....	1,102.79
		<i>For >5 To 10, Deduct</i>	-55.14
		<i>For >10 To 20, Deduct</i>	-110.28
		<i>For >20, Deduct</i>	-165.42
32 96 43 00-0006	EA	>48" To 60" Root Ball, Move Trees On Site.....	1,792.04
		<i>For >5 To 10, Deduct</i>	-89.60
		<i>For >10 To 20, Deduct</i>	-179.20
		<i>For >20, Deduct</i>	-268.81
32 96 43 00-0007	EA	>60" To 72" Root Ball, Move Trees On Site.....	2,312.30
		<i>For >5 To 10, Deduct</i>	-115.62
		<i>For >10 To 20, Deduct</i>	-231.23
		<i>For >20, Deduct</i>	-346.85
32 96 43 00-0008	EA	>72" To 84" Root Ball, Move Trees On Site.....	2,986.73
		<i>For >5 To 10, Deduct</i>	-149.34
		<i>For >10 To 20, Deduct</i>	-298.67
		<i>For >20, Deduct</i>	-448.01
32 96 43 00-0009	EA	>84" To 96" Root Ball, Move Trees On Site.....	3,584.07
		<i>For >5 To 10, Deduct</i>	-179.20
		<i>For >10 To 20, Deduct</i>	-358.41
		<i>For >20, Deduct</i>	-537.61
32 96 43 00-0010	EA	>96" To 120" Root Ball, Move Trees On Site.....	4,072.81
		<i>For >5 To 10, Deduct</i>	-203.64
		<i>For >10 To 20, Deduct</i>	-407.28
		<i>For >20, Deduct</i>	-610.92

END OF SECTION 32

32	32	Exterior Improvements
	32 90	Planting
	32 96	Transplanting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 Cleaning of Water Utility Piping ^(33 01 10)

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems ^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	1,046.72	
33 01 10 58-0003	EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	523.35	
33 01 10 58-0004	LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.40	
	For >250 To 500, Deduct	-0.02	
	For >500 To 1,000, Deduct	-0.04	
	For >1,000 To 2,000, Deduct	-0.06	
	For >2,000 To 5,000, Deduct	-0.08	
	For >5,000, Deduct	-0.10	
33 01 10 58-0005	LF 6" Diameter Pipe Water Main Disinfection/Sterilization	0.61	
	For >250 To 500, Deduct	-0.03	
	For >500 To 1,000, Deduct	-0.06	
	For >1,000 To 2,000, Deduct	-0.09	
	For >2,000 To 5,000, Deduct	-0.12	
	For >5,000, Deduct	-0.15	
33 01 10 58-0006	LF 8" Diameter Pipe Water Main Disinfection/Sterilization	0.78	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.08	
	For >1,000 To 2,000, Deduct	-0.12	
	For >2,000 To 5,000, Deduct	-0.16	
	For >5,000, Deduct	-0.20	
33 01 10 58-0007	LF 10" Diameter Pipe Water Main Disinfection/Sterilization	0.93	
	For >250 To 500, Deduct	-0.05	
	For >500 To 1,000, Deduct	-0.09	
	For >1,000 To 2,000, Deduct	-0.14	
	For >2,000 To 5,000, Deduct	-0.19	
	For >5,000, Deduct	-0.23	
33 01 10 58-0008	LF 12" Diameter Pipe Water Main Disinfection/Sterilization	1.20	
	For >250 To 500, Deduct	-0.06	
	For >500 To 1,000, Deduct	-0.12	
	For >1,000 To 2,000, Deduct	-0.18	
	For >2,000 To 5,000, Deduct	-0.24	
	For >5,000, Deduct	-0.30	
33 01 10 58-0009	LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.37	
	For >250 To 500, Deduct	-0.07	
	For >500 To 1,000, Deduct	-0.14	
	For >1,000 To 2,000, Deduct	-0.21	
	For >2,000 To 5,000, Deduct	-0.27	
	For >5,000, Deduct	-0.34	
33 01 10 58-0010	LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.57	
	For >250 To 500, Deduct	-0.08	
	For >500 To 1,000, Deduct	-0.16	
	For >1,000 To 2,000, Deduct	-0.24	
	For >2,000 To 5,000, Deduct	-0.31	
	For >5,000, Deduct	-0.39	
33 01 10 58-0011	LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.84	
	For >250 To 500, Deduct	-0.09	
	For >500 To 1,000, Deduct	-0.18	
	For >1,000 To 2,000, Deduct	-0.28	
	For >2,000 To 5,000, Deduct	-0.37	
	For >5,000, Deduct	-0.46	
33 01 10 58-0012	LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.37	
	For >250 To 500, Deduct	-0.12	
	For >500 To 1,000, Deduct	-0.24	
	For >1,000 To 2,000, Deduct	-0.36	
	For >2,000 To 5,000, Deduct	-0.47	
	For >5,000, Deduct	-0.59	
33 01 10 58-0013	LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.49	
	For >250 To 500, Deduct	-0.17	
	For >500 To 1,000, Deduct	-0.35	
	For >1,000 To 2,000, Deduct	-0.52	
	For >2,000 To 5,000, Deduct	-0.70	
	For >5,000, Deduct	-0.87	
33 01 10 58-0014	LF >60" Diameter Pipe Water Main Disinfection/Sterilization	4.83	
	For >250 To 500, Deduct	-0.24	
	For >500 To 1,000, Deduct	-0.48	
	For >1,000 To 2,000, Deduct	-0.72	
	For >2,000 To 5,000, Deduct	-0.97	
	For >5,000, Deduct	-1.21	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**33 01 10 71 Relining Water Utilities Pipelines** (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines <small>(33 01 10 71)</small>		
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion <small>(33 01 10 71-0001)</small>		
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	5,441.40	
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location	2,176.55	
33 01 10 71-0005	Lining Pipe With Cement <small>(33 01 10 71-0001)</small>		
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	65.63	
	For 3/16" Thickness, Add	1.20	
	For 1/4" Thickness, Add	2.40	
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	58.50	
	For 3/16" Thickness, Add	1.20	
	For 1/4" Thickness, Add	2.40	
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	48.92	
	For 3/16" Thickness, Add	1.20	
	For 1/4" Thickness, Add	2.40	
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement	36.91	
	For 3/16" Thickness, Add	1.20	
	For 1/4" Thickness, Add	2.40	
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	68.46	
	For 3/16" Thickness, Add	1.80	
	For 1/4" Thickness, Add	3.59	
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	61.05	
	For 3/16" Thickness, Add	1.80	
	For 1/4" Thickness, Add	3.59	
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	51.15	
	For 3/16" Thickness, Add	1.80	
	For 1/4" Thickness, Add	3.59	
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement	38.98	
	For 3/16" Thickness, Add	1.80	
	For 1/4" Thickness, Add	3.59	
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	71.18	
	For 3/16" Thickness, Add	2.39	
	For 1/4" Thickness, Add	4.78	
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	63.61	
	For 3/16" Thickness, Add	2.39	
	For 1/4" Thickness, Add	4.78	
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	53.38	
	For 3/16" Thickness, Add	2.39	
	For 1/4" Thickness, Add	4.78	
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement	41.04	
	For 3/16" Thickness, Add	2.39	
	For 1/4" Thickness, Add	4.78	
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	73.32	
	For 3/16" Thickness, Add	3.00	
	For 1/4" Thickness, Add	5.99	
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	65.62	
	For 3/16" Thickness, Add	3.00	
	For 1/4" Thickness, Add	5.99	
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	55.24	
	For 3/16" Thickness, Add	3.00	
	For 1/4" Thickness, Add	5.99	
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement	43.12	
	For 3/16" Thickness, Add	3.00	
	For 1/4" Thickness, Add	5.99	
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	79.37	
	For 3/16" Thickness, Add	3.59	
	For 1/4" Thickness, Add	7.18	
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	71.19	
	For 3/16" Thickness, Add	3.59	
	For 1/4" Thickness, Add	7.18	
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	60.15	
	For 3/16" Thickness, Add	3.59	
	For 1/4" Thickness, Add	7.18	
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement	47.05	
	For 3/16" Thickness, Add	3.59	
	For 1/4" Thickness, Add	7.18	
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	86.35	
	For 1/4" Thickness, Add	3.99	
	For 5/16" Thickness, Add	7.99	
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	77.87	
	For 1/4" Thickness, Add	3.99	
	For 5/16" Thickness, Add	7.99	
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	66.37	
	For 1/4" Thickness, Add	3.99	
	For 5/16" Thickness, Add	7.99	
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	53.81	
	For 1/4" Thickness, Add	3.99	
	For 5/16" Thickness, Add	7.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	90.92	
<i>For 1/4" Thickness, Add</i>	4.79	
<i>For 5/16" Thickness, Add</i>	9.57	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	82.17	
<i>For 1/4" Thickness, Add</i>	4.79	
<i>For 5/16" Thickness, Add</i>	9.57	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	70.28	
<i>For 1/4" Thickness, Add</i>	4.79	
<i>For 5/16" Thickness, Add</i>	9.57	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	58.37	
<i>For 1/4" Thickness, Add</i>	4.79	
<i>For 5/16" Thickness, Add</i>	9.57	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	96.49	
<i>For 1/4" Thickness, Add</i>	5.59	
<i>For 5/16" Thickness, Add</i>	11.17	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	87.44	
<i>For 1/4" Thickness, Add</i>	5.59	
<i>For 5/16" Thickness, Add</i>	11.17	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	74.98	
<i>For 1/4" Thickness, Add</i>	5.59	
<i>For 5/16" Thickness, Add</i>	11.17	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	63.83	
<i>For 1/4" Thickness, Add</i>	5.59	
<i>For 5/16" Thickness, Add</i>	11.17	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	102.16	
<i>For 1/4" Thickness, Add</i>	6.39	
<i>For 5/16" Thickness, Add</i>	12.77	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	92.73	
<i>For 1/4" Thickness, Add</i>	6.39	
<i>For 5/16" Thickness, Add</i>	12.77	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	79.89	
<i>For 1/4" Thickness, Add</i>	6.39	
<i>For 5/16" Thickness, Add</i>	12.77	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	69.50	
<i>For 1/4" Thickness, Add</i>	6.39	
<i>For 5/16" Thickness, Add</i>	12.77	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	110.10	
<i>For 1/4" Thickness, Add</i>	7.98	
<i>For 5/16" Thickness, Add</i>	15.95	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	100.13	
<i>For 1/4" Thickness, Add</i>	7.98	
<i>For 5/16" Thickness, Add</i>	15.95	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	86.51	
<i>For 1/4" Thickness, Add</i>	7.98	
<i>For 5/16" Thickness, Add</i>	15.95	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	76.03	
<i>For 1/4" Thickness, Add</i>	7.98	
<i>For 5/16" Thickness, Add</i>	15.95	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	117.96	
<i>For 1/4" Thickness, Add</i>	9.58	
<i>For 5/16" Thickness, Add</i>	19.15	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	107.55	
<i>For 1/4" Thickness, Add</i>	9.58	
<i>For 5/16" Thickness, Add</i>	19.15	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	93.17	
<i>For 1/4" Thickness, Add</i>	9.58	
<i>For 5/16" Thickness, Add</i>	19.15	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	82.57	
<i>For 1/4" Thickness, Add</i>	9.58	
<i>For 5/16" Thickness, Add</i>	19.15	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	147.80	
<i>For 3/8" Thickness, Add</i>	25.14	
<i>For 7/16" Thickness, Add</i>	37.70	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	136.45	
<i>For 3/8" Thickness, Add</i>	25.14	
<i>For 7/16" Thickness, Add</i>	37.70	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	120.82	
<i>For 3/8" Thickness, Add</i>	25.14	
<i>For 7/16" Thickness, Add</i>	37.70	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	109.90	
<i>For 3/8" Thickness, Add</i>	25.14	
<i>For 7/16" Thickness, Add</i>	37.70	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	163.17	
<i>For 3/8" Thickness, Add</i>	28.73	
<i>For 7/16" Thickness, Add</i>	43.09	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	151.03	
<i>For 3/8" Thickness, Add</i>	28.73	
<i>For 7/16" Thickness, Add</i>	43.09	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	134.23	
<i>For 3/8" Thickness, Add</i>	28.73	
<i>For 7/16" Thickness, Add</i>	43.09	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	123.09	
<i>For 3/8" Thickness, Add</i>	28.73	
<i>For 7/16" Thickness, Add</i>	43.09	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 10 Operation and Maintenance of Water Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	10 71-0058	LF	Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	172.31 32.31 48.47	
33 01	10 71-0059	LF	>500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	159.91 32.31 48.47	
33 01	10 71-0060	LF	>1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	142.71 32.31 48.47	
33 01	10 71-0061	LF	>5,000', 54" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	132.00 32.31 48.47	
33 01	10 71-0062	LF	Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	181.47 35.91 53.87	
33 01	10 71-0063	LF	>500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	168.86 35.91 53.87	
33 01	10 71-0064	LF	>1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	151.33 35.91 53.87	
33 01	10 71-0065	LF	>5,000', 60" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	140.95 35.91 53.87	
33 01	10 71-0066	LF	Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	190.94 39.50 59.25	
33 01	10 71-0067	LF	>500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	178.06 39.50 59.25	
33 01	10 71-0068	LF	>1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	160.26 39.50 59.25	
33 01	10 71-0069	LF	>5,000', 66" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	150.64 39.50 59.25	
33 01	10 71-0070	LF	Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	200.86 43.09 64.64	
33 01	10 71-0071	LF	>500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	187.75 43.09 64.64	
33 01	10 71-0072	LF	>1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	169.51 43.09 64.64	
33 01	10 71-0073	LF	>5,000', 72" Pipe, 1/4" Pipe Lining With Cement <i>For 3/8" Thickness, Add</i> <i>For 7/16" Thickness, Add</i>	160.45 43.09 64.64	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)

33 01 30 11 Television Inspection Of Pipelines (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)

33 01 30 11-0002 Video Camera Set-up (33 01 30 11-0001)

Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).

33 01 30 11-0003	EA	Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	932.81
33 01 30 11-0004	EA	Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,865.62
33 01 30 11-0005	EA	Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert.....	2,798.44
33 01 30 11-0006	EA	Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	466.41
33 01 30 11-0007	EA	Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	932.81

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009	LF	4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase	2.37
		Note: CCTV inspection of pipe interior.	
		<i>For >500 To 1,000, Deduct</i>	-0.24
		<i>For >1,000 To 5,000, Deduct</i>	-0.59
		<i>For >5,000, Deduct</i>	-0.83
33 01 30 11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.15
		Note: CCTV inspection of pipe interior.	
		<i>For >500 To 1,000, Deduct</i>	-0.32
		<i>For >1,000 To 5,000, Deduct</i>	-0.79
		<i>For >5,000, Deduct</i>	-1.10
33 01 30 11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.94
		Note: CCTV inspection of pipe interior.	
		<i>For >500 To 1,000, Deduct</i>	-0.39
		<i>For >1,000 To 5,000, Deduct</i>	-0.99
		<i>For >5,000, Deduct</i>	-1.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.25	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.53	
For >1,000 To 5,000, Deduct	-1.31	
For >5,000, Deduct	-1.84	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.39	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 5,000, Deduct	-1.85	
For >5,000, Deduct	-2.59	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	9.86	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 5,000, Deduct	-2.47	
For >5,000, Deduct	-3.45	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	13.91	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.39	
For >1,000 To 5,000, Deduct	-3.48	
For >5,000, Deduct	-4.87	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	19.71	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.97	
For >1,000 To 5,000, Deduct	-4.93	
For >5,000, Deduct	-6.90	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase	3.50	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 5,000, Deduct	-0.88	
For >5,000, Deduct	-1.23	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.66	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-1.63	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.83	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.58	
For >1,000 To 5,000, Deduct	-1.46	
For >5,000, Deduct	-2.04	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	7.78	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 5,000, Deduct	-1.95	
For >5,000, Deduct	-2.72	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	10.93	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.09	
For >1,000 To 5,000, Deduct	-2.73	
For >5,000, Deduct	-3.83	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	14.57	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.46	
For >1,000 To 5,000, Deduct	-3.64	
For >5,000, Deduct	-5.10	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	20.58	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.06	
For >1,000 To 5,000, Deduct	-5.15	
For >5,000, Deduct	-7.20	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	29.15	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.92	
For >1,000 To 5,000, Deduct	-7.29	
For >5,000, Deduct	-10.20	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.50	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.25	
For >1,000 To 5,000, Deduct	-0.63	
For >5,000, Deduct	-0.88	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.33	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-1.17	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	4.16	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 5,000, Deduct	-1.04	
For >5,000, Deduct	-1.46	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.55	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-1.94	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.80	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 5,000, Deduct	-1.95	
For >5,000, Deduct	-2.73	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	10.41	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 5,000, Deduct	-2.60	
For >5,000, Deduct	-3.64	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	14.70	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 5,000, Deduct	-3.68	
For >5,000, Deduct	-5.15	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	20.82	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.08	
For >1,000 To 5,000, Deduct	-5.21	
For >5,000, Deduct	-7.29	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
Note: Includes mobilization delivery, set-up, clean-up after use and return.		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Up To 8" Jet Cleaning.....	1,437.53	
33 01 30 41-0005 EA Initial Set Up And Final Equipment Removal For >8" To 12" Jet Cleaning.....	2,156.29	
33 01 30 41-0006 EA Initial Set Up And Final Equipment Removal For >12" To 30" Jet Cleaning.....	2,875.06	
33 01 30 41-0007 EA Initial Set Up And Final Equipment Removal For >30" Jet Cleaning.....	3,833.40	
33 01 30 41-0008 EA Move And Reset Up At Different Access/Location For Up To 8" Jet Cleaning.....	359.39	
33 01 30 41-0009 EA Move And Reset Up At Different Access/Location For >8" To 12" Jet Cleaning.....	539.07	
33 01 30 41-0010 EA Move And Reset Up At Different Access/Location For >12" To 30" Jet Cleaning.....	718.76	
33 01 30 41-0011 EA Move And Reset Up At Different Access/Location For >30" Jet Cleaning.....	898.46	
33 01 30 41-0012 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		
33 01 30 41-0013 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.87	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.39	
For >1,000 To 2,000, Deduct	-0.58	
For >2,000 To 5,000, Deduct	-0.77	
For >5,000, Deduct	-0.97	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.90	
33 01 30 41-0014 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	4.43	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.44	
For >1,000 To 2,000, Deduct	-0.66	
For >2,000 To 5,000, Deduct	-0.89	
For >5,000, Deduct	-1.11	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.32	
33 01 30 41-0015 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	5.21	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.52	
For >1,000 To 2,000, Deduct	-0.78	
For >2,000 To 5,000, Deduct	-1.04	
For >5,000, Deduct	-1.30	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.91	
33 01 30 41-0016 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	6.44	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.64	
For >1,000 To 2,000, Deduct	-0.97	
For >2,000 To 5,000, Deduct	-1.29	
For >5,000, Deduct	-1.61	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.83	
33 01 30 41-0017 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.31	
For >250 To 500, Deduct	-0.37	
For >500 To 1,000, Deduct	-0.73	
For >1,000 To 2,000, Deduct	-1.10	
For >2,000 To 5,000, Deduct	-1.46	
For >5,000, Deduct	-1.83	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0018 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.44	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500 To 1,000, Deduct</i>	-0.84	
<i>For >1,000 To 2,000, Deduct</i>	-1.27	
<i>For >2,000 To 5,000, Deduct</i>	-1.69	
<i>For >5,000, Deduct</i>	-2.11	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	6.33	
33 01 30 41-0019 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	10.15	
<i>For >250 To 500, Deduct</i>	-0.51	
<i>For >500 To 1,000, Deduct</i>	-1.02	
<i>For >1,000 To 2,000, Deduct</i>	-1.52	
<i>For >2,000 To 5,000, Deduct</i>	-2.03	
<i>For >5,000, Deduct</i>	-2.54	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	7.61	
33 01 30 41-0020 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	11.52	
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500 To 1,000, Deduct</i>	-1.15	
<i>For >1,000 To 2,000, Deduct</i>	-1.73	
<i>For >2,000 To 5,000, Deduct</i>	-2.30	
<i>For >5,000, Deduct</i>	-2.88	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	8.64	
33 01 30 41-0021 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	13.61	
<i>For >250 To 500, Deduct</i>	-0.68	
<i>For >500 To 1,000, Deduct</i>	-1.36	
<i>For >1,000 To 2,000, Deduct</i>	-2.04	
<i>For >2,000 To 5,000, Deduct</i>	-2.72	
<i>For >5,000, Deduct</i>	-3.40	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	10.21	
33 01 30 41-0022 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	17.11	
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500 To 1,000, Deduct</i>	-1.71	
<i>For >1,000 To 2,000, Deduct</i>	-2.57	
<i>For >2,000 To 5,000, Deduct</i>	-3.42	
<i>For >5,000, Deduct</i>	-4.28	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	12.83	
33 01 30 41-0023 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	19.96	
<i>For >250 To 500, Deduct</i>	-1.00	
<i>For >500 To 1,000, Deduct</i>	-2.00	
<i>For >1,000 To 2,000, Deduct</i>	-2.99	
<i>For >2,000 To 5,000, Deduct</i>	-3.99	
<i>For >5,000, Deduct</i>	-4.99	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	14.97	
33 01 30 41-0024 Flushing Of Storm Water Pipelines <small>(33 01 30 41-0002)</small>		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025 LF 12" To 16" Diameter Pipe Line Flushing.....	11.45	
<i>For >250 To 500, Deduct</i>	-0.07	
<i>For >500 To 1,000, Deduct</i>	-0.15	
<i>For >1,000 To 2,000, Deduct</i>	-0.22	
<i>For >2,000 To 5,000, Deduct</i>	-0.29	
<i>For >5,000, Deduct</i>	-0.36	
33 01 30 41-0026 LF >16" To 24" Diameter Pipe Line Flushing.....	11.67	
<i>For >250 To 500, Deduct</i>	-0.08	
<i>For >500 To 1,000, Deduct</i>	-0.17	
<i>For >1,000 To 2,000, Deduct</i>	-0.25	
<i>For >2,000 To 5,000, Deduct</i>	-0.33	
<i>For >5,000, Deduct</i>	-0.42	
33 01 30 41-0027 LF >24" To 30" Diameter Pipe Line Flushing.....	11.96	
<i>For >250 To 500, Deduct</i>	-0.10	
<i>For >500 To 1,000, Deduct</i>	-0.20	
<i>For >1,000 To 2,000, Deduct</i>	-0.29	
<i>For >2,000 To 5,000, Deduct</i>	-0.39	
<i>For >5,000, Deduct</i>	-0.49	
33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing.....	12.25	
<i>For >250 To 500, Deduct</i>	-0.11	
<i>For >500 To 1,000, Deduct</i>	-0.23	
<i>For >1,000 To 2,000, Deduct</i>	-0.34	
<i>For >2,000 To 5,000, Deduct</i>	-0.45	
<i>For >5,000, Deduct</i>	-0.56	
33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing.....	13.00	
<i>For >250 To 500, Deduct</i>	-0.15	
<i>For >500 To 1,000, Deduct</i>	-0.30	
<i>For >1,000 To 2,000, Deduct</i>	-0.45	
<i>For >2,000 To 5,000, Deduct</i>	-0.60	
<i>For >5,000, Deduct</i>	-0.75	
33 01 30 41-0030 Hydro Jet Cleaning Of Culverts <small>(33 01 30 41-0002)</small>		
33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF.....	17.88	
<i>For >250 To 500, Deduct</i>	-0.89	
<i>For >500 To 1,000, Deduct</i>	-1.79	
<i>For >1,000 To 2,000, Deduct</i>	-2.68	
<i>For >2,000 To 5,000, Deduct</i>	-3.58	
<i>For >5,000, Deduct</i>	-4.47	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

33 01 30 41-0032		Pipe Line Cleaning, Mechanical Method <small>(33 01 30 41-0001)</small>	
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.			
33 01 30 41-0033	EA	Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,256.06
33 01 30 41-0034	EA	Move And Reset Up At Different Access/Location.....	418.69
33 01 30 41-0035	LF	Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	7.28
		<i>For >250 To 500, Deduct</i>	-0.35
		<i>For >500 To 1,000, Deduct</i>	-0.70
		<i>For >1,000 To 2,000, Deduct</i>	-1.05
		<i>For >2,000 To 5,000, Deduct</i>	-1.40
		<i>For >5,000, Deduct</i>	-1.75
33 01 30 41-0036	LF	6" Diameter Pipe Line Cleaning, Mechanical Method	9.57
		<i>For >250 To 500, Deduct</i>	-0.45
		<i>For >500 To 1,000, Deduct</i>	-0.90
		<i>For >1,000 To 2,000, Deduct</i>	-1.35
		<i>For >2,000 To 5,000, Deduct</i>	-1.79
		<i>For >5,000, Deduct</i>	-2.24
33 01 30 41-0037	LF	8" Diameter Pipe Line Cleaning, Mechanical Method	11.22
		<i>For >250 To 500, Deduct</i>	-0.52
		<i>For >500 To 1,000, Deduct</i>	-1.05
		<i>For >1,000 To 2,000, Deduct</i>	-1.57
		<i>For >2,000 To 5,000, Deduct</i>	-2.09
		<i>For >5,000, Deduct</i>	-2.62
33 01 30 41-0038	LF	10" Diameter Pipe Line Cleaning, Mechanical Method	12.98
		<i>For >250 To 500, Deduct</i>	-0.60
		<i>For >500 To 1,000, Deduct</i>	-1.21
		<i>For >1,000 To 2,000, Deduct</i>	-1.81
		<i>For >2,000 To 5,000, Deduct</i>	-2.42
		<i>For >5,000, Deduct</i>	-3.02
33 01 30 41-0039	LF	12" Diameter Pipe Line Cleaning, Mechanical Method	14.14
		<i>For >250 To 500, Deduct</i>	-0.65
		<i>For >500 To 1,000, Deduct</i>	-1.31
		<i>For >1,000 To 2,000, Deduct</i>	-1.96
		<i>For >2,000 To 5,000, Deduct</i>	-2.62
		<i>For >5,000, Deduct</i>	-3.27
33 01 30 41-0040	LF	>12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	16.30
		<i>For >250 To 500, Deduct</i>	-0.75
		<i>For >500 To 1,000, Deduct</i>	-1.50
		<i>For >1,000 To 2,000, Deduct</i>	-2.24
		<i>For >2,000 To 5,000, Deduct</i>	-2.99
		<i>For >5,000, Deduct</i>	-3.74
33 01 30 41-0041	LF	>16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	20.58
		<i>For >250 To 500, Deduct</i>	-0.92
		<i>For >500 To 1,000, Deduct</i>	-1.85
		<i>For >1,000 To 2,000, Deduct</i>	-2.77
		<i>For >2,000 To 5,000, Deduct</i>	-3.69
		<i>For >5,000, Deduct</i>	-4.62
33 01 30 41-0042	LF	>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	23.60
		<i>For >250 To 500, Deduct</i>	-1.03
		<i>For >500 To 1,000, Deduct</i>	-2.06
		<i>For >1,000 To 2,000, Deduct</i>	-3.09
		<i>For >2,000 To 5,000, Deduct</i>	-4.12
		<i>For >5,000, Deduct</i>	-5.15
33 01 30 41-0043	LF	>30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	27.46
		<i>For >250 To 500, Deduct</i>	-1.19
		<i>For >500 To 1,000, Deduct</i>	-2.37
		<i>For >1,000 To 2,000, Deduct</i>	-3.56
		<i>For >2,000 To 5,000, Deduct</i>	-4.74
		<i>For >5,000, Deduct</i>	-5.93
33 01 30 41-0044	LF	>42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	35.91
		<i>For >250 To 500, Deduct</i>	-1.57
		<i>For >500 To 1,000, Deduct</i>	-3.14
		<i>For >1,000 To 2,000, Deduct</i>	-4.71
		<i>For >2,000 To 5,000, Deduct</i>	-6.28
		<i>For >5,000, Deduct</i>	-7.85
33 01 30 41-0045	LF	>60" Diameter Pipe Line Cleaning, Mechanical Method	40.91
		<i>For >250 To 500, Deduct</i>	-1.74
		<i>For >500 To 1,000, Deduct</i>	-3.49
		<i>For >1,000 To 2,000, Deduct</i>	-5.23
		<i>For >2,000 To 5,000, Deduct</i>	-6.98
		<i>For >5,000, Deduct</i>	-8.72
33 01 30 41-0046		Pipe Line Auguring/Rod Out Pipe <small>(33 01 30 41-0001)</small>	
33 01 30 41-0047	EA	Initial Set Up And Final Equipment Removal For Auguring.....	1,256.06
33 01 30 41-0048	EA	Move And Reset Up At Different Location	418.69
33 01 30 41-0049	LF	Up To 4" Diameter Pipe Line Auguring/Rod Out.....	4.19
		<i>For >250 To 500, Deduct</i>	-0.21
		<i>For >500 To 1,000, Deduct</i>	-0.42
		<i>For >1,000 To 2,000, Deduct</i>	-0.63
		<i>For >2,000 To 5,000, Deduct</i>	-0.84
		<i>For >5,000, Deduct</i>	-1.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0050 LF 6" Diameter Pipe Line Auguring/Rod Out	5.41	
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500 To 1,000, Deduct</i>	-0.54	
<i>For >1,000 To 2,000, Deduct</i>	-0.81	
<i>For >2,000 To 5,000, Deduct</i>	-1.08	
<i>For >5,000, Deduct</i>	-1.35	
33 01 30 41-0051 LF 8" Diameter Pipe Line Auguring/Rod Out	6.28	
<i>For >250 To 500, Deduct</i>	-0.31	
<i>For >500 To 1,000, Deduct</i>	-0.63	
<i>For >1,000 To 2,000, Deduct</i>	-0.94	
<i>For >2,000 To 5,000, Deduct</i>	-1.26	
<i>For >5,000, Deduct</i>	-1.57	
33 01 30 41-0052 LF 10" Diameter Pipe Line Auguring/Rod Out	7.30	
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500 To 1,000, Deduct</i>	-0.73	
<i>For >1,000 To 2,000, Deduct</i>	-1.10	
<i>For >2,000 To 5,000, Deduct</i>	-1.46	
<i>For >5,000, Deduct</i>	-1.83	
33 01 30 41-0053 LF 12" Diameter Pipe Line Auguring/Rod Out	7.85	
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500 To 1,000, Deduct</i>	-0.79	
<i>For >1,000 To 2,000, Deduct</i>	-1.18	
<i>For >2,000 To 5,000, Deduct</i>	-1.57	
<i>For >5,000, Deduct</i>	-1.96	
33 01 30 41-0054 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out	8.97	
<i>For >250 To 500, Deduct</i>	-0.45	
<i>For >500 To 1,000, Deduct</i>	-0.90	
<i>For >1,000 To 2,000, Deduct</i>	-1.35	
<i>For >2,000 To 5,000, Deduct</i>	-1.79	
<i>For >5,000, Deduct</i>	-2.24	
33 01 30 41-0055 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out	11.02	
<i>For >250 To 500, Deduct</i>	-0.55	
<i>For >500 To 1,000, Deduct</i>	-1.10	
<i>For >1,000 To 2,000, Deduct</i>	-1.65	
<i>For >2,000 To 5,000, Deduct</i>	-2.20	
<i>For >5,000, Deduct</i>	-2.76	
33 01 30 41-0056 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out	12.31	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500 To 1,000, Deduct</i>	-1.23	
<i>For >1,000 To 2,000, Deduct</i>	-1.85	
<i>For >2,000 To 5,000, Deduct</i>	-2.46	
<i>For >5,000, Deduct</i>	-3.08	
33 01 30 41-0057 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out	14.27	
<i>For >250 To 500, Deduct</i>	-0.71	
<i>For >500 To 1,000, Deduct</i>	-1.43	
<i>For >1,000 To 2,000, Deduct</i>	-2.14	
<i>For >2,000 To 5,000, Deduct</i>	-2.85	
<i>For >5,000, Deduct</i>	-3.57	
33 01 30 41-0058 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	19.63	
<i>For >250 To 500, Deduct</i>	-0.98	
<i>For >500 To 1,000, Deduct</i>	-1.96	
<i>For >1,000 To 2,000, Deduct</i>	-2.94	
<i>For >2,000 To 5,000, Deduct</i>	-3.93	
<i>For >5,000, Deduct</i>	-4.91	
33 01 30 41-0059 LF >60" Diameter Pipe Line Auguring/Rod Out	20.94	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500 To 1,000, Deduct</i>	-2.09	
<i>For >1,000 To 2,000, Deduct</i>	-3.14	
<i>For >2,000 To 5,000, Deduct</i>	-4.19	
<i>For >5,000, Deduct</i>	-5.24	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)
 Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Waste Water Drain	54.61
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	109.21
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	21.84
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	24.03
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	27.30
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	31.67
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage	37.13
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage	43.69
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage	51.33
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage	58.97
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage	68.81
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage	81.91
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	273.04
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	900.05
<i>For >10 To 100, Deduct</i>	-135.01
<i>For >100 To 250, Deduct</i>	-202.51
<i>For >250, Deduct</i>	-270.02

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 42-0017	EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand..... <i>For >10 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250, Deduct</i>	1,080.05 -162.01 -243.01 -324.02	
33 01 30 42-0018	EA Clean Out Blocked Catch Basin By Hand..... <i>For >10 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250, Deduct</i>	540.03 -81.00 -121.51 -162.01	
33 01 30 42-0019	Cleaning Manholes And Drainage Structures With Jet/Vacuum <small>(33 01 30 42-0001)</small> Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020	EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes.....	299.02	
33 01 30 42-0021	EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes.....	277.90	
33 01 30 42-0022	EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes.....	256.78	
33 01 30 42-0023	EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes.....	235.65	
33 01 30 42-0024	EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes.....	214.53	
33 01 30 42-0025	EA Jet/Vacuum Clean >250 Catch Basins Or Manholes.....	193.40	
33 01 30 51	Maintenance of Utilities <small>(33 01 30)</small>		
33 01 30 51-0001	Pipe Repair <small>(33 01 30 51)</small> Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.		
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band <small>(33 01 30 51-0001)</small> Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	130.53 20.64	
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	184.69 31.10	
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	213.06 36.63	
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	242.55 42.14	
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	140.73 22.41	
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	196.25 33.19	
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	224.66 38.59	
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	259.38 45.15	
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	151.13 24.52	
33 01 30 51-0012	EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	204.04 34.70	
33 01 30 51-0013	EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	235.62 40.68	
33 01 30 51-0014	EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	274.30 48.30	
33 01 30 51-0015	EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	170.17 27.88	
33 01 30 51-0016	EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	224.43 37.53	
33 01 30 51-0017	EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	272.09 45.68	
33 01 30 51-0018	EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	327.76 55.11	
33 01 30 51-0019	EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	427.61 74.02	
33 01 30 51-0020	EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	531.59 92.93	
33 01 30 51-0021	EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	648.24 113.99	
33 01 30 51-0022	EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	199.99 32.90	
33 01 30 51-0023	EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	265.21 44.63	
33 01 30 51-0024	EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	314.22 52.62	
33 01 30 51-0025	EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	368.37 61.15	
33 01 30 51-0026	EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	508.26 88.61	
33 01 30 51-0027	EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	617.86 108.06	
33 01 30 51-0028	EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	737.93 129.12	
33 01 30 51-0029	EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	262.24 39.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	340.33 52.08	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	410.68 63.02	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	490.53 75.10	
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	649.39 104.04	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	776.68 124.41	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	920.26 146.43	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	306.23 47.90	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	410.52 66.26	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	483.75 77.47	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	593.15 95.82	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	776.93 129.97	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	885.56 145.27	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,137.36 191.65	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	348.81 54.03	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	454.80 71.86	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	548.91 86.96	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	674.81 108.06	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	866.54 142.72	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,019.62 166.67	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,293.78 216.11	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small>		
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	766.34 207.89	
33 01 30 51-0052 EA 14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,084.63 300.12	
33 01 30 51-0053 EA 14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,459.56 407.00	
33 01 30 51-0054 EA 14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,145.30 613.43	
33 01 30 51-0055 EA 15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	804.39 218.12	
33 01 30 51-0056 EA 15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,135.45 314.03	
33 01 30 51-0057 EA 15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,524.31 424.56	
33 01 30 51-0058 EA 15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,249.02 642.70	
33 01 30 51-0059 EA 15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	825.32 222.53	
33 01 30 51-0060 EA 15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,162.94 319.90	
33 01 30 51-0061 EA 15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,564.85 434.08	
33 01 30 51-0062 EA 15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,306.98 656.60	
33 01 30 51-0063 EA 16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	847.35 226.92	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0064 EA 16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,194.29	
For Stainless Steel Nuts And Bolts, Add	326.48	
33 01 30 51-0065 EA 16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,604.47	
For Stainless Steel Nuts And Bolts, Add	442.13	
33 01 30 51-0066 EA 16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,365.12	
For Stainless Steel Nuts And Bolts, Add	669.79	
33 01 30 51-0067 EA 17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	867.24	
For Stainless Steel Nuts And Bolts, Add	230.58	
33 01 30 51-0068 EA 17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,221.28	
For Stainless Steel Nuts And Bolts, Add	331.60	
33 01 30 51-0069 EA 17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,644.07	
For Stainless Steel Nuts And Bolts, Add	450.18	
33 01 30 51-0070 EA 17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,417.94	
For Stainless Steel Nuts And Bolts, Add	680.76	
33 01 30 51-0071 EA 17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	886.00	
For Stainless Steel Nuts And Bolts, Add	234.25	
33 01 30 51-0072 EA 17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,248.75	
For Stainless Steel Nuts And Bolts, Add	337.45	
33 01 30 51-0073 EA 17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,679.29	
For Stainless Steel Nuts And Bolts, Add	457.50	
33 01 30 51-0074 EA 17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,452.27	
For Stainless Steel Nuts And Bolts, Add	686.25	
33 01 30 51-0075 EA 18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	907.38	
For Stainless Steel Nuts And Bolts, Add	238.81	
33 01 30 51-0076 EA 18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,281.11	
For Stainless Steel Nuts And Bolts, Add	344.77	
33 01 30 51-0077 EA 18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,716.61	
For Stainless Steel Nuts And Bolts, Add	465.55	
33 01 30 51-0078 EA 18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,526.44	
For Stainless Steel Nuts And Bolts, Add	705.65	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling.....	112.57	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling.....	130.48	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling.....	153.54	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling.....	172.38	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling.....	272.60	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow.....	137.93	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow.....	157.17	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow.....	330.24	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....	123.22	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....	111.48	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	130.56	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	163.22	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee.....	257.44	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee.....	191.21	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee.....	227.67	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee.....	182.72	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter.....	120.19	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter.....	93.99	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter.....	105.52	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter.....	126.23	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter.....	154.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter.....	167.53	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter.....	142.15	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter.....	148.21	
33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)		
Note: Includes gaskets.		
33 01 30 51-0112 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring	75.48	
33 01 30 51-0113 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring	75.43	
33 01 30 51-0114 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring	84.69	
33 01 30 51-0115 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring	94.05	
33 01 30 51-0116 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring	116.12	
33 01 30 51-0117 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring	141.45	
33 01 30 51-0118 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	77.72	
33 01 30 51-0119 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	77.92	
33 01 30 51-0120 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	85.07	
33 01 30 51-0121 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	95.21	
33 01 30 51-0122 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	119.90	
33 01 30 51-0123 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	143.11	
33 01 30 51-0124 EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	152.66	
33 01 30 51-0125 EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	178.63	
33 01 30 51-0126 EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	185.05	
33 01 30 51-0127 EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	206.93	
33 01 30 51-0128 EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	251.99	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0130 EA 3/4" x 1/2" Reducing Coupling (Compression).....	82.95	
33 01 30 51-0131 EA 1" x 3/4" Reducing Coupling (Compression).....	87.14	
33 01 30 51-0132 EA 1-1/4" x 3/4" Reducing Coupling (Compression).....	98.16	
33 01 30 51-0133 EA 1-1/4" x 1" Reducing Coupling (Compression).....	102.31	
33 01 30 51-0134 EA 1-1/2" x 3/4" Reducing Coupling (Compression).....	202.78	
33 01 30 51-0135 EA 1-1/2" x 1" Reducing Coupling (Compression).....	122.56	
33 01 30 51-0136 EA 1-1/2" x 1-1/4" Reducing Coupling (Compression)	123.14	
33 01 30 51-0137 EA 2" x 3/4" Reducing Coupling (Compression).....	242.11	
33 01 30 51-0138 EA 2" x 1" Reducing Coupling (Compression).....	219.07	
33 01 30 51-0139 EA 2" x 1-1/4" Reducing Coupling (Compression).....	164.24	
33 01 30 51-0140 EA 2" x 1-1/2" Reducing Coupling (Compression).....	163.63	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" 45 Degree Elbow (Compression).....	140.03	
33 01 30 51-0143 EA 1-1/4" 45 Degree Elbow (Compression)	145.17	
33 01 30 51-0144 EA 1-1/2" 45 Degree Elbow (Compression)	187.87	
33 01 30 51-0145 EA 2" 45 Degree Elbow (Compression).....	237.81	
33 01 30 51-0146 EA 3/4" 90 Degree Elbow (Compression).....	92.51	
33 01 30 51-0147 EA 1" 90 Degree Elbow (Compression).....	95.14	
33 01 30 51-0148 EA 1-1/4" 90 Degree Elbow (Compression)	111.64	
33 01 30 51-0149 EA 1-1/2" 90 Degree Elbow (Compression)	160.68	
33 01 30 51-0150 EA 2" 90 Degree Elbow (Compression).....	174.94	
33 01 30 51-0151 EA 3/4" Plain End 90 Degree Street Elbow (Compression).....	92.82	
33 01 30 51-0152 EA 1" Plain End 90 Degree Street Elbow (Compression).....	80.20	
33 01 30 51-0153 EA 1-1/4" Plain End 90 Degree Street Elbow (Compression).....	90.49	
33 01 30 51-0154 EA 1-1/2" Plain End 90 Degree Street Elbow (Compression).....	114.58	
33 01 30 51-0155 EA 2" Plain End 90 Degree Street Elbow (Compression).....	148.86	
33 01 30 51-0156 EA 3/4" Threaded End 90 Degree Street Elbow (Compression)	96.07	
33 01 30 51-0157 EA 1" Threaded End 90 Degree Street Elbow (Compression)	86.28	
33 01 30 51-0158 EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression)	113.08	
33 01 30 51-0159 EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression)	136.13	
33 01 30 51-0160 EA 2" Threaded End 90 Degree Street Elbow (Compression)	194.97	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Street Tee (Compression)	99.57	
33 01 30 51-0163 EA 1" Street Tee (Compression)	117.28	
33 01 30 51-0164 EA 1-1/4" Street Tee (Compression).....	117.25	
33 01 30 51-0165 EA 1-1/2" Street Tee (Compression).....	134.34	
33 01 30 51-0166 EA 2" Street Tee (Compression)	207.53	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....	116.08	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....	121.97	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....	152.79	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....	179.39	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....	180.57	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....	150.28	
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression).....	201.78	
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression).....	231.34	
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression).....	188.24	
33 01 30 51-0176	EA	1" Welding Street Tee (Compression).....	187.47	
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression).....	200.43	
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression).....	240.74	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression).....	326.21	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression).....	136.65	
33 01 30 51-0181	EA	1" Regular Tee (Compression).....	243.74	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression).....	256.59	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression).....	273.68	
33 01 30 51-0184	EA	2" Regular Tee (Compression).....	302.27	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	297.53	

33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	92.24	
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	102.51	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	134.68	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	151.23	
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	169.99	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	133.92	

33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression).....	49.76	
33 01 30 51-0195	EA	1" Line Caps (Compression).....	57.92	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	66.22	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	77.67	
33 01 30 51-0198	EA	2" Line Caps (Compression).....	96.07	

33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	73.38	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	90.43	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket.....	103.41	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	122.70	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	151.75	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	203.70	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	190.77	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	248.34	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	256.16	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	263.99	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	286.42	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	299.70	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	316.35	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	372.12	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	377.36	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	396.46	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	395.55	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	409.73	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	427.84	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	461.21	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	482.18	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	499.39	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	570.57	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	669.55	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	648.69	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	858.50	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	994.50	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,192.43	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,312.67	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,417.26	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,783.96	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,876.81	

33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected, Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	75.63	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	90.12	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	103.27	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	121.66	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	181.60	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	177.49	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	179.55	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	263.99	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 51-0241	EA	3"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	271.81	
33 01 30 51-0242	EA	3"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	279.63	
33 01 30 51-0243	EA	4"	Coupling, 4" Middle Ring With Buna S Gasket, Protected	307.74	
33 01 30 51-0244	EA	4"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	293.95	
33 01 30 51-0245	EA	4"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	301.21	
33 01 30 51-0246	EA	5"	Coupling, 4" Middle Ring With Buna S Gasket, Protected	399.59	
33 01 30 51-0247	EA	5"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	403.42	
33 01 30 51-0248	EA	5"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	580.91	
33 01 30 51-0249	EA	6"	Coupling, 4" Middle Ring With Buna S Gasket, Protected	403.94	
33 01 30 51-0250	EA	6"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	424.30	
33 01 30 51-0251	EA	6"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	432.16	
33 01 30 51-0252	EA	8"	Coupling, 4" Middle Ring With Buna S Gasket, Protected	506.73	
33 01 30 51-0253	EA	8"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	514.45	
33 01 30 51-0254	EA	8"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	526.91	
33 01 30 51-0255	EA	10"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	589.35	
33 01 30 51-0256	EA	10"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	689.11	
33 01 30 51-0257	EA	12"	Coupling, 5" Middle Ring With Buna S Gasket, Protected	668.25	
33 01 30 51-0258	EA	12"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	877.63	
33 01 30 51-0259	EA	14"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,014.06	
33 01 30 51-0260	EA	16"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,221.78	
33 01 30 51-0261	EA	18"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,351.80	
33 01 30 51-0262	EA	20"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,456.39	
33 01 30 51-0263	EA	22"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,823.08	
33 01 30 51-0264	EA	24"	Coupling, 7" Middle Ring With Buna S Gasket, Protected	1,915.94	

33 01 30 51-0265 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266	EA	1/2"	Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	89.54	
33 01 30 51-0267	EA	3/4"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	104.28	
33 01 30 51-0268	EA	1"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	119.88	
33 01 30 51-0269	EA	1-1/2"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	143.24	
33 01 30 51-0270	EA	2"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	181.60	
33 01 30 51-0271	EA	2"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	216.54	
33 01 30 51-0272	EA	2"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	228.16	
33 01 30 51-0273	EA	3"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	263.99	
33 01 30 51-0274	EA	3"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	271.81	
33 01 30 51-0275	EA	3"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	279.63	
33 01 30 51-0276	EA	4"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	307.74	
33 01 30 51-0277	EA	4"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	335.63	
33 01 30 51-0278	EA	4"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	346.24	
33 01 30 51-0279	EA	5"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	399.59	
33 01 30 51-0280	EA	5"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	403.42	
33 01 30 51-0281	EA	5"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	448.22	
33 01 30 51-0282	EA	6"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	403.94	
33 01 30 51-0283	EA	6"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	424.30	
33 01 30 51-0284	EA	6"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	432.16	
33 01 30 51-0285	EA	8"	Coupling, 4" Middle Ring With Buna N Gasket, Protected	506.73	
33 01 30 51-0286	EA	8"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	514.45	
33 01 30 51-0287	EA	8"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	526.91	
33 01 30 51-0288	EA	10"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	589.35	
33 01 30 51-0289	EA	10"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	689.11	
33 01 30 51-0290	EA	12"	Coupling, 5" Middle Ring With Buna N Gasket, Protected	668.25	
33 01 30 51-0291	EA	12"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	877.63	
33 01 30 51-0292	EA	14"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,014.06	
33 01 30 51-0293	EA	16"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,192.43	
33 01 30 51-0294	EA	18"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,351.80	
33 01 30 51-0295	EA	20"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,456.39	
33 01 30 51-0296	EA	22"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,823.08	
33 01 30 51-0297	EA	24"	Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,915.94	

33 01 30 51-0298 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA	3/4"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	153.36	
33 01 30 51-0300	EA	1"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	164.75	
33 01 30 51-0301	EA	1-1/2"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	170.60	
33 01 30 51-0302	EA	2"	Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	264.34	
33 01 30 51-0303	EA	2"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	285.74	
33 01 30 51-0304	EA	2"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	296.64	
33 01 30 51-0305	EA	3"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	339.39	
33 01 30 51-0306	EA	3"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	336.93	
33 01 30 51-0307	EA	4"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	374.76	
33 01 30 51-0308	EA	4"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	385.36	
33 01 30 51-0309	EA	5"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	524.89	
33 01 30 51-0310	EA	5"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	538.96	
33 01 30 51-0311	EA	6"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	557.04	
33 01 30 51-0312	EA	6"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	566.37	
33 01 30 51-0313	EA	8"	Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	573.84	
33 01 30 51-0314	EA	8"	Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	713.84	
33 01 30 51-0315	EA	8"	Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	770.94	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	784.16
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	783.96
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	1,001.46
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,044.45
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,210.53
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,524.62
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,484.81
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,657.86
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,797.65
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,955.06

33 01 30 51-0326 Pipe Plugging (33 01 30 51-0001)**33 01 30 51-0327 Gravity Bladder Type, Temporary Pipe Plugging** (33 01 30 51-0326)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0328	EA	3/4" Bladder Type, Temporary Pipe Plug.....	79.58
33 01 30 51-0329	EA	1" Bladder Type, Temporary Pipe Plug.....	85.12
33 01 30 51-0330	EA	1-1/4" Bladder Type, Temporary Pipe Plug.....	91.70
33 01 30 51-0331	EA	1-1/2" Bladder Type, Temporary Pipe Plug.....	97.87
33 01 30 51-0332	EA	2" Bladder Type, Temporary Pipe Plug.....	103.83
33 01 30 51-0333	EA	2-1/2" Bladder Type, Temporary Pipe Plug.....	110.39
33 01 30 51-0334	EA	3" Bladder Type, Temporary Pipe Plug.....	118.54
33 01 30 51-0335	EA	4" Bladder Type, Temporary Pipe Plug.....	130.34
33 01 30 51-0336	EA	5" Bladder Type, Temporary Pipe Plug.....	141.28
33 01 30 51-0337	EA	6" Bladder Type, Temporary Pipe Plug.....	157.69
33 01 30 51-0338	EA	8" Bladder Type, Temporary Pipe Plug.....	175.01
33 01 30 51-0339	EA	10" Bladder Type, Temporary Pipe Plug.....	202.89
33 01 30 51-0340	EA	12" Bladder Type, Temporary Pipe Plug.....	235.94
33 01 30 51-0341	EA	14" Bladder Type, Temporary Pipe Plug.....	281.08
33 01 30 51-0342	EA	16" Bladder Type, Temporary Pipe Plug.....	338.74
33 01 30 51-0343	EA	18" Bladder Type, Temporary Pipe Plug.....	407.99
33 01 30 51-0344	EA	20" Bladder Type, Temporary Pipe Plug.....	485.15
33 01 30 51-0345	EA	24" Bladder Type, Temporary Pipe Plug.....	559.66

33 01 30 51-0346 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0326)

Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.

33 01 30 51-0347	EA	2" Hydra Stop, Line Stopper	2,773.46
33 01 30 51-0348	EA	2-1/2" Hydra Stop, Line Stopper	3,480.22
33 01 30 51-0349	EA	3" Hydra Stop, Line Stopper	4,267.34
33 01 30 51-0350	EA	4" Hydra Stop, Line Stopper	5,145.09
33 01 30 51-0351	EA	5" Hydra Stop, Line Stopper	5,795.12
33 01 30 51-0352	EA	6" Hydra Stop, Line Stopper	6,827.31
33 01 30 51-0353	EA	8" Hydra Stop, Line Stopper	7,477.34
33 01 30 51-0354	EA	10" Hydra Stop, Line Stopper	8,509.50
33 01 30 51-0355	EA	12" Hydra Stop, Line Stopper	9,541.69
33 01 30 51-0356	EA	14" Hydra Stop, Line Stopper	10,640.81
33 01 30 51-0357	EA	16" Hydra Stop, Line Stopper	12,141.84
33 01 30 51-0358	EA	18" Hydra Stop, Line Stopper	13,843.77
33 01 30 51-0359	EA	20" Hydra Stop, Line Stopper	16,483.20

33 01 30 51-0360 Aluminum Expansion Plugs (33 01 30 51-0326)

Note: For use with PVC, clay Or cast iron drainage pipe.

33 01 30 51-0361	EA	3" Pipe Aluminum Expansion Plug.....	78.06
33 01 30 51-0362	EA	4" Pipe Aluminum Expansion Plug.....	112.65
33 01 30 51-0363	EA	5" Pipe Aluminum Expansion Plug.....	127.00
33 01 30 51-0364	EA	6" Pipe Aluminum Expansion Plug.....	193.31
33 01 30 51-0365	EA	8" Pipe Aluminum Expansion Plug.....	198.61
33 01 30 51-0366	EA	10" Pipe Aluminum Expansion Plug.....	248.65
33 01 30 51-0367	EA	12" Pipe Aluminum Expansion Plug.....	336.63
33 01 30 51-0368	EA	14" Pipe Aluminum Expansion Plug.....	544.34
33 01 30 51-0369	EA	15" Pipe Aluminum Expansion Plug.....	589.61

33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)

33 01 30 51-0371	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	172.36
33 01 30 51-0372	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	172.91
33 01 30 51-0373	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	174.27
33 01 30 51-0374	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	175.62
33 01 30 51-0375	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	176.30
33 01 30 51-0376	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	178.34
33 01 30 51-0377	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	180.38
33 01 30 51-0378	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	183.09
33 01 30 51-0379	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	316.64
33 01 30 51-0380	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	325.47
33 01 30 51-0381	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	331.58
33 01 30 51-0382	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	396.10
33 01 30 51-0383	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	404.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0384 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	409.68	
33 01 30 51-0385 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	417.83	
33 01 30 51-0386 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	425.98	
33 01 30 51-0387 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	436.85	
33 01 30 51-0388 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	455.87	
33 01 30 51-0389 Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small>		
33 01 30 51-0390 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	352.73	
33 01 30 51-0391 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	398.26	
33 01 30 63 Sewer and Pipe Joint Sealing <small>(33 01 30)</small>		
33 01 30 63-0001 Joint Air Test <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	105.22	
33 01 30 63-0003 EA 10" To 15", Joint Air Test.....	122.75	
33 01 30 63-0004 EA >15" To 21", Joint Air Test.....	140.29	
33 01 30 63-0005 EA >21" To 24", Joint Air Test.....	175.37	
33 01 30 63-0006 EA >24" To 27", Joint Air Test.....	210.44	
33 01 30 63-0007 EA >27" To 36", Joint Air Test.....	245.51	
33 01 30 63-0008 Joint Seal And Joint Air Retest <small>(33 01 30 63)</small>		
<small>Note: Includes grout.</small>		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest.....	316.69	
<small>Note: Includes up to 1 gallon of grout.</small>		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest.....	351.77	
<small>Note: Includes 1 gallon of grout.</small>		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest.....	422.97	
<small>Note: Includes 2 gallons of grout.</small>		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest.....	476.09	
<small>Note: Includes 2.5 gallons of grout.</small>		
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest.....	529.22	
<small>Note: Includes 3 gallons of grout.</small>		
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest.....	626.45	
<small>Note: Includes 3.75 gallons of grout.</small>		
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest.....	723.68	
<small>Note: Includes 4.5 gallons of grout.</small>		
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest.....	820.91	
<small>Note: Includes 5.25 gallons of grout.</small>		
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest.....	953.22	
<small>Note: Includes 6 gallons of grout.</small>		
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest.....	1,085.52	
<small>Note: Includes 6.75 gallons of grout.</small>		
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest.....	1,252.91	
<small>Note: Includes 7.5 gallons of grout.</small>		
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest.....	1,447.37	
<small>Note: Includes 9 gallons of grout.</small>		
33 01 30 63-0021 GAL Extra Grout Per Joint.....	176.40	
<small>Note: For extra grout per joint required over listed amount.</small>		
33 01 30 70 Rehabilitation of Sewer Utilities <small>(33 01 30)</small>		
33 01 30 70-0001 Cementitious Pipe Coatings By Hand <small>(33 01 30 70)</small>		
<small>Note: To be used on repair areas to install the coating on the exposed portion of the pipe.</small>		
33 01 30 70-0002 SF Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	10.03	
33 01 30 70-0003 SF >1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	15.20	
33 01 30 71 Relining Sewers <small>(33 01 30)</small>		
33 01 30 71-0001 Relining Underground Pipelines <small>(33 01 30 71)</small>		
<small>Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.</small>		
33 01 30 71-0002 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
<small>Note: Two part structural polyurethane.</small>		
33 01 30 71-0003 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0002)</small>		
33 01 30 71-0004 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,885.88	
33 01 30 71-0005 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
<small>Note: Two part structural polyurethane.</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0006 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	59.65	
For Up To 75, Add	12.95	
For >75 To 150, Add	5.97	
For >500 To 1,000, Deduct	-1.60	
For >1,000 To 2,000, Deduct	-3.10	
For >2,000 To 5,000, Deduct	-4.80	
For >5,000, Deduct	-6.98	
33 01 30 71-0007 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	69.60	
For Up To 75, Add	15.11	
For >75 To 150, Add	6.96	
For >500 To 1,000, Deduct	-1.87	
For >1,000 To 2,000, Deduct	-3.61	
For >2,000 To 5,000, Deduct	-5.60	
For >5,000, Deduct	-8.15	
33 01 30 71-0008 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	79.54	
For Up To 75, Add	17.26	
For >75 To 150, Add	7.95	
For >500 To 1,000, Deduct	-2.13	
For >1,000 To 2,000, Deduct	-4.13	
For >2,000 To 5,000, Deduct	-6.40	
For >5,000, Deduct	-9.31	
33 01 30 71-0009 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	89.48	
For Up To 75, Add	19.42	
For >75 To 150, Add	8.95	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,000, Deduct	-4.65	
For >2,000 To 5,000, Deduct	-7.20	
For >5,000, Deduct	-10.47	
33 01 30 71-0010 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	99.42	
For Up To 75, Add	21.58	
For >75 To 150, Add	9.94	
For >500 To 1,000, Deduct	-2.67	
For >1,000 To 2,000, Deduct	-5.16	
For >2,000 To 5,000, Deduct	-8.00	
For >5,000, Deduct	-11.64	
33 01 30 71-0011 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	109.36	
For Up To 75, Add	23.74	
For >75 To 150, Add	10.94	
For >500 To 1,000, Deduct	-2.93	
For >1,000 To 2,000, Deduct	-5.68	
For >2,000 To 5,000, Deduct	-8.80	
For >5,000, Deduct	-12.80	
33 01 30 71-0012 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	119.31	
For Up To 75, Add	25.90	
For >75 To 150, Add	11.93	
For >500 To 1,000, Deduct	-3.20	
For >1,000 To 2,000, Deduct	-6.20	
For >2,000 To 5,000, Deduct	-9.60	
For >5,000, Deduct	-13.97	
33 01 30 71-0013 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	129.24	
For Up To 75, Add	28.05	
For >75 To 150, Add	12.92	
For >500 To 1,000, Deduct	-3.47	
For >1,000 To 2,000, Deduct	-6.71	
For >2,000 To 5,000, Deduct	-10.40	
For >5,000, Deduct	-15.13	
33 01 30 71-0014 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	139.19	
For Up To 75, Add	30.21	
For >75 To 150, Add	13.92	
For >500 To 1,000, Deduct	-3.73	
For >1,000 To 2,000, Deduct	-7.23	
For >2,000 To 5,000, Deduct	-11.20	
For >5,000, Deduct	-16.29	
33 01 30 71-0015 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	149.13	
For Up To 75, Add	32.37	
For >75 To 150, Add	14.91	
For >500 To 1,000, Deduct	-4.00	
For >1,000 To 2,000, Deduct	-7.75	
For >2,000 To 5,000, Deduct	-12.00	
For >5,000, Deduct	-17.46	
33 01 30 71-0016 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	159.06	
For Up To 75, Add	34.52	
For >75 To 150, Add	15.91	
For >500 To 1,000, Deduct	-4.27	
For >1,000 To 2,000, Deduct	-8.26	
For >2,000 To 5,000, Deduct	-12.80	
For >5,000, Deduct	-18.62	
33 01 30 71-0017 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	169.01	
For Up To 75, Add	36.68	
For >75 To 150, Add	16.90	
For >500 To 1,000, Deduct	-4.53	
For >1,000 To 2,000, Deduct	-8.78	
For >2,000 To 5,000, Deduct	-13.60	
For >5,000, Deduct	-19.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0018 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	178.96	
For Up To 75, Add	38.84	
For >75 To 150, Add	17.90	
For >500 To 1,000, Deduct	-4.80	
For >1,000 To 2,000, Deduct	-9.29	
For >2,000 To 5,000, Deduct	-14.40	
For >5,000, Deduct	-20.95	
33 01 30 71-0019 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	188.90	
For Up To 75, Add	41.00	
For >75 To 150, Add	18.89	
For >500 To 1,000, Deduct	-5.07	
For >1,000 To 2,000, Deduct	-9.81	
For >2,000 To 5,000, Deduct	-15.20	
For >5,000, Deduct	-22.11	
33 01 30 71-0020 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	198.84	
For Up To 75, Add	43.16	
For >75 To 150, Add	19.88	
For >500 To 1,000, Deduct	-5.33	
For >1,000 To 2,000, Deduct	-10.33	
For >2,000 To 5,000, Deduct	-16.00	
For >5,000, Deduct	-23.27	
33 01 30 71-0021 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane	6.33	
33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0023 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	80.41	
For Up To 75, Add	17.15	
For >75 To 150, Add	8.04	
For >500 To 1,000, Deduct	-2.04	
For >1,000 To 2,000, Deduct	-3.97	
For >2,000 To 5,000, Deduct	-6.11	
For >5,000, Deduct	-9.11	
33 01 30 71-0024 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	93.81	
For Up To 75, Add	20.01	
For >75 To 150, Add	9.38	
For >500 To 1,000, Deduct	-2.38	
For >1,000 To 2,000, Deduct	-4.63	
For >2,000 To 5,000, Deduct	-7.13	
For >5,000, Deduct	-10.63	
33 01 30 71-0025 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	107.23	
For Up To 75, Add	22.87	
For >75 To 150, Add	10.72	
For >500 To 1,000, Deduct	-2.72	
For >1,000 To 2,000, Deduct	-5.29	
For >2,000 To 5,000, Deduct	-8.15	
For >5,000, Deduct	-12.15	
33 01 30 71-0026 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	120.61	
For Up To 75, Add	25.73	
For >75 To 150, Add	12.06	
For >500 To 1,000, Deduct	-3.05	
For >1,000 To 2,000, Deduct	-5.95	
For >2,000 To 5,000, Deduct	-9.16	
For >5,000, Deduct	-13.67	
33 01 30 71-0027 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	134.02	
For Up To 75, Add	28.59	
For >75 To 150, Add	13.40	
For >500 To 1,000, Deduct	-3.39	
For >1,000 To 2,000, Deduct	-6.61	
For >2,000 To 5,000, Deduct	-10.18	
For >5,000, Deduct	-15.19	
33 01 30 71-0028 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	147.42	
For Up To 75, Add	31.45	
For >75 To 150, Add	14.74	
For >500 To 1,000, Deduct	-3.73	
For >1,000 To 2,000, Deduct	-7.27	
For >2,000 To 5,000, Deduct	-11.20	
For >5,000, Deduct	-16.70	
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	160.83	
For Up To 75, Add	34.31	
For >75 To 150, Add	16.08	
For >500 To 1,000, Deduct	-4.07	
For >1,000 To 2,000, Deduct	-7.93	
For >2,000 To 5,000, Deduct	-12.22	
For >5,000, Deduct	-18.22	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	174.23	
For Up To 75, Add	37.17	
For >75 To 150, Add	17.42	
For >500 To 1,000, Deduct	-4.41	
For >1,000 To 2,000, Deduct	-8.59	
For >2,000 To 5,000, Deduct	-13.24	
For >5,000, Deduct	-19.74	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	187.64	
For Up To 75, Add	40.03	
For >75 To 150, Add	18.76	
For >500 To 1,000, Deduct	-4.75	
For >1,000 To 2,000, Deduct	-9.25	
For >2,000 To 5,000, Deduct	-14.26	
For >5,000, Deduct	-21.26	
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	201.03	
For Up To 75, Add	42.88	
For >75 To 150, Add	20.10	
For >500 To 1,000, Deduct	-5.09	
For >1,000 To 2,000, Deduct	-9.91	
For >2,000 To 5,000, Deduct	-15.27	
For >5,000, Deduct	-22.78	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	214.43	
For Up To 75, Add	45.74	
For >75 To 150, Add	21.44	
For >500 To 1,000, Deduct	-5.43	
For >1,000 To 2,000, Deduct	-10.58	
For >2,000 To 5,000, Deduct	-16.29	
For >5,000, Deduct	-24.30	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	227.84	
For Up To 75, Add	48.60	
For >75 To 150, Add	22.78	
For >500 To 1,000, Deduct	-5.77	
For >1,000 To 2,000, Deduct	-11.24	
For >2,000 To 5,000, Deduct	-17.31	
For >5,000, Deduct	-25.82	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	241.24	
For Up To 75, Add	51.46	
For >75 To 150, Add	24.12	
For >500 To 1,000, Deduct	-6.11	
For >1,000 To 2,000, Deduct	-11.90	
For >2,000 To 5,000, Deduct	-18.33	
For >5,000, Deduct	-27.34	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	254.64	
For Up To 75, Add	54.32	
For >75 To 150, Add	25.46	
For >500 To 1,000, Deduct	-6.45	
For >1,000 To 2,000, Deduct	-12.56	
For >2,000 To 5,000, Deduct	-19.35	
For >5,000, Deduct	-28.85	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	268.05	
For Up To 75, Add	57.18	
For >75 To 150, Add	26.81	
For >500 To 1,000, Deduct	-6.79	
For >1,000 To 2,000, Deduct	-13.22	
For >2,000 To 5,000, Deduct	-20.37	
For >5,000, Deduct	-30.37	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	8.53	
33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	101.15	
For Up To 75, Add	21.36	
For >75 To 150, Add	10.12	
For >500 To 1,000, Deduct	-2.47	
For >1,000 To 2,000, Deduct	-4.83	
For >2,000 To 5,000, Deduct	-7.42	
For >5,000, Deduct	-11.24	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	118.02	
For Up To 75, Add	24.92	
For >75 To 150, Add	11.80	
For >500 To 1,000, Deduct	-2.89	
For >1,000 To 2,000, Deduct	-5.64	
For >2,000 To 5,000, Deduct	-8.66	
For >5,000, Deduct	-13.12	
33 01 30 71-0042 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	134.87	
For Up To 75, Add	28.48	
For >75 To 150, Add	13.49	
For >500 To 1,000, Deduct	-3.30	
For >1,000 To 2,000, Deduct	-6.45	
For >2,000 To 5,000, Deduct	-9.90	
For >5,000, Deduct	-14.99	
33 01 30 71-0043 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	151.74	
For Up To 75, Add	32.04	
For >75 To 150, Add	15.17	
For >500 To 1,000, Deduct	-3.71	
For >1,000 To 2,000, Deduct	-7.25	
For >2,000 To 5,000, Deduct	-11.13	
For >5,000, Deduct	-16.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0044 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	168.60	
<i>For Up To 75, Add</i>	35.60	
<i>For >75 To 150, Add</i>	16.86	
<i>For >500 To 1,000, Deduct</i>	-4.12	
<i>For >1,000 To 2,000, Deduct</i>	-8.06	
<i>For >2,000 To 5,000, Deduct</i>	-12.37	
<i>For >5,000, Deduct</i>	-18.74	
33 01 30 71-0045 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	185.45	
<i>For Up To 75, Add</i>	39.16	
<i>For >75 To 150, Add</i>	18.55	
<i>For >500 To 1,000, Deduct</i>	-4.54	
<i>For >1,000 To 2,000, Deduct</i>	-8.86	
<i>For >2,000 To 5,000, Deduct</i>	-13.61	
<i>For >5,000, Deduct</i>	-20.61	
33 01 30 71-0046 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	202.32	
<i>For Up To 75, Add</i>	42.72	
<i>For >75 To 150, Add</i>	20.23	
<i>For >500 To 1,000, Deduct</i>	-4.95	
<i>For >1,000 To 2,000, Deduct</i>	-9.67	
<i>For >2,000 To 5,000, Deduct</i>	-14.84	
<i>For >5,000, Deduct</i>	-22.49	
33 01 30 71-0047 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	219.17	
<i>For Up To 75, Add</i>	46.28	
<i>For >75 To 150, Add</i>	21.92	
<i>For >500 To 1,000, Deduct</i>	-5.36	
<i>For >1,000 To 2,000, Deduct</i>	-10.48	
<i>For >2,000 To 5,000, Deduct</i>	-16.08	
<i>For >5,000, Deduct</i>	-24.36	
33 01 30 71-0048 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	236.04	
<i>For Up To 75, Add</i>	49.84	
<i>For >75 To 150, Add</i>	23.60	
<i>For >500 To 1,000, Deduct</i>	-5.77	
<i>For >1,000 To 2,000, Deduct</i>	-11.28	
<i>For >2,000 To 5,000, Deduct</i>	-17.32	
<i>For >5,000, Deduct</i>	-26.23	
33 01 30 71-0049 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	252.89	
<i>For Up To 75, Add</i>	53.40	
<i>For >75 To 150, Add</i>	25.29	
<i>For >500 To 1,000, Deduct</i>	-6.18	
<i>For >1,000 To 2,000, Deduct</i>	-12.09	
<i>For >2,000 To 5,000, Deduct</i>	-18.55	
<i>For >5,000, Deduct</i>	-28.11	
33 01 30 71-0050 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	269.76	
<i>For Up To 75, Add</i>	56.96	
<i>For >75 To 150, Add</i>	26.98	
<i>For >500 To 1,000, Deduct</i>	-6.60	
<i>For >1,000 To 2,000, Deduct</i>	-12.89	
<i>For >2,000 To 5,000, Deduct</i>	-19.79	
<i>For >5,000, Deduct</i>	-29.98	
33 01 30 71-0051 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	286.61	
<i>For Up To 75, Add</i>	60.52	
<i>For >75 To 150, Add</i>	28.66	
<i>For >500 To 1,000, Deduct</i>	-7.01	
<i>For >1,000 To 2,000, Deduct</i>	-13.70	
<i>For >2,000 To 5,000, Deduct</i>	-21.03	
<i>For >5,000, Deduct</i>	-31.85	
33 01 30 71-0052 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	303.47	
<i>For Up To 75, Add</i>	64.08	
<i>For >75 To 150, Add</i>	30.35	
<i>For >500 To 1,000, Deduct</i>	-7.42	
<i>For >1,000 To 2,000, Deduct</i>	-14.51	
<i>For >2,000 To 5,000, Deduct</i>	-22.27	
<i>For >5,000, Deduct</i>	-33.73	
33 01 30 71-0053 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	320.34	
<i>For Up To 75, Add</i>	67.64	
<i>For >75 To 150, Add</i>	32.03	
<i>For >500 To 1,000, Deduct</i>	-7.83	
<i>For >1,000 To 2,000, Deduct</i>	-15.31	
<i>For >2,000 To 5,000, Deduct</i>	-23.50	
<i>For >5,000, Deduct</i>	-35.60	
33 01 30 71-0054 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	337.19	
<i>For Up To 75, Add</i>	71.19	
<i>For >75 To 150, Add</i>	33.72	
<i>For >500 To 1,000, Deduct</i>	-8.25	
<i>For >1,000 To 2,000, Deduct</i>	-16.12	
<i>For >2,000 To 5,000, Deduct</i>	-24.74	
<i>For >5,000, Deduct</i>	-37.48	
33 01 30 71-0055 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane	10.73	

33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0002)
 Note: Two part structural polyurethane.

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0057 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	122.00	
For Up To 75, Add	25.59	
For >75 To 150, Add	12.20	
For >500 To 1,000, Deduct	-2.91	
For >1,000 To 2,000, Deduct	-5.71	
For >2,000 To 5,000, Deduct	-8.74	
For >5,000, Deduct	-13.39	
33 01 30 71-0058 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	142.33	
For Up To 75, Add	29.85	
For >75 To 150, Add	14.23	
For >500 To 1,000, Deduct	-3.40	
For >1,000 To 2,000, Deduct	-6.66	
For >2,000 To 5,000, Deduct	-10.20	
For >5,000, Deduct	-15.62	
33 01 30 71-0059 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	162.67	
For Up To 75, Add	34.12	
For >75 To 150, Add	16.27	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-7.61	
For >2,000 To 5,000, Deduct	-11.66	
For >5,000, Deduct	-17.85	
33 01 30 71-0060 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	182.99	
For Up To 75, Add	38.38	
For >75 To 150, Add	18.30	
For >500 To 1,000, Deduct	-4.37	
For >1,000 To 2,000, Deduct	-8.56	
For >2,000 To 5,000, Deduct	-13.11	
For >5,000, Deduct	-20.08	
33 01 30 71-0061 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	203.34	
For Up To 75, Add	42.65	
For >75 To 150, Add	20.33	
For >500 To 1,000, Deduct	-4.86	
For >1,000 To 2,000, Deduct	-9.52	
For >2,000 To 5,000, Deduct	-14.57	
For >5,000, Deduct	-22.31	
33 01 30 71-0062 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	223.65	
For Up To 75, Add	46.90	
For >75 To 150, Add	22.37	
For >500 To 1,000, Deduct	-5.34	
For >1,000 To 2,000, Deduct	-10.47	
For >2,000 To 5,000, Deduct	-16.03	
For >5,000, Deduct	-24.54	
33 01 30 71-0063 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	244.00	
For Up To 75, Add	51.17	
For >75 To 150, Add	24.40	
For >500 To 1,000, Deduct	-5.83	
For >1,000 To 2,000, Deduct	-11.42	
For >2,000 To 5,000, Deduct	-17.49	
For >5,000, Deduct	-26.77	
33 01 30 71-0064 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	264.33	
For Up To 75, Add	55.44	
For >75 To 150, Add	26.43	
For >500 To 1,000, Deduct	-6.31	
For >1,000 To 2,000, Deduct	-12.37	
For >2,000 To 5,000, Deduct	-18.94	
For >5,000, Deduct	-29.00	
33 01 30 71-0065 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	284.66	
For Up To 75, Add	59.70	
For >75 To 150, Add	28.47	
For >500 To 1,000, Deduct	-6.80	
For >1,000 To 2,000, Deduct	-13.32	
For >2,000 To 5,000, Deduct	-20.40	
For >5,000, Deduct	-31.23	
33 01 30 71-0066 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	305.00	
For Up To 75, Add	63.97	
For >75 To 150, Add	30.50	
For >500 To 1,000, Deduct	-7.29	
For >1,000 To 2,000, Deduct	-14.28	
For >2,000 To 5,000, Deduct	-21.86	
For >5,000, Deduct	-33.47	
33 01 30 71-0067 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	325.33	
For Up To 75, Add	68.23	
For >75 To 150, Add	32.53	
For >500 To 1,000, Deduct	-7.77	
For >1,000 To 2,000, Deduct	-15.23	
For >2,000 To 5,000, Deduct	-23.32	
For >5,000, Deduct	-35.70	
33 01 30 71-0068 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	345.66	
For Up To 75, Add	72.49	
For >75 To 150, Add	34.57	
For >500 To 1,000, Deduct	-8.26	
For >1,000 To 2,000, Deduct	-16.18	
For >2,000 To 5,000, Deduct	-24.77	
For >5,000, Deduct	-37.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0069 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	366.01	
<i>For Up To 75, Add</i>	76.76	
<i>For >75 To 150, Add</i>	36.60	
<i>For >500 To 1,000, Deduct</i>	-8.74	
<i>For >1,000 To 2,000, Deduct</i>	-17.13	
<i>For >2,000 To 5,000, Deduct</i>	-26.23	
<i>For >5,000, Deduct</i>	-40.16	
33 01 30 71-0070 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	386.32	
<i>For Up To 75, Add</i>	81.02	
<i>For >75 To 150, Add</i>	38.63	
<i>For >500 To 1,000, Deduct</i>	-9.23	
<i>For >1,000 To 2,000, Deduct</i>	-18.08	
<i>For >2,000 To 5,000, Deduct</i>	-27.69	
<i>For >5,000, Deduct</i>	-42.39	
33 01 30 71-0071 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	406.67	
<i>For Up To 75, Add</i>	85.29	
<i>For >75 To 150, Add</i>	40.67	
<i>For >500 To 1,000, Deduct</i>	-9.72	
<i>For >1,000 To 2,000, Deduct</i>	-19.04	
<i>For >2,000 To 5,000, Deduct</i>	-29.15	
<i>For >5,000, Deduct</i>	-44.62	
33 01 30 71-0072 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane	12.95	
33 01 30 71-0073 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0074 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	142.98	
<i>For Up To 75, Add</i>	29.85	
<i>For >75 To 150, Add</i>	14.30	
<i>For >500 To 1,000, Deduct</i>	-3.36	
<i>For >1,000 To 2,000, Deduct</i>	-6.59	
<i>For >2,000 To 5,000, Deduct</i>	-10.08	
<i>For >5,000, Deduct</i>	-15.55	
33 01 30 71-0075 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	166.81	
<i>For Up To 75, Add</i>	34.82	
<i>For >75 To 150, Add</i>	16.68	
<i>For >500 To 1,000, Deduct</i>	-3.92	
<i>For >1,000 To 2,000, Deduct</i>	-7.69	
<i>For >2,000 To 5,000, Deduct</i>	-11.76	
<i>For >5,000, Deduct</i>	-18.14	
33 01 30 71-0076 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	190.63	
<i>For Up To 75, Add</i>	39.79	
<i>For >75 To 150, Add</i>	19.06	
<i>For >500 To 1,000, Deduct</i>	-4.48	
<i>For >1,000 To 2,000, Deduct</i>	-8.79	
<i>For >2,000 To 5,000, Deduct</i>	-13.44	
<i>For >5,000, Deduct</i>	-20.73	
33 01 30 71-0077 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	214.46	
<i>For Up To 75, Add</i>	44.77	
<i>For >75 To 150, Add</i>	21.45	
<i>For >500 To 1,000, Deduct</i>	-5.04	
<i>For >1,000 To 2,000, Deduct</i>	-9.89	
<i>For >2,000 To 5,000, Deduct</i>	-15.12	
<i>For >5,000, Deduct</i>	-23.32	
33 01 30 71-0078 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	238.30	
<i>For Up To 75, Add</i>	49.74	
<i>For >75 To 150, Add</i>	23.83	
<i>For >500 To 1,000, Deduct</i>	-5.60	
<i>For >1,000 To 2,000, Deduct</i>	-10.99	
<i>For >2,000 To 5,000, Deduct</i>	-16.80	
<i>For >5,000, Deduct</i>	-25.91	
33 01 30 71-0079 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	262.12	
<i>For Up To 75, Add</i>	54.71	
<i>For >75 To 150, Add</i>	26.21	
<i>For >500 To 1,000, Deduct</i>	-6.16	
<i>For >1,000 To 2,000, Deduct</i>	-12.09	
<i>For >2,000 To 5,000, Deduct</i>	-18.47	
<i>For >5,000, Deduct</i>	-28.50	
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	285.95	
<i>For Up To 75, Add</i>	59.69	
<i>For >75 To 150, Add</i>	28.60	
<i>For >500 To 1,000, Deduct</i>	-6.72	
<i>For >1,000 To 2,000, Deduct</i>	-13.19	
<i>For >2,000 To 5,000, Deduct</i>	-20.15	
<i>For >5,000, Deduct</i>	-31.09	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	309.79	
<i>For Up To 75, Add</i>	64.66	
<i>For >75 To 150, Add</i>	30.98	
<i>For >500 To 1,000, Deduct</i>	-7.28	
<i>For >1,000 To 2,000, Deduct</i>	-14.29	
<i>For >2,000 To 5,000, Deduct</i>	-21.83	
<i>For >5,000, Deduct</i>	-33.69	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	333.60	
For Up To 75, Add	69.63	
For >75 To 150, Add	33.36	
For >500 To 1,000, Deduct	-7.84	
For >1,000 To 2,000, Deduct	-15.38	
For >2,000 To 5,000, Deduct	-23.51	
For >5,000, Deduct	-36.27	
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	357.44	
For Up To 75, Add	74.61	
For >75 To 150, Add	35.74	
For >500 To 1,000, Deduct	-8.40	
For >1,000 To 2,000, Deduct	-16.48	
For >2,000 To 5,000, Deduct	-25.19	
For >5,000, Deduct	-38.87	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	381.27	
For Up To 75, Add	79.58	
For >75 To 150, Add	38.13	
For >500 To 1,000, Deduct	-8.96	
For >1,000 To 2,000, Deduct	-17.58	
For >2,000 To 5,000, Deduct	-26.87	
For >5,000, Deduct	-41.46	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	405.09	
For Up To 75, Add	84.56	
For >75 To 150, Add	40.51	
For >500 To 1,000, Deduct	-9.52	
For >1,000 To 2,000, Deduct	-18.68	
For >2,000 To 5,000, Deduct	-28.55	
For >5,000, Deduct	-44.05	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	428.93	
For Up To 75, Add	89.53	
For >75 To 150, Add	42.89	
For >500 To 1,000, Deduct	-10.08	
For >1,000 To 2,000, Deduct	-19.78	
For >2,000 To 5,000, Deduct	-30.23	
For >5,000, Deduct	-46.64	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	452.77	
For Up To 75, Add	94.51	
For >75 To 150, Add	45.28	
For >500 To 1,000, Deduct	-10.64	
For >1,000 To 2,000, Deduct	-20.88	
For >2,000 To 5,000, Deduct	-31.91	
For >5,000, Deduct	-49.23	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	476.58	
For Up To 75, Add	99.48	
For >75 To 150, Add	47.66	
For >500 To 1,000, Deduct	-11.20	
For >1,000 To 2,000, Deduct	-21.98	
For >2,000 To 5,000, Deduct	-33.59	
For >5,000, Deduct	-51.82	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	15.17	
33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	184.98	
For Up To 75, Add	38.38	
For >75 To 150, Add	18.50	
For >500 To 1,000, Deduct	-4.25	
For >1,000 To 2,000, Deduct	-8.37	
For >2,000 To 5,000, Deduct	-12.76	
For >5,000, Deduct	-19.89	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	215.82	
For Up To 75, Add	44.78	
For >75 To 150, Add	21.58	
For >500 To 1,000, Deduct	-4.96	
For >1,000 To 2,000, Deduct	-9.77	
For >2,000 To 5,000, Deduct	-14.89	
For >5,000, Deduct	-23.20	
33 01 30 71-0093 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	246.65	
For Up To 75, Add	51.18	
For >75 To 150, Add	24.67	
For >500 To 1,000, Deduct	-5.67	
For >1,000 To 2,000, Deduct	-11.16	
For >2,000 To 5,000, Deduct	-17.02	
For >5,000, Deduct	-26.52	
33 01 30 71-0094 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	277.48	
For Up To 75, Add	57.58	
For >75 To 150, Add	27.75	
For >500 To 1,000, Deduct	-6.38	
For >1,000 To 2,000, Deduct	-12.56	
For >2,000 To 5,000, Deduct	-19.15	
For >5,000, Deduct	-29.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0095 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	308.31	
<i>For Up To 75, Add</i>	63.97	
<i>For >75 To 150, Add</i>	30.83	
<i>For >500 To 1,000, Deduct</i>	-7.09	
<i>For >1,000 To 2,000, Deduct</i>	-13.95	
<i>For >2,000 To 5,000, Deduct</i>	-21.27	
<i>For >5,000, Deduct</i>	-33.14	
33 01 30 71-0096 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	339.14	
<i>For Up To 75, Add</i>	70.37	
<i>For >75 To 150, Add</i>	33.91	
<i>For >500 To 1,000, Deduct</i>	-7.80	
<i>For >1,000 To 2,000, Deduct</i>	-15.35	
<i>For >2,000 To 5,000, Deduct</i>	-23.40	
<i>For >5,000, Deduct</i>	-36.46	
33 01 30 71-0097 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	369.97	
<i>For Up To 75, Add</i>	76.77	
<i>For >75 To 150, Add</i>	37.00	
<i>For >500 To 1,000, Deduct</i>	-8.51	
<i>For >1,000 To 2,000, Deduct</i>	-16.74	
<i>For >2,000 To 5,000, Deduct</i>	-25.53	
<i>For >5,000, Deduct</i>	-39.77	
33 01 30 71-0098 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	400.81	
<i>For Up To 75, Add</i>	83.17	
<i>For >75 To 150, Add</i>	40.08	
<i>For >500 To 1,000, Deduct</i>	-9.22	
<i>For >1,000 To 2,000, Deduct</i>	-18.14	
<i>For >2,000 To 5,000, Deduct</i>	-27.66	
<i>For >5,000, Deduct</i>	-43.09	
33 01 30 71-0099 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	431.63	
<i>For Up To 75, Add</i>	89.56	
<i>For >75 To 150, Add</i>	43.16	
<i>For >500 To 1,000, Deduct</i>	-9.93	
<i>For >1,000 To 2,000, Deduct</i>	-19.53	
<i>For >2,000 To 5,000, Deduct</i>	-29.78	
<i>For >5,000, Deduct</i>	-46.40	
33 01 30 71-0100 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	462.47	
<i>For Up To 75, Add</i>	95.96	
<i>For >75 To 150, Add</i>	46.25	
<i>For >500 To 1,000, Deduct</i>	-10.64	
<i>For >1,000 To 2,000, Deduct</i>	-20.93	
<i>For >2,000 To 5,000, Deduct</i>	-31.91	
<i>For >5,000, Deduct</i>	-49.72	
33 01 30 71-0101 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	493.29	
<i>For Up To 75, Add</i>	102.36	
<i>For >75 To 150, Add</i>	49.33	
<i>For >500 To 1,000, Deduct</i>	-11.35	
<i>For >1,000 To 2,000, Deduct</i>	-22.32	
<i>For >2,000 To 5,000, Deduct</i>	-34.04	
<i>For >5,000, Deduct</i>	-53.03	
33 01 30 71-0102 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	524.13	
<i>For Up To 75, Add</i>	108.76	
<i>For >75 To 150, Add</i>	52.41	
<i>For >500 To 1,000, Deduct</i>	-12.06	
<i>For >1,000 To 2,000, Deduct</i>	-23.72	
<i>For >2,000 To 5,000, Deduct</i>	-36.17	
<i>For >5,000, Deduct</i>	-56.34	
33 01 30 71-0103 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	554.95	
<i>For Up To 75, Add</i>	115.15	
<i>For >75 To 150, Add</i>	55.50	
<i>For >500 To 1,000, Deduct</i>	-12.76	
<i>For >1,000 To 2,000, Deduct</i>	-25.11	
<i>For >2,000 To 5,000, Deduct</i>	-38.29	
<i>For >5,000, Deduct</i>	-59.66	
33 01 30 71-0104 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	585.80	
<i>For Up To 75, Add</i>	121.55	
<i>For >75 To 150, Add</i>	58.58	
<i>For >500 To 1,000, Deduct</i>	-13.47	
<i>For >1,000 To 2,000, Deduct</i>	-26.51	
<i>For >2,000 To 5,000, Deduct</i>	-40.42	
<i>For >5,000, Deduct</i>	-62.97	
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	616.63	
<i>For Up To 75, Add</i>	127.95	
<i>For >75 To 150, Add</i>	61.66	
<i>For >500 To 1,000, Deduct</i>	-14.18	
<i>For >1,000 To 2,000, Deduct</i>	-27.90	
<i>For >2,000 To 5,000, Deduct</i>	-42.55	
<i>For >5,000, Deduct</i>	-66.29	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	19.62	

33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0002)
 Note: Two part structural polyurethane.

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	227.38	
For Up To 75, Add	47.02	
For >75 To 150, Add	22.74	
For >500 To 1,000, Deduct	-5.16	
For >1,000 To 2,000, Deduct	-10.17	
For >2,000 To 5,000, Deduct	-15.49	
For >5,000, Deduct	-24.28	
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	265.27	
For Up To 75, Add	54.85	
For >75 To 150, Add	26.53	
For >500 To 1,000, Deduct	-6.02	
For >1,000 To 2,000, Deduct	-11.87	
For >2,000 To 5,000, Deduct	-18.07	
For >5,000, Deduct	-28.33	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	303.17	
For Up To 75, Add	62.69	
For >75 To 150, Add	30.32	
For >500 To 1,000, Deduct	-6.89	
For >1,000 To 2,000, Deduct	-13.57	
For >2,000 To 5,000, Deduct	-20.66	
For >5,000, Deduct	-32.37	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	341.07	
For Up To 75, Add	70.53	
For >75 To 150, Add	34.11	
For >500 To 1,000, Deduct	-7.75	
For >1,000 To 2,000, Deduct	-15.26	
For >2,000 To 5,000, Deduct	-23.24	
For >5,000, Deduct	-36.42	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	378.96	
For Up To 75, Add	78.36	
For >75 To 150, Add	37.90	
For >500 To 1,000, Deduct	-8.61	
For >1,000 To 2,000, Deduct	-16.96	
For >2,000 To 5,000, Deduct	-25.82	
For >5,000, Deduct	-40.47	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	416.86	
For Up To 75, Add	86.20	
For >75 To 150, Add	41.69	
For >500 To 1,000, Deduct	-9.47	
For >1,000 To 2,000, Deduct	-18.65	
For >2,000 To 5,000, Deduct	-28.40	
For >5,000, Deduct	-44.51	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	454.76	
For Up To 75, Add	94.04	
For >75 To 150, Add	45.48	
For >500 To 1,000, Deduct	-10.33	
For >1,000 To 2,000, Deduct	-20.35	
For >2,000 To 5,000, Deduct	-30.99	
For >5,000, Deduct	-48.56	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	492.65	
For Up To 75, Add	101.87	
For >75 To 150, Add	49.27	
For >500 To 1,000, Deduct	-11.19	
For >1,000 To 2,000, Deduct	-22.04	
For >2,000 To 5,000, Deduct	-33.57	
For >5,000, Deduct	-52.61	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	530.55	
For Up To 75, Add	109.71	
For >75 To 150, Add	53.06	
For >500 To 1,000, Deduct	-12.05	
For >1,000 To 2,000, Deduct	-23.74	
For >2,000 To 5,000, Deduct	-36.15	
For >5,000, Deduct	-56.65	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	568.44	
For Up To 75, Add	117.54	
For >75 To 150, Add	56.84	
For >500 To 1,000, Deduct	-12.91	
For >1,000 To 2,000, Deduct	-25.44	
For >2,000 To 5,000, Deduct	-38.73	
For >5,000, Deduct	-60.70	
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	606.34	
For Up To 75, Add	125.38	
For >75 To 150, Add	60.63	
For >500 To 1,000, Deduct	-13.77	
For >1,000 To 2,000, Deduct	-27.13	
For >2,000 To 5,000, Deduct	-41.31	
For >5,000, Deduct	-64.75	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	644.24	
For Up To 75, Add	133.22	
For >75 To 150, Add	64.42	
For >500 To 1,000, Deduct	-14.63	
For >1,000 To 2,000, Deduct	-28.83	
For >2,000 To 5,000, Deduct	-43.90	
For >5,000, Deduct	-68.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	682.14	
<i>For Up To 75, Add</i>	141.05	
<i>For >75 To 150, Add</i>	68.21	
<i>For >500 To 1,000, Deduct</i>	-15.49	
<i>For >1,000 To 2,000, Deduct</i>	-30.52	
<i>For >2,000 To 5,000, Deduct</i>	-46.48	
<i>For >5,000, Deduct</i>	-72.84	
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	720.03	
<i>For Up To 75, Add</i>	148.89	
<i>For >75 To 150, Add</i>	72.00	
<i>For >500 To 1,000, Deduct</i>	-16.35	
<i>For >1,000 To 2,000, Deduct</i>	-32.22	
<i>For >2,000 To 5,000, Deduct</i>	-49.06	
<i>For >5,000, Deduct</i>	-76.89	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	757.93	
<i>For Up To 75, Add</i>	156.73	
<i>For >75 To 150, Add</i>	75.79	
<i>For >500 To 1,000, Deduct</i>	-17.21	
<i>For >1,000 To 2,000, Deduct</i>	-33.91	
<i>For >2,000 To 5,000, Deduct</i>	-51.64	
<i>For >5,000, Deduct</i>	-80.93	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	24.12	
 33 01 30 72 Cured-in-Place Pipe Lining <small>(33 01 30)</small>		
33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines <small>(33 01 30 72)</small>		
<small>Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.</small>		
33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion <small>(33 01 30 72-0001)</small>		
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,632.42	
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,720.70	
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,081.05	
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,441.40	
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	816.21	
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,360.35	
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,700.44	
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,176.55	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	1,360.35	
<small>Note: Need to mix wet material in bag prior to installation.</small>		
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,264.84	
<small>Note: Need to mix wet material in bag prior to installation.</small>		
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,441.40	
<small>Note: Need to mix wet material in bag prior to installation.</small>		
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP).....	8,162.10	
<small>Note: Need to mix wet material in bag prior to installation.</small>		
33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) <small>(33 01 30 72-0001)</small>		
<small>Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.</small>		
33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	23.80	
<i>For Vinlyester Resin, Add</i>	6.66	
<i>For Epoxy Resin, Add</i>	0.78	
<i>For Up To >10, Add</i>	47.63	
<i>For >10 To 25, Add</i>	38.10	
<i>For >25 To 50, Add</i>	23.34	
<i>For >50 To 100, Add</i>	11.67	
<i>For >500 To 1,000, Deduct</i>	-1.55	
<i>For >1,000 To 2,000, Deduct</i>	-2.50	
<i>For >2,000 To 5,000, Deduct</i>	-4.71	
<i>For >5,000, Deduct</i>	-7.62	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	29.01	
<i>For Vinlyester Resin, Add</i>	10.30	
<i>For Epoxy Resin, Add</i>	1.21	
<i>For Up To >10, Add</i>	50.23	
<i>For >10 To 25, Add</i>	39.41	
<i>For >25 To 50, Add</i>	24.38	
<i>For >50 To 100, Add</i>	12.19	
<i>For >500 To 1,000, Deduct</i>	-1.81	
<i>For >1,000 To 2,000, Deduct</i>	-2.89	
<i>For >2,000 To 5,000, Deduct</i>	-5.34	
<i>For >5,000, Deduct</i>	-8.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0019	LF		4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	34.23	
			For Vinlyester Resin, Add	13.96	
			For Epoxy Resin, Add	1.65	
			For Up To >10, Add	52.84	
			For >10 To 25, Add	40.71	
			For >25 To 50, Add	25.42	
			For >50 To 100, Add	12.71	
			For >500 To 1,000, Deduct	-2.07	
			For >1,000 To 2,000, Deduct	-3.28	
			For >2,000 To 5,000, Deduct	-5.97	
			For >5,000, Deduct	-9.70	
33 01 30 72-0020	LF		4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	46.01	
			For Vinlyester Resin, Add	21.26	
			For Epoxy Resin, Add	2.51	
			For Up To >10, Add	62.11	
			For >10 To 25, Add	46.69	
			For >25 To 50, Add	29.53	
			For >50 To 100, Add	14.77	
			For >500 To 1,000, Deduct	-2.69	
			For >1,000 To 2,000, Deduct	-4.23	
			For >2,000 To 5,000, Deduct	-7.55	
			For >5,000, Deduct	-12.33	
33 01 30 72-0021	LF		4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	57.82	
			For Vinlyester Resin, Add	28.57	
			For Epoxy Resin, Add	3.37	
			For Up To >10, Add	71.44	
			For >10 To 25, Add	52.73	
			For >25 To 50, Add	33.68	
			For >50 To 100, Add	16.84	
			For >500 To 1,000, Deduct	-3.32	
			For >1,000 To 2,000, Deduct	-5.19	
			For >2,000 To 5,000, Deduct	-9.15	
			For >5,000, Deduct	-14.97	
33 01 30 72-0022			6mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023	LF		6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.51	
			For Vinlyester Resin, Add	13.45	
			For Epoxy Resin, Add	1.59	
			For Up To >10, Add	52.48	
			For >10 To 25, Add	40.53	
			For >25 To 50, Add	25.28	
			For >50 To 100, Add	12.64	
			For >500 To 1,000, Deduct	-2.03	
			For >1,000 To 2,000, Deduct	-3.23	
			For >2,000 To 5,000, Deduct	-5.88	
			For >5,000, Deduct	-9.56	
33 01 30 72-0024	LF		6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	40.47	
			For Vinlyester Resin, Add	18.33	
			For Epoxy Resin, Add	2.16	
			For Up To >10, Add	55.96	
			For >10 To 25, Add	42.27	
			For >25 To 50, Add	26.67	
			For >50 To 100, Add	13.34	
			For >500 To 1,000, Deduct	-2.38	
			For >1,000 To 2,000, Deduct	-3.75	
			For >2,000 To 5,000, Deduct	-6.71	
			For >5,000, Deduct	-10.95	
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	55.73	
			For Vinlyester Resin, Add	28.06	
			For Epoxy Resin, Add	3.31	
			For Up To >10, Add	66.97	
			For >10 To 25, Add	49.12	
			For >25 To 50, Add	31.48	
			For >50 To 100, Add	15.74	
			For >500 To 1,000, Deduct	-3.18	
			For >1,000 To 2,000, Deduct	-4.96	
			For >2,000 To 5,000, Deduct	-8.72	
			For >5,000, Deduct	-14.27	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	71.01	
			For Vinlyester Resin, Add	37.80	
			For Epoxy Resin, Add	4.46	
			For Up To >10, Add	78.03	
			For >10 To 25, Add	56.03	
			For >25 To 50, Add	36.32	
			For >50 To 100, Add	18.16	
			For >500 To 1,000, Deduct	-3.98	
			For >1,000 To 2,000, Deduct	-6.18	
			For >2,000 To 5,000, Deduct	-10.73	
			For >5,000, Deduct	-17.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	86.41	
For Vinylster Resin, Add	47.54	
For Epoxy Resin, Add	5.60	
For Up To >10, Add	89.46	
For >10 To 25, Add	63.23	
For >25 To 50, Add	41.33	
For >50 To 100, Add	20.67	
For >500 To 1,000, Deduct	-4.78	
For >1,000 To 2,000, Deduct	-7.41	
For >2,000 To 5,000, Deduct	-12.77	
For >5,000, Deduct	-20.98	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	102.22	
For Vinylster Resin, Add	57.27	
For Epoxy Resin, Add	6.75	
For Up To >10, Add	102.11	
For >10 To 25, Add	71.46	
For >25 To 50, Add	46.96	
For >50 To 100, Add	23.48	
For >500 To 1,000, Deduct	-5.62	
For >1,000 To 2,000, Deduct	-8.69	
For >2,000 To 5,000, Deduct	-14.92	
For >5,000, Deduct	-24.52	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	46.50	
For Vinylster Resin, Add	22.55	
For Epoxy Resin, Add	2.66	
For Up To >10, Add	58.98	
For >10 To 25, Add	43.78	
For >25 To 50, Add	27.88	
For >50 To 100, Add	13.94	
For >500 To 1,000, Deduct	-2.68	
For >1,000 To 2,000, Deduct	-4.20	
For >2,000 To 5,000, Deduct	-7.44	
For >5,000, Deduct	-12.16	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	65.23	
For Vinylster Resin, Add	34.71	
For Epoxy Resin, Add	4.09	
For Up To >10, Add	71.72	
For >10 To 25, Add	51.50	
For >25 To 50, Add	33.38	
For >50 To 100, Add	16.69	
For >500 To 1,000, Deduct	-3.65	
For >1,000 To 2,000, Deduct	-5.67	
For >2,000 To 5,000, Deduct	-9.86	
For >5,000, Deduct	-16.17	
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	83.99	
For Vinylster Resin, Add	46.89	
For Epoxy Resin, Add	5.53	
For Up To >10, Add	84.52	
For >10 To 25, Add	59.27	
For >25 To 50, Add	38.91	
For >50 To 100, Add	19.46	
For >500 To 1,000, Deduct	-4.62	
For >1,000 To 2,000, Deduct	-7.15	
For >2,000 To 5,000, Deduct	-12.29	
For >5,000, Deduct	-20.20	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	102.87	
For Vinylster Resin, Add	59.06	
For Epoxy Resin, Add	6.96	
For Up To >10, Add	97.69	
For >10 To 25, Add	67.34	
For >25 To 50, Add	44.62	
For >50 To 100, Add	22.31	
For >500 To 1,000, Deduct	-5.61	
For >1,000 To 2,000, Deduct	-8.64	
For >2,000 To 5,000, Deduct	-14.75	
For >5,000, Deduct	-24.27	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	122.15	
For Vinylster Resin, Add	71.23	
For Epoxy Resin, Add	8.39	
For Up To >10, Add	112.08	
For >10 To 25, Add	76.44	
For >25 To 50, Add	50.95	
For >50 To 100, Add	25.48	
For >500 To 1,000, Deduct	-6.62	
For >1,000 To 2,000, Deduct	-10.18	
For >2,000 To 5,000, Deduct	-17.31	
For >5,000, Deduct	-28.51	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0035	LF	7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	150.96	
			For Vinlyester Resin, Add	89.49	
			For Epoxy Resin, Add	10.55	
			For Up To >10, Add	133.28	
			For >10 To 25, Add	89.76	
			For >25 To 50, Add	60.25	
			For >50 To 100, Add	30.12	
			For >500 To 1,000, Deduct	-8.13	
			For >1,000 To 2,000, Deduct	-12.48	
			For >2,000 To 5,000, Deduct	-21.12	
			For >5,000, Deduct	-34.82	
33 01 30	72-0036	LF	7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.03	
			For Vinlyester Resin, Add	107.74	
			For Epoxy Resin, Add	12.70	
			For Up To >10, Add	155.32	
			For >10 To 25, Add	103.78	
			For >25 To 50, Add	69.96	
			For >50 To 100, Add	34.98	
			For >500 To 1,000, Deduct	-9.65	
			For >1,000 To 2,000, Deduct	-14.81	
			For >2,000 To 5,000, Deduct	-25.00	
			For >5,000, Deduct	-41.23	
33 01 30	72-0037		9mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30	72-0038	LF	9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	74.53	
			For Vinlyester Resin, Add	41.22	
			For Epoxy Resin, Add	4.86	
			For Up To >10, Add	76.37	
			For >10 To 25, Add	53.82	
			For >25 To 50, Add	35.24	
			For >50 To 100, Add	17.62	
			For >500 To 1,000, Deduct	-4.12	
			For >1,000 To 2,000, Deduct	-6.37	
			For >2,000 To 5,000, Deduct	-10.98	
			For >5,000, Deduct	-18.03	
33 01 30	72-0039	LF	9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	96.77	
			For Vinlyester Resin, Add	55.83	
			For Epoxy Resin, Add	6.58	
			For Up To >10, Add	90.91	
			For >10 To 25, Add	62.47	
			For >25 To 50, Add	41.47	
			For >50 To 100, Add	20.73	
			For >500 To 1,000, Deduct	-5.26	
			For >1,000 To 2,000, Deduct	-8.11	
			For >2,000 To 5,000, Deduct	-13.82	
			For >5,000, Deduct	-22.76	
33 01 30	72-0040	LF	9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	119.13	
			For Vinlyester Resin, Add	70.44	
			For Epoxy Resin, Add	8.30	
			For Up To >10, Add	105.82	
			For >10 To 25, Add	71.41	
			For >25 To 50, Add	47.88	
			For >50 To 100, Add	23.94	
			For >500 To 1,000, Deduct	-6.42	
			For >1,000 To 2,000, Deduct	-9.86	
			For >2,000 To 5,000, Deduct	-16.70	
			For >5,000, Deduct	-27.53	
33 01 30	72-0041	LF	9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	141.89	
			For Vinlyester Resin, Add	85.04	
			For Epoxy Resin, Add	10.02	
			For Up To >10, Add	121.95	
			For >10 To 25, Add	81.37	
			For >25 To 50, Add	54.90	
			For >50 To 100, Add	27.45	
			For >500 To 1,000, Deduct	-7.60	
			For >1,000 To 2,000, Deduct	-11.66	
			For >2,000 To 5,000, Deduct	-19.68	
			For >5,000, Deduct	-32.46	
33 01 30	72-0042	LF	9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	175.91	
			For Vinlyester Resin, Add	106.95	
			For Epoxy Resin, Add	12.61	
			For Up To >10, Add	145.76	
			For >10 To 25, Add	96.00	
			For >25 To 50, Add	65.24	
			For >50 To 100, Add	32.62	
			For >500 To 1,000, Deduct	-9.37	
			For >1,000 To 2,000, Deduct	-14.35	
			For >2,000 To 5,000, Deduct	-24.11	
			For >5,000, Deduct	-39.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	210.20	
For Vinylster Resin, Add	128.86	
For Epoxy Resin, Add	15.19	
For Up To >10, Add	170.40	
For >10 To 25, Add	111.32	
For >25 To 50, Add	76.00	
For >50 To 100, Add	38.00	
For >500 To 1,000, Deduct	-11.16	
For >1,000 To 2,000, Deduct	-17.07	
For >2,000 To 5,000, Deduct	-28.62	
For >5,000, Deduct	-47.26	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	243.68	
For Vinylster Resin, Add	150.77	
For Epoxy Resin, Add	17.77	
For Up To >10, Add	192.59	
For >10 To 25, Add	124.60	
For >25 To 50, Add	85.53	
For >50 To 100, Add	42.76	
For >500 To 1,000, Deduct	-12.89	
For >1,000 To 2,000, Deduct	-19.69	
For >2,000 To 5,000, Deduct	-32.92	
For >5,000, Deduct	-54.40	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	277.56	
For Vinylster Resin, Add	172.68	
For Epoxy Resin, Add	20.35	
For Up To >10, Add	215.98	
For >10 To 25, Add	138.87	
For >25 To 50, Add	95.66	
For >50 To 100, Add	47.83	
For >500 To 1,000, Deduct	-14.65	
For >1,000 To 2,000, Deduct	-22.36	
For >2,000 To 5,000, Deduct	-37.32	
For >5,000, Deduct	-61.69	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	200.65	
For Vinylster Resin, Add	124.27	
For Epoxy Resin, Add	14.65	
For Up To >10, Add	158.13	
For >10 To 25, Add	102.18	
For >25 To 50, Add	70.19	
For >50 To 100, Add	35.09	
For >500 To 1,000, Deduct	-10.61	
For >1,000 To 2,000, Deduct	-16.20	
For >2,000 To 5,000, Deduct	-27.08	
For >5,000, Deduct	-44.75	
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	240.16	
For Vinylster Resin, Add	149.83	
For Epoxy Resin, Add	17.66	
For Up To >10, Add	185.38	
For >10 To 25, Add	118.81	
For >25 To 50, Add	81.99	
For >50 To 100, Add	40.99	
For >500 To 1,000, Deduct	-12.66	
For >1,000 To 2,000, Deduct	-19.32	
For >2,000 To 5,000, Deduct	-32.21	
For >5,000, Deduct	-53.26	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	278.86	
For Vinylster Resin, Add	175.39	
For Epoxy Resin, Add	20.67	
For Up To >10, Add	210.18	
For >10 To 25, Add	133.39	
For >25 To 50, Add	92.56	
For >50 To 100, Add	46.28	
For >500 To 1,000, Deduct	-14.65	
For >1,000 To 2,000, Deduct	-22.33	
For >2,000 To 5,000, Deduct	-37.14	
For >5,000, Deduct	-61.43	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	317.95	
For Vinylster Resin, Add	200.95	
For Epoxy Resin, Add	23.68	
For Up To >10, Add	236.18	
For >10 To 25, Add	148.97	
For >25 To 50, Add	103.73	
For >50 To 100, Add	51.87	
For >500 To 1,000, Deduct	-16.67	
For >1,000 To 2,000, Deduct	-25.39	
For >2,000 To 5,000, Deduct	-42.17	
For >5,000, Deduct	-69.77	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	357.59	
For Vinlyester Resin, Add	226.51	
For Epoxy Resin, Add	26.70	
For Up To >10, Add	263.82	
For >10 To 25, Add	165.92	
For >25 To 50, Add	115.73	
For >50 To 100, Add	57.87	
For >500 To 1,000, Deduct	-18.73	
For >1,000 To 2,000, Deduct	-28.52	
For >2,000 To 5,000, Deduct	-47.33	
For >5,000, Deduct	-78.32	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	397.92	
For Vinlyester Resin, Add	252.07	
For Epoxy Resin, Add	29.71	
For Up To >10, Add	293.51	
For >10 To 25, Add	184.58	
For >25 To 50, Add	128.75	
For >50 To 100, Add	64.38	
For >500 To 1,000, Deduct	-20.84	
For >1,000 To 2,000, Deduct	-31.74	
For >2,000 To 5,000, Deduct	-52.67	
For >5,000, Deduct	-87.15	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	475.70	
For Vinlyester Resin, Add	303.18	
For Epoxy Resin, Add	35.73	
For Up To >10, Add	344.30	
For >10 To 25, Add	214.73	
For >25 To 50, Add	150.49	
For >50 To 100, Add	75.25	
For >500 To 1,000, Deduct	-24.85	
For >1,000 To 2,000, Deduct	-37.81	
For >2,000 To 5,000, Deduct	-62.62	
For >5,000, Deduct	-103.66	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	225.19	
For Vinlyester Resin, Add	141.45	
For Epoxy Resin, Add	16.67	
For Up To >10, Add	170.40	
For >10 To 25, Add	108.32	
For >25 To 50, Add	75.09	
For >50 To 100, Add	37.55	
For >500 To 1,000, Deduct	-11.84	
For >1,000 To 2,000, Deduct	-18.05	
For >2,000 To 5,000, Deduct	-30.03	
For >5,000, Deduct	-49.66	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	269.92	
For Vinlyester Resin, Add	170.66	
For Epoxy Resin, Add	20.11	
For Up To >10, Add	200.26	
For >10 To 25, Add	126.25	
For >25 To 50, Add	87.94	
For >50 To 100, Add	43.97	
For >500 To 1,000, Deduct	-14.15	
For >1,000 To 2,000, Deduct	-21.55	
For >2,000 To 5,000, Deduct	-35.79	
For >5,000, Deduct	-59.21	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.83	
For Vinlyester Resin, Add	199.87	
For Epoxy Resin, Add	23.56	
For Up To >10, Add	227.67	
For >10 To 25, Add	142.13	
For >25 To 50, Add	99.56	
For >50 To 100, Add	49.78	
For >500 To 1,000, Deduct	-16.40	
For >1,000 To 2,000, Deduct	-24.95	
For >2,000 To 5,000, Deduct	-41.34	
For >5,000, Deduct	-68.43	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	358.14	
For Vinlyester Resin, Add	229.08	
For Epoxy Resin, Add	27.00	
For Up To >10, Add	256.27	
For >10 To 25, Add	159.02	
For >25 To 50, Add	111.77	
For >50 To 100, Add	55.89	
For >500 To 1,000, Deduct	-18.68	
For >1,000 To 2,000, Deduct	-28.40	
For >2,000 To 5,000, Deduct	-46.99	
For >5,000, Deduct	-77.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	403.00	
For Vinylster Resin, Add	258.29	
For Epoxy Resin, Add	30.44	
For Up To >10, Add	286.53	
For >10 To 25, Add	177.27	
For >25 To 50, Add	124.81	
For >50 To 100, Add	62.41	
For >500 To 1,000, Deduct	-21.00	
For >1,000 To 2,000, Deduct	-31.93	
For >2,000 To 5,000, Deduct	-52.78	
For >5,000, Deduct	-87.40	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	448.54	
For Vinylster Resin, Add	287.50	
For Epoxy Resin, Add	33.88	
For Up To >10, Add	318.82	
For >10 To 25, Add	197.23	
For >25 To 50, Add	138.87	
For >50 To 100, Add	69.44	
For >500 To 1,000, Deduct	-23.37	
For >1,000 To 2,000, Deduct	-35.53	
For >2,000 To 5,000, Deduct	-58.74	
For >5,000, Deduct	-97.27	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	536.76	
For Vinylster Resin, Add	345.93	
For Epoxy Resin, Add	40.77	
For Up To >10, Add	374.83	
For >10 To 25, Add	230.00	
For >25 To 50, Add	162.71	
For >50 To 100, Add	81.35	
For >500 To 1,000, Deduct	-27.90	
For >1,000 To 2,000, Deduct	-42.39	
For >2,000 To 5,000, Deduct	-69.95	
For >5,000, Deduct	-115.87	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	626.19	
For Vinylster Resin, Add	404.34	
For Epoxy Resin, Add	47.65	
For Up To >10, Add	434.50	
For >10 To 25, Add	265.81	
For >25 To 50, Add	188.37	
For >50 To 100, Add	94.18	
For >500 To 1,000, Deduct	-32.52	
For >1,000 To 2,000, Deduct	-49.39	
For >2,000 To 5,000, Deduct	-81.46	
For >5,000, Deduct	-134.95	
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	717.81	
For Vinylster Resin, Add	462.76	
For Epoxy Resin, Add	54.54	
For Up To >10, Add	500.71	
For >10 To 25, Add	307.07	
For >25 To 50, Add	217.30	
For >50 To 100, Add	108.65	
For >500 To 1,000, Deduct	-37.31	
For >1,000 To 2,000, Deduct	-56.67	
For >2,000 To 5,000, Deduct	-93.51	
For >5,000, Deduct	-154.91	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	249.52	
For Vinylster Resin, Add	158.48	
For Epoxy Resin, Add	18.68	
For Up To >10, Add	182.56	
For >10 To 25, Add	114.40	
For >25 To 50, Add	79.96	
For >50 To 100, Add	39.98	
For >500 To 1,000, Deduct	-13.05	
For >1,000 To 2,000, Deduct	-19.87	
For >2,000 To 5,000, Deduct	-32.95	
For >5,000, Deduct	-54.53	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	299.48	
For Vinylster Resin, Add	191.35	
For Epoxy Resin, Add	22.55	
For Up To >10, Add	215.04	
For >10 To 25, Add	133.64	
For >25 To 50, Add	93.85	
For >50 To 100, Add	46.93	
For >500 To 1,000, Deduct	-15.63	
For >1,000 To 2,000, Deduct	-23.77	
For >2,000 To 5,000, Deduct	-39.33	
For >5,000, Deduct	-65.12	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

33 01 30 72-0067	LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	348.60	
	For Vinlyester Resin, Add	224.21	
	For Epoxy Resin, Add	26.42	
	For Up To >10, Add	245.05	
	For >10 To 25, Add	150.83	
	For >25 To 50, Add	106.51	
	For >50 To 100, Add	53.26	
	For >500 To 1,000, Deduct	-18.14	
	For >1,000 To 2,000, Deduct	-27.56	
	For >2,000 To 5,000, Deduct	-45.51	
	For >5,000, Deduct	-75.38	
33 01 30 72-0068	LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	398.13	
	For Vinlyester Resin, Add	257.08	
	For Epoxy Resin, Add	30.30	
	For Up To >10, Add	276.27	
	For >10 To 25, Add	169.01	
	For >25 To 50, Add	119.77	
	For >50 To 100, Add	59.89	
	For >500 To 1,000, Deduct	-20.68	
	For >1,000 To 2,000, Deduct	-31.40	
	For >2,000 To 5,000, Deduct	-51.79	
	For >5,000, Deduct	-85.80	
33 01 30 72-0069	LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	448.20	
	For Vinlyester Resin, Add	289.93	
	For Epoxy Resin, Add	34.17	
	For Up To >10, Add	309.13	
	For >10 To 25, Add	188.57	
	For >25 To 50, Add	133.85	
	For >50 To 100, Add	66.93	
	For >500 To 1,000, Deduct	-23.26	
	For >1,000 To 2,000, Deduct	-35.32	
	For >2,000 To 5,000, Deduct	-58.21	
	For >5,000, Deduct	-96.44	
33 01 30 72-0070	LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	498.95	
	For Vinlyester Resin, Add	322.79	
	For Epoxy Resin, Add	38.04	
	For Up To >10, Add	344.03	
	For >10 To 25, Add	209.83	
	For >25 To 50, Add	148.96	
	For >50 To 100, Add	74.48	
	For >500 To 1,000, Deduct	-25.89	
	For >1,000 To 2,000, Deduct	-39.31	
	For >2,000 To 5,000, Deduct	-64.79	
	For >5,000, Deduct	-107.35	
33 01 30 72-0071	LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	597.60	
	For Vinlyester Resin, Add	388.51	
	For Epoxy Resin, Add	45.79	
	For Up To >10, Add	405.25	
	For >10 To 25, Add	245.21	
	For >25 To 50, Add	174.87	
	For >50 To 100, Add	87.44	
	For >500 To 1,000, Deduct	-30.94	
	For >1,000 To 2,000, Deduct	-46.95	
	For >2,000 To 5,000, Deduct	-77.25	
	For >5,000, Deduct	-128.04	
33 01 30 72-0072	LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	697.47	
	For Vinlyester Resin, Add	454.24	
	For Epoxy Resin, Add	53.54	
	For Up To >10, Add	470.14	
	For >10 To 25, Add	283.63	
	For >25 To 50, Add	202.62	
	For >50 To 100, Add	101.31	
	For >500 To 1,000, Deduct	-36.09	
	For >1,000 To 2,000, Deduct	-54.74	
	For >2,000 To 5,000, Deduct	-90.01	
	For >5,000, Deduct	-149.21	
33 01 30 72-0073	LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	799.52	
	For Vinlyester Resin, Add	519.96	
	For Epoxy Resin, Add	61.28	
	For Up To >10, Add	541.56	
	For >10 To 25, Add	327.50	
	For >25 To 50, Add	233.64	
	For >50 To 100, Add	116.82	
	For >500 To 1,000, Deduct	-41.39	
	For >1,000 To 2,000, Deduct	-62.80	
	For >2,000 To 5,000, Deduct	-103.32	
	For >5,000, Deduct	-171.25	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0075)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	273.66	
For Vinylster Resin, Add	175.38	
For Epoxy Resin, Add	20.67	
For Up To >10, Add	194.63	
For >10 To 25, Add	120.44	
For >25 To 50, Add	84.79	
For >50 To 100, Add	42.39	
For >500 To 1,000, Deduct	-14.26	
For >1,000 To 2,000, Deduct	-21.68	
For >2,000 To 5,000, Deduct	-35.84	
For >5,000, Deduct	-59.36	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.82	
For Vinylster Resin, Add	211.89	
For Epoxy Resin, Add	24.97	
For Up To >10, Add	229.71	
For >10 To 25, Add	140.98	
For >25 To 50, Add	99.72	
For >50 To 100, Add	49.86	
For >500 To 1,000, Deduct	-17.09	
For >1,000 To 2,000, Deduct	-25.97	
For >2,000 To 5,000, Deduct	-42.85	
For >5,000, Deduct	-70.99	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	383.16	
For Vinylster Resin, Add	248.40	
For Epoxy Resin, Add	29.28	
For Up To >10, Add	262.33	
For >10 To 25, Add	159.47	
For >25 To 50, Add	113.42	
For >50 To 100, Add	56.71	
For >500 To 1,000, Deduct	-19.87	
For >1,000 To 2,000, Deduct	-30.15	
For >2,000 To 5,000, Deduct	-49.66	
For >5,000, Deduct	-82.29	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	437.90	
For Vinylster Resin, Add	284.91	
For Epoxy Resin, Add	33.58	
For Up To >10, Add	296.15	
For >10 To 25, Add	178.96	
For >25 To 50, Add	127.72	
For >50 To 100, Add	63.86	
For >500 To 1,000, Deduct	-22.67	
For >1,000 To 2,000, Deduct	-34.39	
For >2,000 To 5,000, Deduct	-56.56	
For >5,000, Deduct	-93.76	
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	493.19	
For Vinylster Resin, Add	321.43	
For Epoxy Resin, Add	37.88	
For Up To >10, Add	331.62	
For >10 To 25, Add	199.82	
For >25 To 50, Add	142.85	
For >50 To 100, Add	71.43	
For >500 To 1,000, Deduct	-25.51	
For >1,000 To 2,000, Deduct	-38.69	
For >2,000 To 5,000, Deduct	-63.60	
For >5,000, Deduct	-105.44	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	549.16	
For Vinylster Resin, Add	357.94	
For Epoxy Resin, Add	42.19	
For Up To >10, Add	369.13	
For >10 To 25, Add	222.39	
For >25 To 50, Add	159.00	
For >50 To 100, Add	79.50	
For >500 To 1,000, Deduct	-28.40	
For >1,000 To 2,000, Deduct	-43.08	
For >2,000 To 5,000, Deduct	-70.82	
For >5,000, Deduct	-117.40	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	658.25	
For Vinylster Resin, Add	430.97	
For Epoxy Resin, Add	50.79	
For Up To >10, Add	435.58	
For >10 To 25, Add	260.37	
For >25 To 50, Add	187.00	
For >50 To 100, Add	93.50	
For >500 To 1,000, Deduct	-33.98	
For >1,000 To 2,000, Deduct	-51.50	
For >2,000 To 5,000, Deduct	-84.53	
For >5,000, Deduct	-140.17	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0082	LF	15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	768.55	
			For Vinlyester Resin, Add	503.99	
			For Epoxy Resin, Add	59.40	
			For Up To >10, Add	505.68	
			For >10 To 25, Add	301.40	
			For >25 To 50, Add	216.84	
			For >50 To 100, Add	108.42	
			For >500 To 1,000, Deduct	-39.64	
			For >1,000 To 2,000, Deduct	-60.07	
			For >2,000 To 5,000, Deduct	-98.54	
			For >5,000, Deduct	-163.42	
33 01 30	72-0083	LF	15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	881.03	
			For Vinlyester Resin, Add	577.02	
			For Epoxy Resin, Add	68.01	
			For Up To >10, Add	582.32	
			For >10 To 25, Add	347.88	
			For >25 To 50, Add	249.94	
			For >50 To 100, Add	124.97	
			For >500 To 1,000, Deduct	-45.47	
			For >1,000 To 2,000, Deduct	-68.91	
			For >2,000 To 5,000, Deduct	-113.10	
			For >5,000, Deduct	-187.55	
33 01 30	72-0084		16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30	72-0085	LF	16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	357.96	
			For Vinlyester Resin, Add	232.29	
			For Epoxy Resin, Add	27.38	
			For Up To >10, Add	244.28	
			For >10 To 25, Add	148.26	
			For >25 To 50, Add	105.55	
			For >50 To 100, Add	52.77	
			For >500 To 1,000, Deduct	-18.55	
			For >1,000 To 2,000, Deduct	-28.15	
			For >2,000 To 5,000, Deduct	-46.35	
			For >5,000, Deduct	-76.82	
33 01 30	72-0086	LF	16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	417.51	
			For Vinlyester Resin, Add	272.45	
			For Epoxy Resin, Add	32.11	
			For Up To >10, Add	279.51	
			For >10 To 25, Add	168.05	
			For >25 To 50, Add	120.29	
			For >50 To 100, Add	60.15	
			For >500 To 1,000, Deduct	-21.58	
			For >1,000 To 2,000, Deduct	-32.73	
			For >2,000 To 5,000, Deduct	-53.78	
			For >5,000, Deduct	-89.16	
33 01 30	72-0087	LF	16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	477.47	
			For Vinlyester Resin, Add	312.61	
			For Epoxy Resin, Add	36.84	
			For Up To >10, Add	315.94	
			For >10 To 25, Add	188.85	
			For >25 To 50, Add	135.64	
			For >50 To 100, Add	67.82	
			For >500 To 1,000, Deduct	-24.65	
			For >1,000 To 2,000, Deduct	-37.35	
			For >2,000 To 5,000, Deduct	-61.31	
			For >5,000, Deduct	-101.67	
33 01 30	72-0088	LF	16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	537.98	
			For Vinlyester Resin, Add	352.78	
			For Epoxy Resin, Add	41.58	
			For Up To >10, Add	354.02	
			For >10 To 25, Add	211.02	
			For >25 To 50, Add	151.81	
			For >50 To 100, Add	75.90	
			For >500 To 1,000, Deduct	-27.75	
			For >1,000 To 2,000, Deduct	-42.05	
			For >2,000 To 5,000, Deduct	-68.98	
			For >5,000, Deduct	-114.40	
33 01 30	72-0089	LF	16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	599.17	
			For Vinlyester Resin, Add	392.95	
			For Epoxy Resin, Add	46.31	
			For Up To >10, Add	394.14	
			For >10 To 25, Add	234.89	
			For >25 To 50, Add	169.00	
			For >50 To 100, Add	84.50	
			For >500 To 1,000, Deduct	-30.90	
			For >1,000 To 2,000, Deduct	-46.83	
			For >2,000 To 5,000, Deduct	-76.82	
			For >5,000, Deduct	-127.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	718.69	
<i>For Vinylster Resin, Add</i>	473.28	
<i>For Epoxy Resin, Add</i>	55.78	
<i>For Up To >10, Add</i>	465.80	
<i>For >10 To 25, Add</i>	275.48	
<i>For >25 To 50, Add</i>	199.09	
<i>For >50 To 100, Add</i>	99.55	
<i>For >500 To 1,000, Deduct</i>	-37.00	
<i>For >1,000 To 2,000, Deduct</i>	-56.03	
<i>For >2,000 To 5,000, Deduct</i>	-91.78	
<i>For >5,000, Deduct</i>	-152.25	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	839.42	
<i>For Vinylster Resin, Add</i>	553.60	
<i>For Epoxy Resin, Add</i>	65.25	
<i>For Up To >10, Add</i>	541.11	
<i>For >10 To 25, Add</i>	319.12	
<i>For >25 To 50, Add</i>	231.01	
<i>For >50 To 100, Add</i>	115.51	
<i>For >500 To 1,000, Deduct</i>	-43.19	
<i>For >1,000 To 2,000, Deduct</i>	-65.38	
<i>For >2,000 To 5,000, Deduct</i>	-107.04	
<i>For >5,000, Deduct</i>	-177.60	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	962.33	
<i>For Vinylster Resin, Add</i>	633.93	
<i>For Epoxy Resin, Add</i>	74.71	
<i>For Up To >10, Add</i>	622.97	
<i>For >10 To 25, Add</i>	368.20	
<i>For >25 To 50, Add</i>	266.20	
<i>For >50 To 100, Add</i>	133.10	
<i>For >500 To 1,000, Deduct</i>	-49.53	
<i>For >1,000 To 2,000, Deduct</i>	-75.01	
<i>For >2,000 To 5,000, Deduct</i>	-122.85	
<i>For >5,000, Deduct</i>	-203.81	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,084.31	
<i>For Vinylster Resin, Add</i>	714.26	
<i>For Epoxy Resin, Add</i>	84.18	
<i>For Up To >10, Add</i>	702.01	
<i>For >10 To 25, Add</i>	414.94	
<i>For >25 To 50, Add</i>	299.98	
<i>For >50 To 100, Add</i>	149.99	
<i>For >500 To 1,000, Deduct</i>	-55.81	
<i>For >1,000 To 2,000, Deduct</i>	-84.52	
<i>For >2,000 To 5,000, Deduct</i>	-138.43	
<i>For >5,000, Deduct</i>	-229.65	
33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	387.57	
<i>For Vinylster Resin, Add</i>	252.54	
<i>For Epoxy Resin, Add</i>	29.76	
<i>For Up To >10, Add</i>	260.79	
<i>For >10 To 25, Add</i>	157.19	
<i>For >25 To 50, Add</i>	112.35	
<i>For >50 To 100, Add</i>	56.18	
<i>For >500 To 1,000, Deduct</i>	-20.05	
<i>For >1,000 To 2,000, Deduct</i>	-30.41	
<i>For >2,000 To 5,000, Deduct</i>	-49.99	
<i>For >5,000, Deduct</i>	-82.87	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	452.48	
<i>For Vinylster Resin, Add</i>	296.36	
<i>For Epoxy Resin, Add</i>	34.93	
<i>For Up To >10, Add</i>	299.02	
<i>For >10 To 25, Add</i>	178.62	
<i>For >25 To 50, Add</i>	128.34	
<i>For >50 To 100, Add</i>	64.17	
<i>For >500 To 1,000, Deduct</i>	-23.35	
<i>For >1,000 To 2,000, Deduct</i>	-35.39	
<i>For >2,000 To 5,000, Deduct</i>	-58.08	
<i>For >5,000, Deduct</i>	-96.32	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	517.65	
<i>For Vinylster Resin, Add</i>	340.17	
<i>For Epoxy Resin, Add</i>	40.09	
<i>For Up To >10, Add</i>	338.05	
<i>For >10 To 25, Add</i>	200.72	
<i>For >25 To 50, Add</i>	144.73	
<i>For >50 To 100, Add</i>	72.36	
<i>For >500 To 1,000, Deduct</i>	-26.67	
<i>For >1,000 To 2,000, Deduct</i>	-40.41	
<i>For >2,000 To 5,000, Deduct</i>	-66.24	
<i>For >5,000, Deduct</i>	-109.87	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0098	LF		18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	583.52	
			<i>For Vinlyester Resin, Add</i>	383.99	
			<i>For Epoxy Resin, Add</i>	45.26	
			<i>For Up To >10, Add</i>	379.16	
			<i>For >10 To 25, Add</i>	224.54	
			<i>For >25 To 50, Add</i>	162.15	
			<i>For >50 To 100, Add</i>	81.08	
			<i>For >500 To 1,000, Deduct</i>	-30.05	
			<i>For >1,000 To 2,000, Deduct</i>	-45.51	
			<i>For >2,000 To 5,000, Deduct</i>	-74.57	
			<i>For >5,000, Deduct</i>	-123.70	
33 01 30 72-0099	LF		18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	649.91	
			<i>For Vinlyester Resin, Add</i>	427.80	
			<i>For Epoxy Resin, Add</i>	50.42	
			<i>For Up To >10, Add</i>	421.88	
			<i>For >10 To 25, Add</i>	249.71	
			<i>For >25 To 50, Add</i>	180.38	
			<i>For >50 To 100, Add</i>	90.19	
			<i>For >500 To 1,000, Deduct</i>	-33.46	
			<i>For >1,000 To 2,000, Deduct</i>	-50.68	
			<i>For >2,000 To 5,000, Deduct</i>	-83.03	
			<i>For >5,000, Deduct</i>	-137.74	
33 01 30 72-0100	LF		18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	780.96	
			<i>For Vinlyester Resin, Add</i>	515.44	
			<i>For Epoxy Resin, Add</i>	60.75	
			<i>For Up To >10, Add</i>	502.03	
			<i>For >10 To 25, Add</i>	295.64	
			<i>For >25 To 50, Add</i>	214.20	
			<i>For >50 To 100, Add</i>	107.10	
			<i>For >500 To 1,000, Deduct</i>	-40.16	
			<i>For >1,000 To 2,000, Deduct</i>	-60.80	
			<i>For >2,000 To 5,000, Deduct</i>	-99.52	
			<i>For >5,000, Deduct</i>	-165.12	
33 01 30 72-0101	LF		18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	912.55	
			<i>For Vinlyester Resin, Add</i>	603.07	
			<i>For Epoxy Resin, Add</i>	71.08	
			<i>For Up To >10, Add</i>	583.83	
			<i>For >10 To 25, Add</i>	342.93	
			<i>For >25 To 50, Add</i>	248.84	
			<i>For >50 To 100, Add</i>	124.42	
			<i>For >500 To 1,000, Deduct</i>	-46.90	
			<i>For >1,000 To 2,000, Deduct</i>	-70.99	
			<i>For >2,000 To 5,000, Deduct</i>	-116.14	
			<i>For >5,000, Deduct</i>	-192.71	
33 01 30 72-0102	LF		18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,046.29	
			<i>For Vinlyester Resin, Add</i>	690.70	
			<i>For Epoxy Resin, Add</i>	81.40	
			<i>For Up To >10, Add</i>	672.10	
			<i>For >10 To 25, Add</i>	395.63	
			<i>For >25 To 50, Add</i>	286.71	
			<i>For >50 To 100, Add</i>	143.36	
			<i>For >500 To 1,000, Deduct</i>	-53.80	
			<i>For >1,000 To 2,000, Deduct</i>	-81.45	
			<i>For >2,000 To 5,000, Deduct</i>	-133.30	
			<i>For >5,000, Deduct</i>	-221.17	
33 01 30 72-0103	LF		18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,179.10	
			<i>For Vinlyester Resin, Add</i>	778.33	
			<i>For Epoxy Resin, Add</i>	91.73	
			<i>For Up To >10, Add</i>	757.55	
			<i>For >10 To 25, Add</i>	445.98	
			<i>For >25 To 50, Add</i>	323.18	
			<i>For >50 To 100, Add</i>	161.59	
			<i>For >500 To 1,000, Deduct</i>	-60.64	
			<i>For >1,000 To 2,000, Deduct</i>	-91.79	
			<i>For >2,000 To 5,000, Deduct</i>	-150.23	
			<i>For >5,000, Deduct</i>	-249.26	
33 01 30 72-0104	LF		18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,311.76	
			<i>For Vinlyester Resin, Add</i>	865.96	
			<i>For Epoxy Resin, Add</i>	102.06	
			<i>For Up To >10, Add</i>	842.58	
			<i>For >10 To 25, Add</i>	495.97	
			<i>For >25 To 50, Add</i>	359.44	
			<i>For >50 To 100, Add</i>	179.72	
			<i>For >500 To 1,000, Deduct</i>	-67.46	
			<i>For >1,000 To 2,000, Deduct</i>	-102.12	
			<i>For >2,000 To 5,000, Deduct</i>	-167.12	
			<i>For >5,000, Deduct</i>	-277.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,444.98	
For Vinylster Resin, Add	953.59	
For Epoxy Resin, Add	112.39	
For Up To >10, Add	929.27	
For >10 To 25, Add	547.34	
For >25 To 50, Add	396.52	
For >50 To 100, Add	198.26	
For >500 To 1,000, Deduct	-74.32	
For >1,000 To 2,000, Deduct	-112.51	
For >2,000 To 5,000, Deduct	-184.15	
For >5,000, Deduct	-305.54	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,577.78	
For Vinylster Resin, Add	1,041.22	
For Epoxy Resin, Add	122.71	
For Up To >10, Add	1,014.72	
For >10 To 25, Add	597.69	
For >25 To 50, Add	432.99	
For >50 To 100, Add	216.49	
For >500 To 1,000, Deduct	-81.15	
For >1,000 To 2,000, Deduct	-122.85	
For >2,000 To 5,000, Deduct	-201.08	
For >5,000, Deduct	-333.62	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	417.38	
For Vinylster Resin, Add	272.65	
For Epoxy Resin, Add	32.13	
For Up To >10, Add	278.39	
For >10 To 25, Add	167.08	
For >25 To 50, Add	119.72	
For >50 To 100, Add	59.86	
For >500 To 1,000, Deduct	-21.57	
For >1,000 To 2,000, Deduct	-32.70	
For >2,000 To 5,000, Deduct	-53.71	
For >5,000, Deduct	-89.05	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	487.52	
For Vinylster Resin, Add	320.12	
For Epoxy Resin, Add	37.73	
For Up To >10, Add	319.26	
For >10 To 25, Add	189.83	
For >25 To 50, Add	136.76	
For >50 To 100, Add	68.38	
For >500 To 1,000, Deduct	-25.13	
For >1,000 To 2,000, Deduct	-38.07	
For >2,000 To 5,000, Deduct	-62.43	
For >5,000, Deduct	-103.54	
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	558.04	
For Vinylster Resin, Add	367.58	
For Epoxy Resin, Add	43.32	
For Up To >10, Add	361.32	
For >10 To 25, Add	213.58	
For >25 To 50, Add	154.40	
For >50 To 100, Add	77.20	
For >500 To 1,000, Deduct	-28.73	
For >1,000 To 2,000, Deduct	-43.50	
For >2,000 To 5,000, Deduct	-71.24	
For >5,000, Deduct	-118.19	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	628.85	
For Vinylster Resin, Add	415.05	
For Epoxy Resin, Add	48.92	
For Up To >10, Add	404.23	
For >10 To 25, Add	238.03	
For >25 To 50, Add	172.47	
For >50 To 100, Add	86.23	
For >500 To 1,000, Deduct	-32.34	
For >1,000 To 2,000, Deduct	-48.96	
For >2,000 To 5,000, Deduct	-80.13	
For >5,000, Deduct	-132.95	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	700.74	
For Vinylster Resin, Add	462.52	
For Epoxy Resin, Add	54.51	
For Up To >10, Add	450.37	
For >10 To 25, Add	265.19	
For >25 To 50, Add	192.15	
For >50 To 100, Add	96.07	
For >500 To 1,000, Deduct	-36.04	
For >1,000 To 2,000, Deduct	-54.56	
For >2,000 To 5,000, Deduct	-89.29	
For >5,000, Deduct	-148.15	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0113	LF		19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.43	
			<i>For Vinlyester Resin, Add</i>	557.45	
			<i>For Epoxy Resin, Add</i>	65.70	
			<i>For Up To >10, Add</i>	539.39	
			<i>For >10 To 25, Add</i>	316.77	
			<i>For >25 To 50, Add</i>	229.88	
			<i>For >50 To 100, Add</i>	114.94	
			<i>For >500 To 1,000, Deduct</i>	-43.35	
			<i>For >1,000 To 2,000, Deduct</i>	-65.61	
			<i>For >2,000 To 5,000, Deduct</i>	-107.33	
			<i>For >5,000, Deduct</i>	-178.10	
33 01 30 72-0114	LF		19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	986.53	
			<i>For Vinlyester Resin, Add</i>	652.39	
			<i>For Epoxy Resin, Add</i>	76.89	
			<i>For Up To >10, Add</i>	629.64	
			<i>For >10 To 25, Add</i>	369.37	
			<i>For >25 To 50, Add</i>	268.22	
			<i>For >50 To 100, Add</i>	134.11	
			<i>For >500 To 1,000, Deduct</i>	-50.69	
			<i>For >1,000 To 2,000, Deduct</i>	-76.72	
			<i>For >2,000 To 5,000, Deduct</i>	-125.48	
			<i>For >5,000, Deduct</i>	-208.22	
33 01 30 72-0115	LF		19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,130.59	
			<i>For Vinlyester Resin, Add</i>	747.32	
			<i>For Epoxy Resin, Add</i>	88.08	
			<i>For Up To >10, Add</i>	722.77	
			<i>For >10 To 25, Add</i>	424.38	
			<i>For >25 To 50, Add</i>	308.01	
			<i>For >50 To 100, Add</i>	154.00	
			<i>For >500 To 1,000, Deduct</i>	-58.10	
			<i>For >1,000 To 2,000, Deduct</i>	-87.94	
			<i>For >2,000 To 5,000, Deduct</i>	-143.86	
			<i>For >5,000, Deduct</i>	-238.72	
33 01 30 72-0116	LF		19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,274.23	
			<i>For Vinlyester Resin, Add</i>	842.25	
			<i>For Epoxy Resin, Add</i>	99.27	
			<i>For Up To >10, Add</i>	814.64	
			<i>For >10 To 25, Add</i>	478.33	
			<i>For >25 To 50, Add</i>	347.16	
			<i>For >50 To 100, Add</i>	173.58	
			<i>For >500 To 1,000, Deduct</i>	-65.49	
			<i>For >1,000 To 2,000, Deduct</i>	-99.12	
			<i>For >2,000 To 5,000, Deduct</i>	-162.14	
			<i>For >5,000, Deduct</i>	-269.05	
33 01 30 72-0117	LF		19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,417.86	
			<i>For Vinlyester Resin, Add</i>	937.18	
			<i>For Epoxy Resin, Add</i>	110.45	
			<i>For Up To >10, Add</i>	906.51	
			<i>For >10 To 25, Add</i>	532.28	
			<i>For >25 To 50, Add</i>	386.31	
			<i>For >50 To 100, Add</i>	193.16	
			<i>For >500 To 1,000, Deduct</i>	-72.87	
			<i>For >1,000 To 2,000, Deduct</i>	-110.29	
			<i>For >2,000 To 5,000, Deduct</i>	-180.42	
			<i>For >5,000, Deduct</i>	-299.38	
33 01 30 72-0118	LF		19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,563.16	
			<i>For Vinlyester Resin, Add</i>	1,032.12	
			<i>For Epoxy Resin, Add</i>	121.64	
			<i>For Up To >10, Add</i>	1,003.33	
			<i>For >10 To 25, Add</i>	590.37	
			<i>For >25 To 50, Add</i>	427.94	
			<i>For >50 To 100, Add</i>	213.97	
			<i>For >500 To 1,000, Deduct</i>	-80.38	
			<i>For >1,000 To 2,000, Deduct</i>	-121.67	
			<i>For >2,000 To 5,000, Deduct</i>	-199.11	
			<i>For >5,000, Deduct</i>	-330.37	
33 01 30 72-0119	LF		19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,706.93	
			<i>For Vinlyester Resin, Add</i>	1,127.05	
			<i>For Epoxy Resin, Add</i>	132.83	
			<i>For Up To >10, Add</i>	1,095.62	
			<i>For >10 To 25, Add</i>	644.67	
			<i>For >25 To 50, Add</i>	467.30	
			<i>For >50 To 100, Add</i>	233.65	
			<i>For >500 To 1,000, Deduct</i>	-87.77	
			<i>For >1,000 To 2,000, Deduct</i>	-132.86	
			<i>For >2,000 To 5,000, Deduct</i>	-217.42	
			<i>For >5,000, Deduct</i>	-360.76	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	446.87	
For Vinylster Resin, Add	292.62	
For Epoxy Resin, Add	34.49	
For Up To >10, Add	295.54	
For >10 To 25, Add	176.61	
For >25 To 50, Add	126.87	
For >50 To 100, Add	63.43	
For >500 To 1,000, Deduct	-23.06	
For >1,000 To 2,000, Deduct	-34.96	
For >2,000 To 5,000, Deduct	-57.37	
For >5,000, Deduct	-95.14	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	522.33	
For Vinylster Resin, Add	343.74	
For Epoxy Resin, Add	40.51	
For Up To >10, Add	339.37	
For >10 To 25, Add	200.96	
For >25 To 50, Add	145.13	
For >50 To 100, Add	72.57	
For >500 To 1,000, Deduct	-26.90	
For >1,000 To 2,000, Deduct	-40.74	
For >2,000 To 5,000, Deduct	-66.75	
For >5,000, Deduct	-110.72	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	598.22	
For Vinylster Resin, Add	394.86	
For Epoxy Resin, Add	46.54	
For Up To >10, Add	384.46	
For >10 To 25, Add	226.37	
For >25 To 50, Add	164.03	
For >50 To 100, Add	82.01	
For >500 To 1,000, Deduct	-30.76	
For >1,000 To 2,000, Deduct	-46.57	
For >2,000 To 5,000, Deduct	-76.22	
For >5,000, Deduct	-126.47	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	673.97	
For Vinylster Resin, Add	445.97	
For Epoxy Resin, Add	52.56	
For Up To >10, Add	429.16	
For >10 To 25, Add	251.45	
For >25 To 50, Add	182.73	
For >50 To 100, Add	91.36	
For >500 To 1,000, Deduct	-34.62	
For >1,000 To 2,000, Deduct	-52.39	
For >2,000 To 5,000, Deduct	-85.67	
For >5,000, Deduct	-142.17	
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	751.21	
For Vinylster Resin, Add	497.09	
For Epoxy Resin, Add	58.59	
For Up To >10, Add	478.31	
For >10 To 25, Add	280.23	
For >25 To 50, Add	203.65	
For >50 To 100, Add	101.82	
For >500 To 1,000, Deduct	-38.59	
For >1,000 To 2,000, Deduct	-58.39	
For >2,000 To 5,000, Deduct	-95.49	
For >5,000, Deduct	-158.46	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	905.69	
For Vinylster Resin, Add	599.33	
For Epoxy Resin, Add	70.63	
For Up To >10, Add	576.62	
For >10 To 25, Add	337.82	
For >25 To 50, Add	245.50	
For >50 To 100, Add	122.75	
For >500 To 1,000, Deduct	-46.52	
For >1,000 To 2,000, Deduct	-70.40	
For >2,000 To 5,000, Deduct	-115.12	
For >5,000, Deduct	-191.04	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,060.19	
For Vinylster Resin, Add	701.56	
For Epoxy Resin, Add	82.68	
For Up To >10, Add	675.00	
For >10 To 25, Add	395.46	
For >25 To 50, Add	287.39	
For >50 To 100, Add	143.69	
For >500 To 1,000, Deduct	-54.46	
For >1,000 To 2,000, Deduct	-82.41	
For >2,000 To 5,000, Deduct	-134.76	
For >5,000, Deduct	-223.63	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0128	LF		21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,214.67	
			For Vinlyester Resin, Add	803.80	
			For Epoxy Resin, Add	94.73	
			For Up To >10, Add	773.31	
			For >10 To 25, Add	453.05	
			For >25 To 50, Add	329.24	
			For >50 To 100, Add	164.62	
			For >500 To 1,000, Deduct	-62.39	
			For >1,000 To 2,000, Deduct	-94.42	
			For >2,000 To 5,000, Deduct	-154.39	
			For >5,000, Deduct	-256.21	
33 01 30 72-0129	LF		21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,369.15	
			For Vinlyester Resin, Add	906.03	
			For Epoxy Resin, Add	106.78	
			For Up To >10, Add	871.63	
			For >10 To 25, Add	510.63	
			For >25 To 50, Add	371.10	
			For >50 To 100, Add	185.55	
			For >500 To 1,000, Deduct	-70.33	
			For >1,000 To 2,000, Deduct	-106.43	
			For >2,000 To 5,000, Deduct	-174.02	
			For >5,000, Deduct	-288.79	
33 01 30 72-0130	LF		21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,523.63	
			For Vinlyester Resin, Add	1,008.27	
			For Epoxy Resin, Add	118.83	
			For Up To >10, Add	969.94	
			For >10 To 25, Add	568.22	
			For >25 To 50, Add	412.95	
			For >50 To 100, Add	206.48	
			For >500 To 1,000, Deduct	-78.26	
			For >1,000 To 2,000, Deduct	-118.43	
			For >2,000 To 5,000, Deduct	-193.66	
			For >5,000, Deduct	-321.38	
33 01 30 72-0131	LF		21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,681.12	
			For Vinlyester Resin, Add	1,110.51	
			For Epoxy Resin, Add	130.88	
			For Up To >10, Add	1,077.26	
			For >10 To 25, Add	633.31	
			For >25 To 50, Add	459.31	
			For >50 To 100, Add	229.65	
			For >500 To 1,000, Deduct	-86.42	
			For >1,000 To 2,000, Deduct	-130.82	
			For >2,000 To 5,000, Deduct	-214.04	
			For >5,000, Deduct	-355.16	
33 01 30 72-0132	LF		21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,835.88	
			For Vinlyester Resin, Add	1,212.74	
			For Epoxy Resin, Add	142.93	
			For Up To >10, Add	1,176.42	
			For >10 To 25, Add	691.60	
			For >25 To 50, Add	501.58	
			For >50 To 100, Add	250.79	
			For >500 To 1,000, Deduct	-94.38	
			For >1,000 To 2,000, Deduct	-142.86	
			For >2,000 To 5,000, Deduct	-233.75	
			For >5,000, Deduct	-387.85	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 01 30 72-0134	LF		22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	476.01	
			For Vinlyester Resin, Add	312.45	
			For Epoxy Resin, Add	36.82	
			For Up To >10, Add	312.16	
			For >10 To 25, Add	185.74	
			For >25 To 50, Add	133.76	
			For >50 To 100, Add	66.88	
			For >500 To 1,000, Deduct	-24.54	
			For >1,000 To 2,000, Deduct	-37.18	
			For >2,000 To 5,000, Deduct	-60.98	
			For >5,000, Deduct	-101.13	
33 01 30 72-0135	LF		22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	556.70	
			For Vinlyester Resin, Add	367.21	
			For Epoxy Resin, Add	43.28	
			For Up To >10, Add	358.63	
			For >10 To 25, Add	211.42	
			For >25 To 50, Add	153.08	
			For >50 To 100, Add	76.54	
			For >500 To 1,000, Deduct	-28.64	
			For >1,000 To 2,000, Deduct	-43.36	
			For >2,000 To 5,000, Deduct	-70.98	
			For >5,000, Deduct	-117.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	638.20	
For Vinylster Resin, Add	421.99	
For Epoxy Resin, Add	49.73	
For Up To >10, Add	407.50	
For >10 To 25, Add	239.11	
For >25 To 50, Add	173.61	
For >50 To 100, Add	86.80	
For >500 To 1,000, Deduct	-32.79	
For >1,000 To 2,000, Deduct	-49.63	
For >2,000 To 5,000, Deduct	-81.18	
For >5,000, Deduct	-134.71	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	720.11	
For Vinylster Resin, Add	476.75	
For Epoxy Resin, Add	56.19	
For Up To >10, Add	457.66	
For >10 To 25, Add	267.87	
For >25 To 50, Add	194.77	
For >50 To 100, Add	97.39	
For >500 To 1,000, Deduct	-36.98	
For >1,000 To 2,000, Deduct	-55.96	
For >2,000 To 5,000, Deduct	-91.49	
For >5,000, Deduct	-151.83	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	802.84	
For Vinylster Resin, Add	531.52	
For Epoxy Resin, Add	62.64	
For Up To >10, Add	510.25	
For >10 To 25, Add	298.65	
For >25 To 50, Add	217.16	
For >50 To 100, Add	108.58	
For >500 To 1,000, Deduct	-41.23	
For >1,000 To 2,000, Deduct	-62.39	
For >2,000 To 5,000, Deduct	-102.00	
For >5,000, Deduct	-169.27	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	968.31	
For Vinylster Resin, Add	641.06	
For Epoxy Resin, Add	75.55	
For Up To >10, Add	615.43	
For >10 To 25, Add	360.23	
For >25 To 50, Add	261.93	
For >50 To 100, Add	130.96	
For >500 To 1,000, Deduct	-49.73	
For >1,000 To 2,000, Deduct	-75.25	
For >2,000 To 5,000, Deduct	-123.02	
For >5,000, Deduct	-204.16	
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,133.76	
For Vinylster Resin, Add	750.60	
For Epoxy Resin, Add	88.46	
For Up To >10, Add	720.58	
For >10 To 25, Add	421.77	
For >25 To 50, Add	306.68	
For >50 To 100, Add	153.34	
For >500 To 1,000, Deduct	-58.23	
For >1,000 To 2,000, Deduct	-88.11	
For >2,000 To 5,000, Deduct	-144.04	
For >5,000, Deduct	-239.05	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,299.23	
For Vinylster Resin, Add	860.13	
For Epoxy Resin, Add	101.37	
For Up To >10, Add	825.79	
For >10 To 25, Add	483.37	
For >25 To 50, Add	351.46	
For >50 To 100, Add	175.73	
For >500 To 1,000, Deduct	-66.72	
For >1,000 To 2,000, Deduct	-100.97	
For >2,000 To 5,000, Deduct	-165.07	
For >5,000, Deduct	-273.94	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,464.69	
For Vinylster Resin, Add	969.68	
For Epoxy Resin, Add	114.28	
For Up To >10, Add	930.95	
For >10 To 25, Add	544.91	
For >25 To 50, Add	396.21	
For >50 To 100, Add	198.11	
For >500 To 1,000, Deduct	-75.22	
For >1,000 To 2,000, Deduct	-113.82	
For >2,000 To 5,000, Deduct	-186.09	
For >5,000, Deduct	-308.83	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,630.16	
For Vinlyester Resin, Add	1,079.21	
For Epoxy Resin, Add	127.19	
For Up To >10, Add	1,036.16	
For >10 To 25, Add	606.51	
For >25 To 50, Add	440.99	
For >50 To 100, Add	220.50	
For >500 To 1,000, Deduct	-83.72	
For >1,000 To 2,000, Deduct	-126.68	
For >2,000 To 5,000, Deduct	-207.12	
For >5,000, Deduct	-343.72	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,798.75	
For Vinlyester Resin, Add	1,188.75	
For Epoxy Resin, Add	140.10	
For Up To >10, Add	1,150.70	
For >10 To 25, Add	675.88	
For >25 To 50, Add	490.44	
For >50 To 100, Add	245.22	
For >500 To 1,000, Deduct	-92.45	
For >1,000 To 2,000, Deduct	-139.93	
For >2,000 To 5,000, Deduct	-228.92	
For >5,000, Deduct	-379.86	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,964.48	
For Vinlyester Resin, Add	1,298.29	
For Epoxy Resin, Add	153.01	
For Up To >10, Add	1,256.69	
For >10 To 25, Add	738.13	
For >25 To 50, Add	535.61	
For >50 To 100, Add	267.81	
For >500 To 1,000, Deduct	-100.97	
For >1,000 To 2,000, Deduct	-152.83	
For >2,000 To 5,000, Deduct	-250.01	
For >5,000, Deduct	-414.85	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	504.79	
For Vinlyester Resin, Add	332.12	
For Epoxy Resin, Add	39.14	
For Up To >10, Add	328.22	
For >10 To 25, Add	194.44	
For >25 To 50, Add	140.39	
For >50 To 100, Add	70.19	
For >500 To 1,000, Deduct	-26.00	
For >1,000 To 2,000, Deduct	-39.38	
For >2,000 To 5,000, Deduct	-64.52	
For >5,000, Deduct	-107.02	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	590.71	
For Vinlyester Resin, Add	390.54	
For Epoxy Resin, Add	46.03	
For Up To >10, Add	377.33	
For >10 To 25, Add	221.46	
For >25 To 50, Add	160.77	
For >50 To 100, Add	80.38	
For >500 To 1,000, Deduct	-30.36	
For >1,000 To 2,000, Deduct	-45.94	
For >2,000 To 5,000, Deduct	-75.15	
For >5,000, Deduct	-124.70	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	677.84	
For Vinlyester Resin, Add	448.97	
For Epoxy Resin, Add	52.91	
For Up To >10, Add	430.07	
For >10 To 25, Add	251.50	
For >25 To 50, Add	182.97	
For >50 To 100, Add	91.48	
For >500 To 1,000, Deduct	-34.80	
For >1,000 To 2,000, Deduct	-52.66	
For >2,000 To 5,000, Deduct	-86.08	
For >5,000, Deduct	-142.86	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	766.05	
For Vinlyester Resin, Add	507.38	
For Epoxy Resin, Add	59.80	
For Up To >10, Add	486.08	
For >10 To 25, Add	284.26	
For >25 To 50, Add	206.80	
For >50 To 100, Add	103.40	
For >500 To 1,000, Deduct	-39.33	
For >1,000 To 2,000, Deduct	-59.51	
For >2,000 To 5,000, Deduct	-97.28	
For >5,000, Deduct	-161.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	854.27	
For Vinylster Resin, Add	565.80	
For Epoxy Resin, Add	66.68	
For Up To >10, Add	542.09	
For >10 To 25, Add	317.02	
For >25 To 50, Add	230.63	
For >50 To 100, Add	115.31	
For >500 To 1,000, Deduct	-43.86	
For >1,000 To 2,000, Deduct	-66.37	
For >2,000 To 5,000, Deduct	-108.49	
For >5,000, Deduct	-180.05	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,030.71	
For Vinylster Resin, Add	682.65	
For Epoxy Resin, Add	80.45	
For Up To >10, Add	654.11	
For >10 To 25, Add	382.55	
For >25 To 50, Add	278.29	
For >50 To 100, Add	139.15	
For >500 To 1,000, Deduct	-52.92	
For >1,000 To 2,000, Deduct	-80.08	
For >2,000 To 5,000, Deduct	-130.90	
For >5,000, Deduct	-217.24	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,254.01	
For Vinylster Resin, Add	832.39	
For Epoxy Resin, Add	98.10	
For Up To >10, Add	789.21	
For >10 To 25, Add	459.48	
For >25 To 50, Add	335.15	
For >50 To 100, Add	167.57	
For >500 To 1,000, Deduct	-64.32	
For >1,000 To 2,000, Deduct	-97.29	
For >2,000 To 5,000, Deduct	-158.92	
For >5,000, Deduct	-263.78	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,383.45	
For Vinylster Resin, Add	916.33	
For Epoxy Resin, Add	108.00	
For Up To >10, Add	877.75	
For >10 To 25, Add	513.29	
For >25 To 50, Add	373.42	
For >50 To 100, Add	186.71	
For >500 To 1,000, Deduct	-71.03	
For >1,000 To 2,000, Deduct	-107.48	
For >2,000 To 5,000, Deduct	-175.69	
For >5,000, Deduct	-291.57	
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,559.89	
For Vinylster Resin, Add	1,033.17	
For Epoxy Resin, Add	121.77	
For Up To >10, Add	989.77	
For >10 To 25, Add	578.82	
For >25 To 50, Add	421.09	
For >50 To 100, Add	210.54	
For >500 To 1,000, Deduct	-80.09	
For >1,000 To 2,000, Deduct	-121.19	
For >2,000 To 5,000, Deduct	-198.10	
For >5,000, Deduct	-328.76	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,736.33	
For Vinylster Resin, Add	1,150.01	
For Epoxy Resin, Add	135.54	
For Up To >10, Add	1,101.82	
For >10 To 25, Add	644.37	
For >25 To 50, Add	468.76	
For >50 To 100, Add	234.38	
For >500 To 1,000, Deduct	-89.15	
For >1,000 To 2,000, Deduct	-134.90	
For >2,000 To 5,000, Deduct	-220.51	
For >5,000, Deduct	-365.96	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,916.03	
For Vinylster Resin, Add	1,266.85	
For Epoxy Resin, Add	149.31	
For Up To >10, Add	1,223.62	
For >10 To 25, Add	718.05	
For >25 To 50, Add	521.32	
For >50 To 100, Add	260.66	
For >500 To 1,000, Deduct	-98.46	
For >1,000 To 2,000, Deduct	-149.01	
For >2,000 To 5,000, Deduct	-243.73	
For >5,000, Deduct	-404.45	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

33 01 30 72-0158	LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,092.74	
	For Vinlyester Resin, Add	1,383.69	
	For Epoxy Resin, Add	163.08	
	For Up To >10, Add	1,336.47	
	For >10 To 25, Add	784.28	
	For >25 To 50, Add	569.40	
	For >50 To 100, Add	284.70	
	For >500 To 1,000, Deduct	-107.54	
	For >1,000 To 2,000, Deduct	-162.76	
	For >2,000 To 5,000, Deduct	-266.21	
	For >5,000, Deduct	-441.76	
33 01 30 72-0159	LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,269.46	
	For Vinlyester Resin, Add	1,500.53	
	For Epoxy Resin, Add	176.85	
	For Up To >10, Add	1,449.33	
	For >10 To 25, Add	850.51	
	For >25 To 50, Add	617.48	
	For >50 To 100, Add	308.74	
	For >500 To 1,000, Deduct	-116.62	
	For >1,000 To 2,000, Deduct	-176.50	
	For >2,000 To 5,000, Deduct	-288.69	
	For >5,000, Deduct	-479.06	
33 01 30 72-0160	LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,446.16	
	For Vinlyester Resin, Add	1,617.38	
	For Epoxy Resin, Add	190.62	
	For Up To >10, Add	1,562.13	
	For >10 To 25, Add	916.69	
	For >25 To 50, Add	665.54	
	For >50 To 100, Add	332.77	
	For >500 To 1,000, Deduct	-125.70	
	For >1,000 To 2,000, Deduct	-190.24	
	For >2,000 To 5,000, Deduct	-311.17	
	For >5,000, Deduct	-516.36	
33 01 30 72-0161	25.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0162	LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	624.91	
	For Vinlyester Resin, Add	413.73	
	For Epoxy Resin, Add	48.76	
	For Up To >10, Add	397.13	
	For >10 To 25, Add	232.44	
	For >25 To 50, Add	169.01	
	For >50 To 100, Add	84.51	
	For >500 To 1,000, Deduct	-32.09	
	For >1,000 To 2,000, Deduct	-48.56	
	For >2,000 To 5,000, Deduct	-79.39	
	For >5,000, Deduct	-131.76	
33 01 30 72-0163	LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	718.07	
	For Vinlyester Resin, Add	475.80	
	For Epoxy Resin, Add	56.08	
	For Up To >10, Add	454.94	
	For >10 To 25, Add	265.83	
	For >25 To 50, Add	193.48	
	For >50 To 100, Add	96.74	
	For >500 To 1,000, Deduct	-36.86	
	For >1,000 To 2,000, Deduct	-55.77	
	For >2,000 To 5,000, Deduct	-91.16	
	For >5,000, Deduct	-151.29	
33 01 30 72-0164	LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	811.79	
	For Vinlyester Resin, Add	537.87	
	For Epoxy Resin, Add	63.39	
	For Up To >10, Add	514.40	
	For >10 To 25, Add	300.60	
	For >25 To 50, Add	218.78	
	For >50 To 100, Add	109.39	
	For >500 To 1,000, Deduct	-41.67	
	For >1,000 To 2,000, Deduct	-63.05	
	For >2,000 To 5,000, Deduct	-103.06	
	For >5,000, Deduct	-171.04	
33 01 30 72-0165	LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	905.36	
	For Vinlyester Resin, Add	599.95	
	For Epoxy Resin, Add	70.71	
	For Up To >10, Add	573.41	
	For >10 To 25, Add	334.99	
	For >25 To 50, Add	243.85	
	For >50 To 100, Add	121.92	
	For >500 To 1,000, Deduct	-46.48	
	For >1,000 To 2,000, Deduct	-70.32	
	For >2,000 To 5,000, Deduct	-114.92	
	For >5,000, Deduct	-190.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,092.77	
For Vinylster Resin, Add	724.09	
For Epoxy Resin, Add	85.34	
For Up To >10, Add	692.29	
For >10 To 25, Add	404.50	
For >25 To 50, Add	294.42	
For >50 To 100, Add	147.21	
For >500 To 1,000, Deduct	-56.10	
For >1,000 To 2,000, Deduct	-84.88	
For >2,000 To 5,000, Deduct	-138.72	
For >5,000, Deduct	-230.23	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,280.05	
For Vinylster Resin, Add	848.23	
For Epoxy Resin, Add	99.97	
For Up To >10, Add	810.75	
For >10 To 25, Add	473.67	
For >25 To 50, Add	344.79	
For >50 To 100, Add	172.39	
For >500 To 1,000, Deduct	-65.71	
For >1,000 To 2,000, Deduct	-99.42	
For >2,000 To 5,000, Deduct	-162.48	
For >5,000, Deduct	-269.67	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,467.47	
For Vinylster Resin, Add	972.38	
For Epoxy Resin, Add	114.60	
For Up To >10, Add	929.64	
For >10 To 25, Add	543.18	
For >25 To 50, Add	395.36	
For >50 To 100, Add	197.68	
For >500 To 1,000, Deduct	-75.33	
For >1,000 To 2,000, Deduct	-113.98	
For >2,000 To 5,000, Deduct	-186.28	
For >5,000, Deduct	-309.17	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,654.75	
For Vinylster Resin, Add	1,096.52	
For Epoxy Resin, Add	129.23	
For Up To >10, Add	1,048.10	
For >10 To 25, Add	612.34	
For >25 To 50, Add	445.73	
For >50 To 100, Add	222.86	
For >500 To 1,000, Deduct	-84.94	
For >1,000 To 2,000, Deduct	-128.52	
For >2,000 To 5,000, Deduct	-210.05	
For >5,000, Deduct	-348.61	
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,842.16	
For Vinylster Resin, Add	1,220.67	
For Epoxy Resin, Add	143.86	
For Up To >10, Add	1,166.96	
For >10 To 25, Add	681.83	
For >25 To 50, Add	496.29	
For >50 To 100, Add	248.14	
For >500 To 1,000, Deduct	-94.57	
For >1,000 To 2,000, Deduct	-143.08	
For >2,000 To 5,000, Deduct	-233.84	
For >5,000, Deduct	-388.10	
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,033.92	
For Vinylster Resin, Add	1,344.81	
For Epoxy Resin, Add	158.49	
For Up To >10, Add	1,298.89	
For >10 To 25, Add	762.21	
For >25 To 50, Add	553.39	
For >50 To 100, Add	276.69	
For >500 To 1,000, Deduct	-104.52	
For >1,000 To 2,000, Deduct	-158.18	
For >2,000 To 5,000, Deduct	-258.73	
For >5,000, Deduct	-429.34	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,221.76	
For Vinylster Resin, Add	1,468.96	
For Epoxy Resin, Add	173.13	
For Up To >10, Add	1,419.01	
For >10 To 25, Add	832.75	
For >25 To 50, Add	604.58	
For >50 To 100, Add	302.29	
For >500 To 1,000, Deduct	-114.17	
For >1,000 To 2,000, Deduct	-172.79	
For >2,000 To 5,000, Deduct	-282.63	
For >5,000, Deduct	-469.00	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0173	LF	25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,409.44	
			For Vinlyester Resin, Add	1,593.10	
			For Epoxy Resin, Add	187.76	
			For Up To >10, Add	1,538.70	
			For >10 To 25, Add	902.94	
			For >25 To 50, Add	655.56	
			For >50 To 100, Add	327.78	
			For >500 To 1,000, Deduct	-123.81	
			For >1,000 To 2,000, Deduct	-187.39	
			For >2,000 To 5,000, Deduct	-306.50	
			For >5,000, Deduct	-508.61	
33 01 30	72-0174	LF	25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,597.27	
			For Vinlyester Resin, Add	1,717.24	
			For Epoxy Resin, Add	202.39	
			For Up To >10, Add	1,658.81	
			For >10 To 25, Add	973.48	
			For >25 To 50, Add	706.75	
			For >50 To 100, Add	353.37	
			For >500 To 1,000, Deduct	-133.47	
			For >1,000 To 2,000, Deduct	-202.00	
			For >2,000 To 5,000, Deduct	-330.40	
			For >5,000, Deduct	-548.27	
33 01 30	72-0175		27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30	72-0176	LF	27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	658.78	
			For Vinlyester Resin, Add	436.77	
			For Epoxy Resin, Add	51.48	
			For Up To >10, Add	416.44	
			For >10 To 25, Add	243.04	
			For >25 To 50, Add	177.02	
			For >50 To 100, Add	88.51	
			For >500 To 1,000, Deduct	-33.81	
			For >1,000 To 2,000, Deduct	-51.15	
			For >2,000 To 5,000, Deduct	-83.58	
			For >5,000, Deduct	-138.72	
33 01 30	72-0177	LF	27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	757.98	
			For Vinlyester Resin, Add	502.50	
			For Epoxy Resin, Add	59.22	
			For Up To >10, Add	479.32	
			For >10 To 25, Add	279.79	
			For >25 To 50, Add	203.77	
			For >50 To 100, Add	101.88	
			For >500 To 1,000, Deduct	-38.90	
			For >1,000 To 2,000, Deduct	-58.86	
			For >2,000 To 5,000, Deduct	-96.17	
			For >5,000, Deduct	-159.62	
33 01 30	72-0178	LF	27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	857.18	
			For Vinlyester Resin, Add	568.23	
			For Epoxy Resin, Add	66.97	
			For Up To >10, Add	542.17	
			For >10 To 25, Add	316.51	
			For >25 To 50, Add	230.50	
			For >50 To 100, Add	115.25	
			For >500 To 1,000, Deduct	-43.99	
			For >1,000 To 2,000, Deduct	-66.56	
			For >2,000 To 5,000, Deduct	-108.77	
			For >5,000, Deduct	-180.52	
33 01 30	72-0179	LF	27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	956.25	
			For Vinlyester Resin, Add	633.95	
			For Epoxy Resin, Add	74.72	
			For Up To >10, Add	604.65	
			For >10 To 25, Add	352.94	
			For >25 To 50, Add	257.04	
			For >50 To 100, Add	128.52	
			For >500 To 1,000, Deduct	-49.08	
			For >1,000 To 2,000, Deduct	-74.25	
			For >2,000 To 5,000, Deduct	-121.33	
			For >5,000, Deduct	-201.37	
33 01 30	72-0180	LF	27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,154.49	
			For Vinlyester Resin, Add	765.39	
			For Epoxy Resin, Add	90.21	
			For Up To >10, Add	729.95	
			For >10 To 25, Add	426.05	
			For >25 To 50, Add	310.30	
			For >50 To 100, Add	155.15	
			For >500 To 1,000, Deduct	-59.25	
			For >1,000 To 2,000, Deduct	-89.64	
			For >2,000 To 5,000, Deduct	-146.48	
			For >5,000, Deduct	-243.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,352.88	
For Vinyl Ester Resin, Add	896.83	
For Epoxy Resin, Add	105.70	
For Up To >10, Add	855.67	
For >10 To 25, Add	499.52	
For >25 To 50, Add	363.77	
For >50 To 100, Add	181.89	
For >500 To 1,000, Deduct	-69.44	
For >1,000 To 2,000, Deduct	-105.05	
For >2,000 To 5,000, Deduct	-171.67	
For >5,000, Deduct	-284.91	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,551.15	
For Vinyl Ester Resin, Add	1,028.29	
For Epoxy Resin, Add	121.19	
For Up To >10, Add	981.00	
For >10 To 25, Add	572.67	
For >25 To 50, Add	417.05	
For >50 To 100, Add	208.53	
For >500 To 1,000, Deduct	-79.61	
For >1,000 To 2,000, Deduct	-120.44	
For >2,000 To 5,000, Deduct	-196.82	
For >5,000, Deduct	-326.66	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,749.39	
For Vinyl Ester Resin, Add	1,159.73	
For Epoxy Resin, Add	136.68	
For Up To >10, Add	1,106.30	
For >10 To 25, Add	645.79	
For >25 To 50, Add	470.31	
For >50 To 100, Add	235.16	
For >500 To 1,000, Deduct	-89.79	
For >1,000 To 2,000, Deduct	-135.84	
For >2,000 To 5,000, Deduct	-221.97	
For >5,000, Deduct	-368.41	
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,947.65	
For Vinyl Ester Resin, Add	1,291.17	
For Epoxy Resin, Add	152.17	
For Up To >10, Add	1,231.63	
For >10 To 25, Add	718.93	
For >25 To 50, Add	523.59	
For >50 To 100, Add	261.79	
For >500 To 1,000, Deduct	-99.96	
For >1,000 To 2,000, Deduct	-151.23	
For >2,000 To 5,000, Deduct	-247.12	
For >5,000, Deduct	-410.15	
33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,151.62	
For Vinyl Ester Resin, Add	1,422.62	
For Epoxy Resin, Add	167.67	
For Up To >10, Add	1,374.06	
For >10 To 25, Add	806.33	
For >25 To 50, Add	585.41	
For >50 To 100, Add	292.71	
For >500 To 1,000, Deduct	-110.56	
For >1,000 To 2,000, Deduct	-167.34	
For >2,000 To 5,000, Deduct	-273.70	
For >5,000, Deduct	-454.18	
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,350.42	
For Vinyl Ester Resin, Add	1,554.07	
For Epoxy Resin, Add	183.16	
For Up To >10, Add	1,501.01	
For >10 To 25, Add	880.83	
For >25 To 50, Add	639.50	
For >50 To 100, Add	319.75	
For >500 To 1,000, Deduct	-120.78	
For >1,000 To 2,000, Deduct	-182.80	
For >2,000 To 5,000, Deduct	-298.99	
For >5,000, Deduct	-496.15	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,549.22	
For Vinyl Ester Resin, Add	1,685.52	
For Epoxy Resin, Add	198.65	
For Up To >10, Add	1,627.96	
For >10 To 25, Add	955.32	
For >25 To 50, Add	693.59	
For >50 To 100, Add	346.79	
For >500 To 1,000, Deduct	-130.99	
For >1,000 To 2,000, Deduct	-198.26	
For >2,000 To 5,000, Deduct	-324.28	
For >5,000, Deduct	-538.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,748.02	
For Vinlyester Resin, Add	1,816.96	
For Epoxy Resin, Add	214.14	
For Up To >10, Add	1,754.91	
For >10 To 25, Add	1,029.82	
For >25 To 50, Add	747.67	
For >50 To 100, Add	373.84	
For >500 To 1,000, Deduct	-141.21	
For >1,000 To 2,000, Deduct	-213.72	
For >2,000 To 5,000, Deduct	-349.57	
For >5,000, Deduct	-580.08	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	797.41	
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	797.41	
For Vinlyester Resin, Add	529.05	
For Epoxy Resin, Add	62.35	
For Up To >10, Add	502.78	
For >10 To 25, Add	293.02	
For >25 To 50, Add	213.60	
For >50 To 100, Add	106.80	
For >500 To 1,000, Deduct	-40.91	
For >1,000 To 2,000, Deduct	-61.89	
For >2,000 To 5,000, Deduct	-101.10	
For >5,000, Deduct	-167.81	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	902.10	
For Vinlyester Resin, Add	598.42	
For Epoxy Resin, Add	70.53	
For Up To >10, Add	569.08	
For >10 To 25, Add	331.75	
For >25 To 50, Add	241.79	
For >50 To 100, Add	120.90	
For >500 To 1,000, Deduct	-46.29	
For >1,000 To 2,000, Deduct	-70.02	
For >2,000 To 5,000, Deduct	-114.39	
For >5,000, Deduct	-189.86	
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,006.63	
For Vinlyester Resin, Add	667.79	
For Epoxy Resin, Add	78.70	
For Up To >10, Add	634.92	
For >10 To 25, Add	370.10	
For >25 To 50, Add	269.76	
For >50 To 100, Add	134.88	
For >500 To 1,000, Deduct	-51.65	
For >1,000 To 2,000, Deduct	-78.13	
For >2,000 To 5,000, Deduct	-127.64	
For >5,000, Deduct	-211.85	
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,274.32	
For Vinlyester Resin, Add	847.55	
For Epoxy Resin, Add	99.89	
For Up To >10, Add	795.99	
For >10 To 25, Add	461.52	
For >25 To 50, Add	337.45	
For >50 To 100, Add	168.73	
For >500 To 1,000, Deduct	-65.30	
For >1,000 To 2,000, Deduct	-98.75	
For >2,000 To 5,000, Deduct	-161.18	
For >5,000, Deduct	-267.57	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,424.97	
For Vinlyester Resin, Add	945.29	
For Epoxy Resin, Add	111.41	
For Up To >10, Add	898.86	
For >10 To 25, Add	523.98	
For >25 To 50, Add	381.91	
For >50 To 100, Add	190.95	
For >500 To 1,000, Deduct	-73.11	
For >1,000 To 2,000, Deduct	-110.60	
For >2,000 To 5,000, Deduct	-180.69	
For >5,000, Deduct	-299.90	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,634.07	
For Vinlyester Resin, Add	1,084.05	
For Epoxy Resin, Add	127.76	
For Up To >10, Add	1,030.61	
For >10 To 25, Add	600.74	
For >25 To 50, Add	437.87	
For >50 To 100, Add	218.94	
For >500 To 1,000, Deduct	-83.84	
For >1,000 To 2,000, Deduct	-126.83	
For >2,000 To 5,000, Deduct	-207.19	
For >5,000, Deduct	-343.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,843.17	
For Vinylster Resin, Add	1,222.80	
For Epoxy Resin, Add	144.12	
For Up To >10, Add	1,162.39	
For >10 To 25, Add	677.51	
For >25 To 50, Add	493.85	
For >50 To 100, Add	246.93	
For >500 To 1,000, Deduct	-94.57	
For >1,000 To 2,000, Deduct	-143.05	
For >2,000 To 5,000, Deduct	-233.70	
For >5,000, Deduct	-387.90	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,052.26	
For Vinylster Resin, Add	1,361.54	
For Epoxy Resin, Add	160.47	
For Up To >10, Add	1,294.13	
For >10 To 25, Add	754.27	
For >25 To 50, Add	549.81	
For >50 To 100, Add	274.91	
For >500 To 1,000, Deduct	-105.29	
For >1,000 To 2,000, Deduct	-159.28	
For >2,000 To 5,000, Deduct	-260.21	
For >5,000, Deduct	-431.89	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,267.33	
For Vinylster Resin, Add	1,500.29	
For Epoxy Resin, Add	176.82	
For Up To >10, Add	1,443.82	
For >10 To 25, Add	845.97	
For >25 To 50, Add	614.74	
For >50 To 100, Add	307.37	
For >500 To 1,000, Deduct	-116.47	
For >1,000 To 2,000, Deduct	-176.25	
For >2,000 To 5,000, Deduct	-288.21	
For >5,000, Deduct	-478.28	
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,476.97	
For Vinylster Resin, Add	1,639.04	
For Epoxy Resin, Add	193.17	
For Up To >10, Add	1,577.21	
For >10 To 25, Add	924.10	
For >25 To 50, Add	671.53	
For >50 To 100, Add	335.77	
For >500 To 1,000, Deduct	-127.24	
For >1,000 To 2,000, Deduct	-192.55	
For >2,000 To 5,000, Deduct	-314.85	
For >5,000, Deduct	-522.49	
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,866.75	
For Vinylster Resin, Add	1,777.79	
For Epoxy Resin, Add	209.53	
For Up To >10, Add	1,711.00	
For >10 To 25, Add	1,002.55	
For >25 To 50, Add	728.52	
For >50 To 100, Add	364.26	
For >500 To 1,000, Deduct	-138.01	
For >1,000 To 2,000, Deduct	-208.86	
For >2,000 To 5,000, Deduct	-341.53	
For >5,000, Deduct	-566.76	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,896.39	
For Vinylster Resin, Add	1,916.54	
For Epoxy Resin, Add	225.88	
For Up To >10, Add	1,844.40	
For >10 To 25, Add	1,080.68	
For >25 To 50, Add	785.30	
For >50 To 100, Add	392.65	
For >500 To 1,000, Deduct	-148.78	
For >1,000 To 2,000, Deduct	-225.15	
For >2,000 To 5,000, Deduct	-368.17	
For >5,000, Deduct	-610.97	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>	836.64	
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	836.64	
For Vinylster Resin, Add	555.46	
For Epoxy Resin, Add	65.46	
For Up To >10, Add	526.15	
For >10 To 25, Add	306.20	
For >25 To 50, Add	223.40	
For >50 To 100, Add	111.70	
For >500 To 1,000, Deduct	-42.91	
For >1,000 To 2,000, Deduct	-64.90	
For >2,000 To 5,000, Deduct	-106.00	
For >5,000, Deduct	-175.95	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0204	LF	30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	946.67	
			For Vinlyester Resin, Add	628.48	
			For Epoxy Resin, Add	74.07	
			For Up To >10, Add	595.44	
			For >10 To 25, Add	346.56	
			For >25 To 50, Add	252.83	
			For >50 To 100, Add	126.41	
			For >500 To 1,000, Deduct	-48.55	
			For >1,000 To 2,000, Deduct	-73.44	
			For >2,000 To 5,000, Deduct	-119.95	
			For >5,000, Deduct	-199.10	
33 01 30	72-0205	LF	30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,056.70	
			For Vinlyester Resin, Add	701.51	
			For Epoxy Resin, Add	82.68	
			For Up To >10, Add	664.73	
			For >10 To 25, Add	386.91	
			For >25 To 50, Add	282.26	
			For >50 To 100, Add	141.13	
			For >500 To 1,000, Deduct	-54.20	
			For >1,000 To 2,000, Deduct	-81.98	
			For >2,000 To 5,000, Deduct	-133.90	
			For >5,000, Deduct	-222.25	
33 01 30	72-0206	LF	30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,276.63	
			For Vinlyester Resin, Add	847.55	
			For Epoxy Resin, Add	99.89	
			For Up To >10, Add	802.92	
			For >10 To 25, Add	467.30	
			For >25 To 50, Add	340.92	
			For >50 To 100, Add	170.46	
			For >500 To 1,000, Deduct	-65.48	
			For >1,000 To 2,000, Deduct	-99.04	
			For >2,000 To 5,000, Deduct	-161.75	
			For >5,000, Deduct	-268.49	
33 01 30	72-0207	LF	30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,496.71	
			For Vinlyester Resin, Add	993.61	
			For Epoxy Resin, Add	117.10	
			For Up To >10, Add	941.53	
			For >10 To 25, Add	548.04	
			For >25 To 50, Add	399.79	
			For >50 To 100, Add	199.90	
			For >500 To 1,000, Deduct	-76.77	
			For >1,000 To 2,000, Deduct	-116.12	
			For >2,000 To 5,000, Deduct	-189.65	
			For >5,000, Deduct	-314.80	
33 01 30	72-0208	LF	30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,716.64	
			For Vinlyester Resin, Add	1,139.66	
			For Epoxy Resin, Add	134.32	
			For Up To >10, Add	1,079.72	
			For >10 To 25, Add	628.42	
			For >25 To 50, Add	458.46	
			For >50 To 100, Add	229.23	
			For >500 To 1,000, Deduct	-88.05	
			For >1,000 To 2,000, Deduct	-133.18	
			For >2,000 To 5,000, Deduct	-217.51	
			For >5,000, Deduct	-361.04	
33 01 30	72-0209	LF	30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,936.72	
			For Vinlyester Resin, Add	1,285.71	
			For Epoxy Resin, Add	151.53	
			For Up To >10, Add	1,218.34	
			For >10 To 25, Add	709.16	
			For >25 To 50, Add	517.33	
			For >50 To 100, Add	258.67	
			For >500 To 1,000, Deduct	-99.34	
			For >1,000 To 2,000, Deduct	-150.25	
			For >2,000 To 5,000, Deduct	-245.41	
			For >5,000, Deduct	-407.34	
33 01 30	72-0210	LF	30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,156.66	
			For Vinlyester Resin, Add	1,431.77	
			For Epoxy Resin, Add	168.74	
			For Up To >10, Add	1,356.53	
			For >10 To 25, Add	789.55	
			For >25 To 50, Add	576.00	
			For >50 To 100, Add	288.00	
			For >500 To 1,000, Deduct	-110.62	
			For >1,000 To 2,000, Deduct	-167.31	
			For >2,000 To 5,000, Deduct	-273.27	
			For >5,000, Deduct	-453.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,382.84	
For Vinylster Resin, Add	1,577.81	
For Epoxy Resin, Add	185.96	
For Up To >10, Add	1,513.47	
For >10 To 25, Add	885.56	
For >25 To 50, Add	644.03	
For >50 To 100, Add	322.02	
For >500 To 1,000, Deduct	-122.36	
For >1,000 To 2,000, Deduct	-185.15	
For >2,000 To 5,000, Deduct	-302.69	
For >5,000, Deduct	-502.33	
33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,603.33	
For Vinylster Resin, Add	1,723.87	
For Epoxy Resin, Add	203.17	
For Up To >10, Add	1,653.32	
For >10 To 25, Add	967.32	
For >25 To 50, Add	703.52	
For >50 To 100, Add	351.76	
For >500 To 1,000, Deduct	-133.68	
For >1,000 To 2,000, Deduct	-202.28	
For >2,000 To 5,000, Deduct	-330.69	
For >5,000, Deduct	-548.80	
33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,823.94	
For Vinylster Resin, Add	1,869.92	
For Epoxy Resin, Add	220.38	
For Up To >10, Add	1,793.55	
For >10 To 25, Add	1,049.40	
For >25 To 50, Add	763.21	
For >50 To 100, Add	381.60	
For >500 To 1,000, Deduct	-145.01	
For >1,000 To 2,000, Deduct	-219.43	
For >2,000 To 5,000, Deduct	-358.71	
For >5,000, Deduct	-595.31	
33 01 30 72-0214 LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,044.55	
For Vinylster Resin, Add	2,015.97	
For Epoxy Resin, Add	237.60	
For Up To >10, Add	1,933.78	
For >10 To 25, Add	1,131.49	
For >25 To 50, Add	822.89	
For >50 To 100, Add	411.45	
For >500 To 1,000, Deduct	-156.34	
For >1,000 To 2,000, Deduct	-236.57	
For >2,000 To 5,000, Deduct	-386.74	
For >5,000, Deduct	-641.83	
33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,265.04	
For Vinylster Resin, Add	2,162.02	
For Epoxy Resin, Add	254.81	
For Up To >10, Add	2,073.62	
For >10 To 25, Add	1,213.25	
For >25 To 50, Add	882.38	
For >50 To 100, Add	441.19	
For >500 To 1,000, Deduct	-167.66	
For >1,000 To 2,000, Deduct	-253.70	
For >2,000 To 5,000, Deduct	-414.74	
For >5,000, Deduct	-688.30	
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,485.64	
For Vinylster Resin, Add	2,308.07	
For Epoxy Resin, Add	272.02	
For Up To >10, Add	2,213.82	
For >10 To 25, Add	1,295.31	
For >25 To 50, Add	942.05	
For >50 To 100, Add	471.02	
For >500 To 1,000, Deduct	-178.99	
For >1,000 To 2,000, Deduct	-270.84	
For >2,000 To 5,000, Deduct	-442.77	
For >5,000, Deduct	-734.81	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	875.65	
For Vinylster Resin, Add	581.72	
For Epoxy Resin, Add	68.56	
For Up To >10, Add	549.38	
For >10 To 25, Add	319.31	
For >25 To 50, Add	233.14	
For >50 To 100, Add	116.57	
For >500 To 1,000, Deduct	-44.90	
For >1,000 To 2,000, Deduct	-67.90	
For >2,000 To 5,000, Deduct	-110.88	
For >5,000, Deduct	-184.05	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

33 01 30 72-0219	LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	991.03	
	For Vinlyester Resin, Add	658.40	
	For Epoxy Resin, Add	77.60	
	For Up To >10, Add	621.67	
	For >10 To 25, Add	361.29	
	For >25 To 50, Add	263.80	
	For >50 To 100, Add	131.90	
	For >500 To 1,000, Deduct	-50.81	
	For >1,000 To 2,000, Deduct	-76.85	
	For >2,000 To 5,000, Deduct	-125.48	
	For >5,000, Deduct	-208.30	
33 01 30 72-0220	LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,106.42	
	For Vinlyester Resin, Add	735.07	
	For Epoxy Resin, Add	86.63	
	For Up To >10, Add	694.01	
	For >10 To 25, Add	403.33	
	For >25 To 50, Add	294.50	
	For >50 To 100, Add	147.25	
	For >500 To 1,000, Deduct	-56.73	
	For >1,000 To 2,000, Deduct	-85.80	
	For >2,000 To 5,000, Deduct	-140.09	
	For >5,000, Deduct	-232.55	
33 01 30 72-0221	LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.33	
	For Vinlyester Resin, Add	888.43	
	For Epoxy Resin, Add	104.71	
	For Up To >10, Add	839.04	
	For >10 To 25, Add	487.67	
	For >25 To 50, Add	356.06	
	For >50 To 100, Add	178.03	
	For >500 To 1,000, Deduct	-68.57	
	For >1,000 To 2,000, Deduct	-103.71	
	For >2,000 To 5,000, Deduct	-169.34	
	For >5,000, Deduct	-281.10	
33 01 30 72-0222	LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,568.11	
	For Vinlyester Resin, Add	1,041.78	
	For Epoxy Resin, Add	122.78	
	For Up To >10, Add	983.68	
	For >10 To 25, Add	571.69	
	For >25 To 50, Add	417.43	
	For >50 To 100, Add	208.71	
	For >500 To 1,000, Deduct	-80.40	
	For >1,000 To 2,000, Deduct	-121.60	
	For >2,000 To 5,000, Deduct	-198.55	
	For >5,000, Deduct	-329.59	
33 01 30 72-0223	LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,799.03	
	For Vinlyester Resin, Add	1,195.14	
	For Epoxy Resin, Add	140.86	
	For Up To >10, Add	1,128.74	
	For >10 To 25, Add	656.06	
	For >25 To 50, Add	479.00	
	For >50 To 100, Add	239.50	
	For >500 To 1,000, Deduct	-92.24	
	For >1,000 To 2,000, Deduct	-139.51	
	For >2,000 To 5,000, Deduct	-227.80	
	For >5,000, Deduct	-378.14	
33 01 30 72-0224	LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,029.80	
	For Vinlyester Resin, Add	1,348.49	
	For Epoxy Resin, Add	158.93	
	For Up To >10, Add	1,273.38	
	For >10 To 25, Add	740.08	
	For >25 To 50, Add	540.37	
	For >50 To 100, Add	270.18	
	For >500 To 1,000, Deduct	-104.07	
	For >1,000 To 2,000, Deduct	-157.40	
	For >2,000 To 5,000, Deduct	-257.02	
	For >5,000, Deduct	-426.64	
33 01 30 72-0225	LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,260.58	
	For Vinlyester Resin, Add	1,501.84	
	For Epoxy Resin, Add	177.00	
	For Up To >10, Add	1,418.02	
	For >10 To 25, Add	824.10	
	For >25 To 50, Add	601.73	
	For >50 To 100, Add	300.87	
	For >500 To 1,000, Deduct	-115.91	
	For >1,000 To 2,000, Deduct	-175.30	
	For >2,000 To 5,000, Deduct	-286.23	
	For >5,000, Deduct	-475.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,497.89	
For Vinylster Resin, Add	1,655.20	
For Epoxy Resin, Add	195.08	
For Up To >10, Add	1,582.25	
For >10 To 25, Add	924.44	
For >25 To 50, Add	672.89	
For >50 To 100, Add	336.45	
For >500 To 1,000, Deduct	-128.23	
For >1,000 To 2,000, Deduct	-194.01	
For >2,000 To 5,000, Deduct	-317.08	
For >5,000, Deduct	-526.24	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,747.12	
For Vinylster Resin, Add	1,820.90	
For Epoxy Resin, Add	214.61	
For Up To >10, Add	1,738.14	
For >10 To 25, Add	1,014.90	
For >25 To 50, Add	739.00	
For >50 To 100, Add	369.50	
For >500 To 1,000, Deduct	-141.00	
For >1,000 To 2,000, Deduct	-213.33	
For >2,000 To 5,000, Deduct	-348.61	
For >5,000, Deduct	-578.59	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,960.65	
For Vinylster Resin, Add	1,961.90	
For Epoxy Resin, Add	231.22	
For Up To >10, Add	1,875.15	
For >10 To 25, Add	1,095.51	
For >25 To 50, Add	797.44	
For >50 To 100, Add	398.72	
For >500 To 1,000, Deduct	-151.98	
For >1,000 To 2,000, Deduct	-229.95	
For >2,000 To 5,000, Deduct	-375.81	
For >5,000, Deduct	-623.72	
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,192.12	
For Vinylster Resin, Add	2,115.26	
For Epoxy Resin, Add	249.30	
For Up To >10, Add	2,021.86	
For >10 To 25, Add	1,181.25	
For >25 To 50, Add	859.84	
For >50 To 100, Add	429.92	
For >500 To 1,000, Deduct	-163.86	
For >1,000 To 2,000, Deduct	-247.93	
For >2,000 To 5,000, Deduct	-405.20	
For >5,000, Deduct	-672.49	
33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,423.43	
For Vinylster Resin, Add	2,268.61	
For Epoxy Resin, Add	267.37	
For Up To >10, Add	2,168.12	
For >10 To 25, Add	1,266.62	
For >25 To 50, Add	922.01	
For >50 To 100, Add	461.01	
For >500 To 1,000, Deduct	-175.74	
For >1,000 To 2,000, Deduct	-265.89	
For >2,000 To 5,000, Deduct	-434.54	
For >5,000, Deduct	-721.20	
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,654.89	
For Vinylster Resin, Add	2,421.97	
For Epoxy Resin, Add	285.45	
For Up To >10, Add	2,314.80	
For >10 To 25, Add	1,352.34	
For >25 To 50, Add	984.40	
For >50 To 100, Add	492.20	
For >500 To 1,000, Deduct	-187.62	
For >1,000 To 2,000, Deduct	-283.86	
For >2,000 To 5,000, Deduct	-463.93	
For >5,000, Deduct	-769.97	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	914.32	
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	914.32	
For Vinylster Resin, Add	607.84	
For Epoxy Resin, Add	71.64	
For Up To >10, Add	572.11	
For >10 To 25, Add	332.04	
For >25 To 50, Add	242.64	
For >50 To 100, Add	121.32	
For >500 To 1,000, Deduct	-46.87	
For >1,000 To 2,000, Deduct	-70.87	
For >2,000 To 5,000, Deduct	-115.70	
For >5,000, Deduct	-192.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

33 01 30 72-0234	LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,035.19	
	For Vinlyester Resin, Add	688.16	
	For Epoxy Resin, Add	81.10	
	For Up To >10, Add	647.85	
	For >10 To 25, Add	376.02	
	For >25 To 50, Add	274.77	
	For >50 To 100, Add	137.38	
	For >500 To 1,000, Deduct	-53.06	
	For >1,000 To 2,000, Deduct	-80.24	
	For >2,000 To 5,000, Deduct	-131.00	
	For >5,000, Deduct	-217.46	
33 01 30 72-0235	LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,155.94	
	For Vinlyester Resin, Add	768.50	
	For Epoxy Resin, Add	90.57	
	For Up To >10, Add	723.20	
	For >10 To 25, Add	419.69	
	For >25 To 50, Add	306.71	
	For >50 To 100, Add	153.35	
	For >500 To 1,000, Deduct	-59.25	
	For >1,000 To 2,000, Deduct	-89.60	
	For >2,000 To 5,000, Deduct	-146.26	
	For >5,000, Deduct	-242.81	
33 01 30 72-0236	LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,397.69	
	For Vinlyester Resin, Add	929.15	
	For Epoxy Resin, Add	109.51	
	For Up To >10, Add	874.67	
	For >10 To 25, Add	507.67	
	For >25 To 50, Add	370.97	
	For >50 To 100, Add	185.48	
	For >500 To 1,000, Deduct	-71.64	
	For >1,000 To 2,000, Deduct	-108.34	
	For >2,000 To 5,000, Deduct	-176.87	
	For >5,000, Deduct	-293.60	
33 01 30 72-0237	LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,639.31	
	For Vinlyester Resin, Add	1,089.81	
	For Epoxy Resin, Add	128.44	
	For Up To >10, Add	1,025.76	
	For >10 To 25, Add	595.32	
	For >25 To 50, Add	435.03	
	For >50 To 100, Add	217.52	
	For >500 To 1,000, Deduct	-84.03	
	For >1,000 To 2,000, Deduct	-127.07	
	For >2,000 To 5,000, Deduct	-207.43	
	For >5,000, Deduct	-344.35	
33 01 30 72-0238	LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,881.06	
	For Vinlyester Resin, Add	1,250.47	
	For Epoxy Resin, Add	147.38	
	For Up To >10, Add	1,177.23	
	For >10 To 25, Add	683.30	
	For >25 To 50, Add	499.30	
	For >50 To 100, Add	249.65	
	For >500 To 1,000, Deduct	-96.42	
	For >1,000 To 2,000, Deduct	-145.81	
	For >2,000 To 5,000, Deduct	-238.04	
	For >5,000, Deduct	-395.15	
33 01 30 72-0239	LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,122.68	
	For Vinlyester Resin, Add	1,411.12	
	For Epoxy Resin, Add	166.31	
	For Up To >10, Add	1,328.32	
	For >10 To 25, Add	770.95	
	For >25 To 50, Add	563.36	
	For >50 To 100, Add	281.68	
	For >500 To 1,000, Deduct	-108.80	
	For >1,000 To 2,000, Deduct	-164.54	
	For >2,000 To 5,000, Deduct	-268.60	
	For >5,000, Deduct	-445.89	
33 01 30 72-0240	LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,364.30	
	For Vinlyester Resin, Add	1,571.78	
	For Epoxy Resin, Add	185.25	
	For Up To >10, Add	1,479.40	
	For >10 To 25, Add	858.60	
	For >25 To 50, Add	627.43	
	For >50 To 100, Add	313.72	
	For >500 To 1,000, Deduct	-121.19	
	For >1,000 To 2,000, Deduct	-183.27	
	For >2,000 To 5,000, Deduct	-299.17	
	For >5,000, Deduct	-496.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,612.57	
For Vinylster Resin, Add	1,732.43	
For Epoxy Resin, Add	204.18	
For Up To >10, Add	1,650.46	
For >10 To 25, Add	962.90	
For >25 To 50, Add	701.49	
For >50 To 100, Add	350.74	
For >500 To 1,000, Deduct	-134.07	
For >1,000 To 2,000, Deduct	-202.83	
For >2,000 To 5,000, Deduct	-331.41	
For >5,000, Deduct	-550.05	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,855.28	
For Vinylster Resin, Add	1,893.09	
For Epoxy Resin, Add	223.11	
For Up To >10, Add	1,804.79	
For >10 To 25, Add	1,053.26	
For >25 To 50, Add	767.17	
For >50 To 100, Add	383.59	
For >500 To 1,000, Deduct	-146.54	
For >1,000 To 2,000, Deduct	-221.69	
For >2,000 To 5,000, Deduct	-362.25	
For >5,000, Deduct	-601.23	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,097.03	
For Vinylster Resin, Add	2,053.74	
For Epoxy Resin, Add	242.05	
For Up To >10, Add	1,956.29	
For >10 To 25, Add	1,141.26	
For >25 To 50, Add	831.45	
For >50 To 100, Add	415.72	
For >500 To 1,000, Deduct	-158.93	
For >1,000 To 2,000, Deduct	-240.43	
For >2,000 To 5,000, Deduct	-392.85	
For >5,000, Deduct	-652.03	
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,339.32	
For Vinylster Resin, Add	2,214.40	
For Epoxy Resin, Add	260.98	
For Up To >10, Add	2,109.39	
For >10 To 25, Add	1,230.58	
For >25 To 50, Add	896.52	
For >50 To 100, Add	448.26	
For >500 To 1,000, Deduct	-171.36	
For >1,000 To 2,000, Deduct	-259.24	
For >2,000 To 5,000, Deduct	-423.58	
For >5,000, Deduct	-703.04	
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,581.62	
For Vinylster Resin, Add	2,375.06	
For Epoxy Resin, Add	279.92	
For Up To >10, Add	2,262.51	
For >10 To 25, Add	1,319.94	
For >25 To 50, Add	961.61	
For >50 To 100, Add	480.80	
For >500 To 1,000, Deduct	-183.80	
For >1,000 To 2,000, Deduct	-278.06	
For >2,000 To 5,000, Deduct	-454.32	
For >5,000, Deduct	-754.06	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,823.92	
For Vinylster Resin, Add	2,535.72	
For Epoxy Resin, Add	298.85	
For Up To >10, Add	2,415.64	
For >10 To 25, Add	1,409.29	
For >25 To 50, Add	1,026.70	
For >50 To 100, Add	513.35	
For >500 To 1,000, Deduct	-196.23	
For >1,000 To 2,000, Deduct	-296.87	
For >2,000 To 5,000, Deduct	-485.06	
For >5,000, Deduct	-805.08	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,078.74	
For Vinylster Resin, Add	717.79	
For Epoxy Resin, Add	84.60	
For Up To >10, Add	672.67	
For >10 To 25, Add	389.66	
For >25 To 50, Add	285.06	
For >50 To 100, Add	142.53	
For >500 To 1,000, Deduct	-55.27	
For >1,000 To 2,000, Deduct	-83.57	
For >2,000 To 5,000, Deduct	-136.38	
For >5,000, Deduct	-226.41	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

33 01 30 72-0249	LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,204.97	
	For Vinlyester Resin, Add	801.77	
	For Epoxy Resin, Add	94.49	
	For Up To >10, Add	751.44	
	For >10 To 25, Add	435.30	
	For >25 To 50, Add	318.45	
	For >50 To 100, Add	159.22	
	For >500 To 1,000, Deduct	-61.74	
	For >1,000 To 2,000, Deduct	-93.35	
	For >2,000 To 5,000, Deduct	-152.34	
	For >5,000, Deduct	-252.91	
33 01 30 72-0250	LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,457.43	
	For Vinlyester Resin, Add	969.73	
	For Epoxy Resin, Add	114.29	
	For Up To >10, Add	908.97	
	For >10 To 25, Add	526.58	
	For >25 To 50, Add	385.22	
	For >50 To 100, Add	192.61	
	For >500 To 1,000, Deduct	-74.67	
	For >1,000 To 2,000, Deduct	-112.91	
	For >2,000 To 5,000, Deduct	-184.26	
	For >5,000, Deduct	-305.91	
33 01 30 72-0251	LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,709.75	
	For Vinlyester Resin, Add	1,137.69	
	For Epoxy Resin, Add	134.08	
	For Up To >10, Add	1,066.08	
	For >10 To 25, Add	617.52	
	For >25 To 50, Add	451.77	
	For >50 To 100, Add	225.89	
	For >500 To 1,000, Deduct	-87.60	
	For >1,000 To 2,000, Deduct	-132.46	
	For >2,000 To 5,000, Deduct	-216.15	
	For >5,000, Deduct	-358.85	
33 01 30 72-0252	LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,962.20	
	For Vinlyester Resin, Add	1,305.65	
	For Epoxy Resin, Add	153.88	
	For Up To >10, Add	1,223.58	
	For >10 To 25, Add	708.78	
	For >25 To 50, Add	518.53	
	For >50 To 100, Add	259.26	
	For >500 To 1,000, Deduct	-100.53	
	For >1,000 To 2,000, Deduct	-152.01	
	For >2,000 To 5,000, Deduct	-248.07	
	For >5,000, Deduct	-411.84	
33 01 30 72-0253	LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,214.53	
	For Vinlyester Resin, Add	1,473.61	
	For Epoxy Resin, Add	173.68	
	For Up To >10, Add	1,380.69	
	For >10 To 25, Add	799.72	
	For >25 To 50, Add	585.09	
	For >50 To 100, Add	292.54	
	For >500 To 1,000, Deduct	-113.46	
	For >1,000 To 2,000, Deduct	-171.56	
	For >2,000 To 5,000, Deduct	-279.96	
	For >5,000, Deduct	-464.78	
33 01 30 72-0254	LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,466.99	
	For Vinlyester Resin, Add	1,641.57	
	For Epoxy Resin, Add	193.47	
	For Up To >10, Add	1,538.22	
	For >10 To 25, Add	891.00	
	For >25 To 50, Add	651.86	
	For >50 To 100, Add	325.93	
	For >500 To 1,000, Deduct	-126.40	
	For >1,000 To 2,000, Deduct	-191.12	
	For >2,000 To 5,000, Deduct	-311.88	
	For >5,000, Deduct	-517.78	
33 01 30 72-0255	LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,726.11	
	For Vinlyester Resin, Add	1,809.53	
	For Epoxy Resin, Add	213.27	
	For Up To >10, Add	1,715.73	
	For >10 To 25, Add	998.94	
	For >25 To 50, Add	728.61	
	For >50 To 100, Add	364.31	
	For >500 To 1,000, Deduct	-139.83	
	For >1,000 To 2,000, Deduct	-211.51	
	For >2,000 To 5,000, Deduct	-345.47	
	For >5,000, Deduct	-573.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,979.38	
For Vinlyester Resin, Add	1,977.49	
For Epoxy Resin, Add	233.06	
For Up To >10, Add	1,875.69	
For >10 To 25, Add	1,092.25	
For >25 To 50, Add	796.60	
For >50 To 100, Add	398.30	
For >500 To 1,000, Deduct	-152.83	
For >1,000 To 2,000, Deduct	-231.17	
For >2,000 To 5,000, Deduct	-377.60	
For >5,000, Deduct	-626.76	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,229.93	
For Vinlyester Resin, Add	2,145.44	
For Epoxy Resin, Add	252.86	
For Up To >10, Add	2,027.49	
For >10 To 25, Add	1,178.76	
For >25 To 50, Add	860.50	
For >50 To 100, Add	430.25	
For >500 To 1,000, Deduct	-165.62	
For >1,000 To 2,000, Deduct	-250.50	
For >2,000 To 5,000, Deduct	-409.04	
For >5,000, Deduct	-678.99	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,485.24	
For Vinlyester Resin, Add	2,313.40	
For Epoxy Resin, Add	272.65	
For Up To >10, Add	2,193.57	
For >10 To 25, Add	1,277.17	
For >25 To 50, Add	931.54	
For >50 To 100, Add	465.77	
For >500 To 1,000, Deduct	-178.77	
For >1,000 To 2,000, Deduct	-270.41	
For >2,000 To 5,000, Deduct	-441.68	
For >5,000, Deduct	-733.12	
33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,738.24	
For Vinlyester Resin, Add	2,481.36	
For Epoxy Resin, Add	292.45	
For Up To >10, Add	2,352.72	
For >10 To 25, Add	1,369.80	
For >25 To 50, Add	999.12	
For >50 To 100, Add	499.56	
For >500 To 1,000, Deduct	-191.75	
For >1,000 To 2,000, Deduct	-290.04	
For >2,000 To 5,000, Deduct	-473.74	
For >5,000, Deduct	-786.34	
33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,991.25	
For Vinlyester Resin, Add	2,649.33	
For Epoxy Resin, Add	312.24	
For Up To >10, Add	2,511.88	
For >10 To 25, Add	1,462.44	
For >25 To 50, Add	1,066.70	
For >50 To 100, Add	533.35	
For >500 To 1,000, Deduct	-204.73	
For >1,000 To 2,000, Deduct	-309.67	
For >2,000 To 5,000, Deduct	-505.80	
For >5,000, Deduct	-839.55	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,122.09	
For Vinlyester Resin, Add	747.28	
For Epoxy Resin, Add	88.07	
For Up To >10, Add	697.42	
For >10 To 25, Add	403.26	
For >25 To 50, Add	295.33	
For >50 To 100, Add	147.67	
For >500 To 1,000, Deduct	-57.47	
For >1,000 To 2,000, Deduct	-86.88	
For >2,000 To 5,000, Deduct	-141.74	
For >5,000, Deduct	-235.33	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,253.66	
For Vinlyester Resin, Add	834.90	
For Epoxy Resin, Add	98.40	
For Up To >10, Add	779.18	
For >10 To 25, Add	450.53	
For >25 To 50, Add	329.95	
For >50 To 100, Add	164.98	
For >500 To 1,000, Deduct	-64.21	
For >1,000 To 2,000, Deduct	-97.07	
For >2,000 To 5,000, Deduct	-158.36	
For >5,000, Deduct	-262.92	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0264	LF		36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,516.83	
			<i>For Vinlyester Resin, Add</i>	1,010.17	
			<i>For Epoxy Resin, Add</i>	119.06	
			<i>For Up To >10, Add</i>	942.74	
			<i>For >10 To 25, Add</i>	545.10	
			<i>For >25 To 50, Add</i>	399.22	
			<i>For >50 To 100, Add</i>	199.61	
			<i>For >500 To 1,000, Deduct</i>	-77.68	
			<i>For >1,000 To 2,000, Deduct</i>	-117.45	
			<i>For >2,000 To 5,000, Deduct</i>	-191.60	
			<i>For >5,000, Deduct</i>	-318.11	
33 01 30 72-0265	LF		36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,780.00	
			<i>For Vinlyester Resin, Add</i>	1,185.44	
			<i>For Epoxy Resin, Add</i>	139.71	
			<i>For Up To >10, Add</i>	1,106.30	
			<i>For >10 To 25, Add</i>	639.67	
			<i>For >25 To 50, Add</i>	468.48	
			<i>For >50 To 100, Add</i>	234.24	
			<i>For >500 To 1,000, Deduct</i>	-91.16	
			<i>For >1,000 To 2,000, Deduct</i>	-137.83	
			<i>For >2,000 To 5,000, Deduct</i>	-224.85	
			<i>For >5,000, Deduct</i>	-373.30	
33 01 30 72-0266	LF		36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,043.02	
			<i>For Vinlyester Resin, Add</i>	1,360.70	
			<i>For Epoxy Resin, Add</i>	160.37	
			<i>For Up To >10, Add</i>	1,269.44	
			<i>For >10 To 25, Add</i>	733.89	
			<i>For >25 To 50, Add</i>	537.53	
			<i>For >50 To 100, Add</i>	268.76	
			<i>For >500 To 1,000, Deduct</i>	-104.63	
			<i>For >1,000 To 2,000, Deduct</i>	-158.19	
			<i>For >2,000 To 5,000, Deduct</i>	-258.05	
			<i>For >5,000, Deduct</i>	-428.44	
33 01 30 72-0267	LF		36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,306.18	
			<i>For Vinlyester Resin, Add</i>	1,535.95	
			<i>For Epoxy Resin, Add</i>	181.02	
			<i>For Up To >10, Add</i>	1,432.99	
			<i>For >10 To 25, Add</i>	828.46	
			<i>For >25 To 50, Add</i>	606.78	
			<i>For >50 To 100, Add</i>	303.39	
			<i>For >500 To 1,000, Deduct</i>	-118.11	
			<i>For >1,000 To 2,000, Deduct</i>	-178.56	
			<i>For >2,000 To 5,000, Deduct</i>	-291.30	
			<i>For >5,000, Deduct</i>	-483.63	
33 01 30 72-0268	LF		36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,569.33	
			<i>For Vinlyester Resin, Add</i>	1,711.21	
			<i>For Epoxy Resin, Add</i>	201.68	
			<i>For Up To >10, Add</i>	1,596.52	
			<i>For >10 To 25, Add</i>	923.00	
			<i>For >25 To 50, Add</i>	676.03	
			<i>For >50 To 100, Add</i>	338.01	
			<i>For >500 To 1,000, Deduct</i>	-131.59	
			<i>For >1,000 To 2,000, Deduct</i>	-198.94	
			<i>For >2,000 To 5,000, Deduct</i>	-324.54	
			<i>For >5,000, Deduct</i>	-538.81	
33 01 30 72-0269	LF		36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,839.44	
			<i>For Vinlyester Resin, Add</i>	1,886.48	
			<i>For Epoxy Resin, Add</i>	222.34	
			<i>For Up To >10, Add</i>	1,780.90	
			<i>For >10 To 25, Add</i>	1,034.92	
			<i>For >25 To 50, Add</i>	755.70	
			<i>For >50 To 100, Add</i>	377.85	
			<i>For >500 To 1,000, Deduct</i>	-145.58	
			<i>For >1,000 To 2,000, Deduct</i>	-220.18	
			<i>For >2,000 To 5,000, Deduct</i>	-359.51	
			<i>For >5,000, Deduct</i>	-596.78	
33 01 30 72-0270	LF		36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,103.27	
			<i>For Vinlyester Resin, Add</i>	2,061.74	
			<i>For Epoxy Resin, Add</i>	242.99	
			<i>For Up To >10, Add</i>	1,946.46	
			<i>For >10 To 25, Add</i>	1,131.16	
			<i>For >25 To 50, Add</i>	825.96	
			<i>For >50 To 100, Add</i>	412.98	
			<i>For >500 To 1,000, Deduct</i>	-159.11	
			<i>For >1,000 To 2,000, Deduct</i>	-240.64	
			<i>For >2,000 To 5,000, Deduct</i>	-392.92	
			<i>For >5,000, Deduct</i>	-652.24	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,362.49	
For Vinyl Ester Resin, Add	2,237.00	
For Epoxy Resin, Add	263.65	
For Up To >10, Add	2,098.20	
For >10 To 25, Add	1,215.88	
For >25 To 50, Add	889.31	
For >50 To 100, Add	444.66	
For >500 To 1,000, Deduct	-172.29	
For >1,000 To 2,000, Deduct	-260.53	
For >2,000 To 5,000, Deduct	-425.18	
For >5,000, Deduct	-705.85	
33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,630.82	
For Vinyl Ester Resin, Add	2,412.26	
For Epoxy Resin, Add	284.30	
For Up To >10, Add	2,277.24	
For >10 To 25, Add	1,323.35	
For >25 To 50, Add	966.31	
For >50 To 100, Add	483.16	
For >500 To 1,000, Deduct	-186.16	
For >1,000 To 2,000, Deduct	-281.55	
For >2,000 To 5,000, Deduct	-459.71	
For >5,000, Deduct	-763.11	
33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,894.66	
For Vinyl Ester Resin, Add	2,587.52	
For Epoxy Resin, Add	304.96	
For Up To >10, Add	2,442.83	
For >10 To 25, Add	1,419.62	
For >25 To 50, Add	1,036.59	
For >50 To 100, Add	518.30	
For >500 To 1,000, Deduct	-199.69	
For >1,000 To 2,000, Deduct	-302.01	
For >2,000 To 5,000, Deduct	-493.13	
For >5,000, Deduct	-818.57	
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,158.51	
For Vinyl Ester Resin, Add	2,762.79	
For Epoxy Resin, Add	325.61	
For Up To >10, Add	2,608.43	
For >10 To 25, Add	1,515.89	
For >25 To 50, Add	1,106.87	
For >50 To 100, Add	553.44	
For >500 To 1,000, Deduct	-213.22	
For >1,000 To 2,000, Deduct	-322.47	
For >2,000 To 5,000, Deduct	-526.54	
For >5,000, Deduct	-874.04	
33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,422.21	
For Vinyl Ester Resin, Add	2,938.05	
For Epoxy Resin, Add	346.27	
For Up To >10, Add	2,773.61	
For >10 To 25, Add	1,611.80	
For >25 To 50, Add	1,176.94	
For >50 To 100, Add	588.47	
For >500 To 1,000, Deduct	-226.74	
For >1,000 To 2,000, Deduct	-342.92	
For >2,000 To 5,000, Deduct	-559.92	
For >5,000, Deduct	-929.44	
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,686.05	
For Vinyl Ester Resin, Add	3,113.31	
For Epoxy Resin, Add	366.93	
For Up To >10, Add	2,939.20	
For >10 To 25, Add	1,708.07	
For >25 To 50, Add	1,247.22	
For >50 To 100, Add	623.61	
For >500 To 1,000, Deduct	-240.26	
For >1,000 To 2,000, Deduct	-363.38	
For >2,000 To 5,000, Deduct	-593.33	
For >5,000, Deduct	-984.90	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,302.02	
For Vinyl Ester Resin, Add	867.90	
For Epoxy Resin, Add	102.29	
For Up To >10, Add	806.44	
For >10 To 25, Add	465.39	
For >25 To 50, Add	341.23	
For >50 To 100, Add	170.61	
For >500 To 1,000, Deduct	-66.66	
For >1,000 To 2,000, Deduct	-100.76	
For >2,000 To 5,000, Deduct	-164.32	
For >5,000, Deduct	-272.84	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0279	LF	37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,575.89	
			<i>For Vinlyester Resin, Add</i>	1,050.46	
			<i>For Epoxy Resin, Add</i>	123.80	
			<i>For Up To >10, Add</i>	976.02	
			<i>For >10 To 25, Add</i>	563.24	
			<i>For >25 To 50, Add</i>	412.98	
			<i>For >50 To 100, Add</i>	206.49	
			<i>For >500 To 1,000, Deduct</i>	-80.68	
			<i>For >1,000 To 2,000, Deduct</i>	-121.95	
			<i>For >2,000 To 5,000, Deduct</i>	-198.89	
			<i>For >5,000, Deduct</i>	-330.22	
33 01 30	72-0280	LF	37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,849.76	
			<i>For Vinlyester Resin, Add</i>	1,233.03	
			<i>For Epoxy Resin, Add</i>	145.32	
			<i>For Up To >10, Add</i>	1,145.61	
			<i>For >10 To 25, Add</i>	661.09	
			<i>For >25 To 50, Add</i>	484.73	
			<i>For >50 To 100, Add</i>	242.36	
			<i>For >500 To 1,000, Deduct</i>	-94.70	
			<i>For >1,000 To 2,000, Deduct</i>	-143.15	
			<i>For >2,000 To 5,000, Deduct</i>	-233.45	
			<i>For >5,000, Deduct</i>	-387.61	
33 01 30	72-0281	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,123.61	
			<i>For Vinlyester Resin, Add</i>	1,415.59	
			<i>For Epoxy Resin, Add</i>	166.84	
			<i>For Up To >10, Add</i>	1,315.16	
			<i>For >10 To 25, Add</i>	758.92	
			<i>For >25 To 50, Add</i>	556.46	
			<i>For >50 To 100, Add</i>	278.23	
			<i>For >500 To 1,000, Deduct</i>	-108.71	
			<i>For >1,000 To 2,000, Deduct</i>	-164.34	
			<i>For >2,000 To 5,000, Deduct</i>	-268.01	
			<i>For >5,000, Deduct</i>	-444.99	
33 01 30	72-0282	LF	37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,397.49	
			<i>For Vinlyester Resin, Add</i>	1,598.16	
			<i>For Epoxy Resin, Add</i>	188.35	
			<i>For Up To >10, Add</i>	1,484.77	
			<i>For >10 To 25, Add</i>	856.80	
			<i>For >25 To 50, Add</i>	628.23	
			<i>For >50 To 100, Add</i>	314.12	
			<i>For >500 To 1,000, Deduct</i>	-122.73	
			<i>For >1,000 To 2,000, Deduct</i>	-185.53	
			<i>For >2,000 To 5,000, Deduct</i>	-302.57	
			<i>For >5,000, Deduct</i>	-502.38	
33 01 30	72-0283	LF	37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,671.35	
			<i>For Vinlyester Resin, Add</i>	1,780.72	
			<i>For Epoxy Resin, Add</i>	209.87	
			<i>For Up To >10, Add</i>	1,654.33	
			<i>For >10 To 25, Add</i>	954.62	
			<i>For >25 To 50, Add</i>	699.97	
			<i>For >50 To 100, Add</i>	349.98	
			<i>For >500 To 1,000, Deduct</i>	-136.75	
			<i>For >1,000 To 2,000, Deduct</i>	-206.72	
			<i>For >2,000 To 5,000, Deduct</i>	-337.13	
			<i>For >5,000, Deduct</i>	-559.76	
33 01 30	72-0284	LF	37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,952.28	
			<i>For Vinlyester Resin, Add</i>	1,963.28	
			<i>For Epoxy Resin, Add</i>	231.39	
			<i>For Up To >10, Add</i>	1,845.12	
			<i>For >10 To 25, Add</i>	1,070.15	
			<i>For >25 To 50, Add</i>	782.32	
			<i>For >50 To 100, Add</i>	391.16	
			<i>For >500 To 1,000, Deduct</i>	-151.30	
			<i>For >1,000 To 2,000, Deduct</i>	-228.80	
			<i>For >2,000 To 5,000, Deduct</i>	-373.46	
			<i>For >5,000, Deduct</i>	-619.97	
33 01 30	72-0285	LF	37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,226.83	
			<i>For Vinlyester Resin, Add</i>	2,145.84	
			<i>For Epoxy Resin, Add</i>	252.90	
			<i>For Up To >10, Add</i>	2,016.77	
			<i>For >10 To 25, Add</i>	1,169.72	
			<i>For >25 To 50, Add</i>	855.11	
			<i>For >50 To 100, Add</i>	427.55	
			<i>For >500 To 1,000, Deduct</i>	-165.38	
			<i>For >1,000 To 2,000, Deduct</i>	-250.08	
			<i>For >2,000 To 5,000, Deduct</i>	-408.19	
			<i>For >5,000, Deduct</i>	-677.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,499.06	
For Vinyl Ester Resin, Add	2,328.41	
For Epoxy Resin, Add	274.42	
For Up To >10, Add	2,181.43	
For >10 To 25, Add	1,263.48	
For >25 To 50, Add	924.40	
For >50 To 100, Add	462.20	
For >500 To 1,000, Deduct	-179.27	
For >1,000 To 2,000, Deduct	-271.07	
For >2,000 To 5,000, Deduct	-442.35	
For >5,000, Deduct	-734.36	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,775.93	
For Vinyl Ester Resin, Add	2,510.98	
For Epoxy Resin, Add	295.94	
For Up To >10, Add	2,360.02	
For >10 To 25, Add	1,368.83	
For >25 To 50, Add	1,000.65	
For >50 To 100, Add	500.33	
For >500 To 1,000, Deduct	-193.52	
For >1,000 To 2,000, Deduct	-292.64	
For >2,000 To 5,000, Deduct	-477.66	
For >5,000, Deduct	-792.95	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,050.46	
For Vinyl Ester Resin, Add	2,693.54	
For Epoxy Resin, Add	317.45	
For Up To >10, Add	2,531.61	
For >10 To 25, Add	1,468.35	
For >25 To 50, Add	1,073.41	
For >50 To 100, Add	536.70	
For >500 To 1,000, Deduct	-207.59	
For >1,000 To 2,000, Deduct	-313.91	
For >2,000 To 5,000, Deduct	-512.39	
For >5,000, Deduct	-850.60	
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,324.88	
For Vinyl Ester Resin, Add	2,876.10	
For Epoxy Resin, Add	338.97	
For Up To >10, Add	2,702.84	
For >10 To 25, Add	1,567.58	
For >25 To 50, Add	1,145.98	
For >50 To 100, Add	572.99	
For >500 To 1,000, Deduct	-221.65	
For >1,000 To 2,000, Deduct	-335.17	
For >2,000 To 5,000, Deduct	-547.09	
For >5,000, Deduct	-908.21	
33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,599.43	
For Vinyl Ester Resin, Add	3,058.67	
For Epoxy Resin, Add	360.49	
For Up To >10, Add	2,874.47	
For >10 To 25, Add	1,667.13	
For >25 To 50, Add	1,218.76	
For >50 To 100, Add	609.38	
For >500 To 1,000, Deduct	-235.72	
For >1,000 To 2,000, Deduct	-356.45	
For >2,000 To 5,000, Deduct	-581.82	
For >5,000, Deduct	-965.87	
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,873.97	
For Vinyl Ester Resin, Add	3,241.23	
For Epoxy Resin, Add	382.00	
For Up To >10, Add	3,046.09	
For >10 To 25, Add	1,766.68	
For >25 To 50, Add	1,291.53	
For >50 To 100, Add	645.76	
For >500 To 1,000, Deduct	-249.79	
For >1,000 To 2,000, Deduct	-377.73	
For >2,000 To 5,000, Deduct	-616.55	
For >5,000, Deduct	-1,023.52	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,634.75	
For Vinyl Ester Resin, Add	1,090.61	
For Epoxy Resin, Add	128.54	
For Up To >10, Add	1,009.20	
For >10 To 25, Add	581.33	
For >25 To 50, Add	426.70	
For >50 To 100, Add	213.35	
For >500 To 1,000, Deduct	-83.66	
For >1,000 To 2,000, Deduct	-126.44	
For >2,000 To 5,000, Deduct	-206.14	
For >5,000, Deduct	-342.30	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0294	LF	39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,919.31	
			For Vinlyester Resin, Add	1,280.48	
			For Epoxy Resin, Add	150.91	
			For Up To >10, Add	1,184.78	
			For >10 To 25, Add	682.44	
			For >25 To 50, Add	500.93	
			For >50 To 100, Add	250.46	
			For >500 To 1,000, Deduct	-98.22	
			For >1,000 To 2,000, Deduct	-148.45	
			For >2,000 To 5,000, Deduct	-242.02	
			For >5,000, Deduct	-401.87	
33 01 30	72-0295	LF	39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,203.89	
			For Vinlyester Resin, Add	1,470.35	
			For Epoxy Resin, Add	173.29	
			For Up To >10, Add	1,360.42	
			For >10 To 25, Add	783.60	
			For >25 To 50, Add	575.19	
			For >50 To 100, Add	287.59	
			For >500 To 1,000, Deduct	-112.78	
			For >1,000 To 2,000, Deduct	-170.46	
			For >2,000 To 5,000, Deduct	-277.91	
			For >5,000, Deduct	-461.46	
33 01 30	72-0296	LF	39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,488.45	
			For Vinlyester Resin, Add	1,660.21	
			For Epoxy Resin, Add	195.67	
			For Up To >10, Add	1,536.03	
			For >10 To 25, Add	884.73	
			For >25 To 50, Add	649.43	
			For >50 To 100, Add	324.71	
			For >500 To 1,000, Deduct	-127.34	
			For >1,000 To 2,000, Deduct	-192.47	
			For >2,000 To 5,000, Deduct	-313.79	
			For >5,000, Deduct	-521.03	
33 01 30	72-0297	LF	39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,773.16	
			For Vinlyester Resin, Add	1,850.08	
			For Epoxy Resin, Add	218.05	
			For Up To >10, Add	1,712.06	
			For >10 To 25, Add	986.22	
			For >25 To 50, Add	723.88	
			For >50 To 100, Add	361.94	
			For >500 To 1,000, Deduct	-141.91	
			For >1,000 To 2,000, Deduct	-214.50	
			For >2,000 To 5,000, Deduct	-349.70	
			For >5,000, Deduct	-580.67	
33 01 30	72-0298	LF	39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,064.80	
			For Vinlyester Resin, Add	2,039.95	
			For Epoxy Resin, Add	240.42	
			For Up To >10, Add	1,908.88	
			For >10 To 25, Add	1,105.03	
			For >25 To 50, Add	808.73	
			For >50 To 100, Add	404.36	
			For >500 To 1,000, Deduct	-157.00	
			For >1,000 To 2,000, Deduct	-237.39	
			For >2,000 To 5,000, Deduct	-387.35	
			For >5,000, Deduct	-643.08	
33 01 30	72-0299	LF	39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,350.04	
			For Vinlyester Resin, Add	2,229.81	
			For Epoxy Resin, Add	262.80	
			For Up To >10, Add	2,086.52	
			For >10 To 25, Add	1,207.86	
			For >25 To 50, Add	883.99	
			For >50 To 100, Add	441.99	
			For >500 To 1,000, Deduct	-171.62	
			For >1,000 To 2,000, Deduct	-259.48	
			For >2,000 To 5,000, Deduct	-423.40	
			For >5,000, Deduct	-702.93	
33 01 30	72-0300	LF	39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,635.30	
			For Vinlyester Resin, Add	2,419.68	
			For Epoxy Resin, Add	285.18	
			For Up To >10, Add	2,264.20	
			For >10 To 25, Add	1,310.72	
			For >25 To 50, Add	959.27	
			For >50 To 100, Add	479.63	
			For >500 To 1,000, Deduct	-186.23	
			For >1,000 To 2,000, Deduct	-281.58	
			For >2,000 To 5,000, Deduct	-459.46	
			For >5,000, Deduct	-762.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,920.69	
For Vinylster Resin, Add	2,609.54	
For Epoxy Resin, Add	307.55	
For Up To >10, Add	2,442.27	
For >10 To 25, Add	1,413.91	
For >25 To 50, Add	1,034.74	
For >50 To 100, Add	517.37	
For >500 To 1,000, Deduct	-200.85	
For >1,000 To 2,000, Deduct	-303.69	
For >2,000 To 5,000, Deduct	-495.54	
For >5,000, Deduct	-822.69	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,205.93	
For Vinylster Resin, Add	2,799.41	
For Epoxy Resin, Add	329.93	
For Up To >10, Add	2,619.89	
For >10 To 25, Add	1,516.72	
For >25 To 50, Add	1,109.99	
For >50 To 100, Add	554.99	
For >500 To 1,000, Deduct	-215.47	
For >1,000 To 2,000, Deduct	-325.78	
For >2,000 To 5,000, Deduct	-531.59	
For >5,000, Deduct	-882.54	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,491.18	
For Vinylster Resin, Add	2,989.28	
For Epoxy Resin, Add	352.31	
For Up To >10, Add	2,797.54	
For >10 To 25, Add	1,619.55	
For >25 To 50, Add	1,185.25	
For >50 To 100, Add	592.63	
For >500 To 1,000, Deduct	-230.08	
For >1,000 To 2,000, Deduct	-347.88	
For >2,000 To 5,000, Deduct	-567.64	
For >5,000, Deduct	-942.39	
33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,776.44	
For Vinylster Resin, Add	3,179.15	
For Epoxy Resin, Add	374.69	
For Up To >10, Add	2,975.22	
For >10 To 25, Add	1,722.41	
For >25 To 50, Add	1,260.53	
For >50 To 100, Add	630.26	
For >500 To 1,000, Deduct	-244.69	
For >1,000 To 2,000, Deduct	-369.97	
For >2,000 To 5,000, Deduct	-603.70	
For >5,000, Deduct	-1,002.25	
33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,061.69	
For Vinylster Resin, Add	3,369.02	
For Epoxy Resin, Add	397.06	
For Up To >10, Add	3,152.87	
For >10 To 25, Add	1,825.25	
For >25 To 50, Add	1,335.79	
For >50 To 100, Add	667.90	
For >500 To 1,000, Deduct	-259.30	
For >1,000 To 2,000, Deduct	-392.07	
For >2,000 To 5,000, Deduct	-639.75	
For >5,000, Deduct	-1,062.10	
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,346.93	
For Vinylster Resin, Add	3,558.88	
For Epoxy Resin, Add	419.44	
For Up To >10, Add	3,330.52	
For >10 To 25, Add	1,928.08	
For >25 To 50, Add	1,411.05	
For >50 To 100, Add	705.53	
For >500 To 1,000, Deduct	-273.92	
For >1,000 To 2,000, Deduct	-414.16	
For >2,000 To 5,000, Deduct	-675.80	
For >5,000, Deduct	-1,121.95	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,632.18	
For Vinylster Resin, Add	3,748.75	
For Epoxy Resin, Add	441.82	
For Up To >10, Add	3,508.17	
For >10 To 25, Add	2,030.91	
For >25 To 50, Add	1,486.32	
For >50 To 100, Add	743.16	
For >500 To 1,000, Deduct	-288.53	
For >1,000 To 2,000, Deduct	-436.26	
For >2,000 To 5,000, Deduct	-711.85	
For >5,000, Deduct	-1,181.80	

33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0309	LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,988.53	
	For Vinlyester Resin, Add	1,327.79	
	For Epoxy Resin, Add	156.49	
	For Up To >10, Add	1,223.49	
	For >10 To 25, Add	703.44	
	For >25 To 50, Add	516.90	
	For >50 To 100, Add	258.45	
	For >500 To 1,000, Deduct	-101.72	
	For >1,000 To 2,000, Deduct	-153.72	
	For >2,000 To 5,000, Deduct	-250.54	
	For >5,000, Deduct	-416.04	
33 01 30 72-0310	LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,283.80	
	For Vinlyester Resin, Add	1,524.96	
	For Epoxy Resin, Add	179.73	
	For Up To >10, Add	1,405.13	
	For >10 To 25, Add	807.85	
	For >25 To 50, Add	593.64	
	For >50 To 100, Add	296.82	
	For >500 To 1,000, Deduct	-116.82	
	For >1,000 To 2,000, Deduct	-176.55	
	For >2,000 To 5,000, Deduct	-287.74	
	For >5,000, Deduct	-477.82	
33 01 30 72-0311	LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,579.08	
	For Vinlyester Resin, Add	1,722.13	
	For Epoxy Resin, Add	202.96	
	For Up To >10, Add	1,586.79	
	For >10 To 25, Add	912.30	
	For >25 To 50, Add	670.39	
	For >50 To 100, Add	335.19	
	For >500 To 1,000, Deduct	-131.93	
	For >1,000 To 2,000, Deduct	-199.38	
	For >2,000 To 5,000, Deduct	-324.95	
	For >5,000, Deduct	-539.60	
33 01 30 72-0312	LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,874.34	
	For Vinlyester Resin, Add	1,919.30	
	For Epoxy Resin, Add	226.20	
	For Up To >10, Add	1,768.40	
	For >10 To 25, Add	1,016.69	
	For >25 To 50, Add	747.11	
	For >50 To 100, Add	373.55	
	For >500 To 1,000, Deduct	-147.03	
	For >1,000 To 2,000, Deduct	-222.20	
	For >2,000 To 5,000, Deduct	-362.14	
	For >5,000, Deduct	-601.37	
33 01 30 72-0313	LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,176.97	
	For Vinlyester Resin, Add	2,116.46	
	For Epoxy Resin, Add	249.44	
	For Up To >10, Add	1,972.11	
	For >10 To 25, Add	1,139.51	
	For >25 To 50, Add	834.88	
	For >50 To 100, Add	417.44	
	For >500 To 1,000, Deduct	-162.68	
	For >1,000 To 2,000, Deduct	-245.95	
	For >2,000 To 5,000, Deduct	-401.18	
	For >5,000, Deduct	-666.08	
33 01 30 72-0314	LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,472.92	
	For Vinlyester Resin, Add	2,313.63	
	For Epoxy Resin, Add	272.68	
	For Up To >10, Add	2,155.79	
	For >10 To 25, Add	1,245.62	
	For >25 To 50, Add	912.63	
	For >50 To 100, Add	456.32	
	For >500 To 1,000, Deduct	-177.84	
	For >1,000 To 2,000, Deduct	-268.86	
	For >2,000 To 5,000, Deduct	-438.56	
	For >5,000, Deduct	-728.13	
33 01 30 72-0315	LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,768.88	
	For Vinlyester Resin, Add	2,510.80	
	For Epoxy Resin, Add	295.92	
	For Up To >10, Add	2,339.49	
	For >10 To 25, Add	1,351.77	
	For >25 To 50, Add	990.40	
	For >50 To 100, Add	495.20	
	For >500 To 1,000, Deduct	-192.99	
	For >1,000 To 2,000, Deduct	-291.77	
	For >2,000 To 5,000, Deduct	-475.93	
	For >5,000, Deduct	-790.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,064.83	
For Vinylster Resin, Add	2,707.97	
For Epoxy Resin, Add	319.15	
For Up To >10, Add	2,523.17	
For >10 To 25, Add	1,457.88	
For >25 To 50, Add	1,068.16	
For >50 To 100, Add	534.08	
For >500 To 1,000, Deduct	-208.15	
For >1,000 To 2,000, Deduct	-314.68	
For >2,000 To 5,000, Deduct	-513.30	
For >5,000, Deduct	-852.23	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,360.78	
For Vinylster Resin, Add	2,905.14	
For Epoxy Resin, Add	342.39	
For Up To >10, Add	2,706.84	
For >10 To 25, Add	1,564.00	
For >25 To 50, Add	1,145.91	
For >50 To 100, Add	572.96	
For >500 To 1,000, Deduct	-223.30	
For >1,000 To 2,000, Deduct	-337.59	
For >2,000 To 5,000, Deduct	-550.67	
For >5,000, Deduct	-914.27	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,656.73	
For Vinylster Resin, Add	3,102.31	
For Epoxy Resin, Add	365.63	
For Up To >10, Add	2,890.52	
For >10 To 25, Add	1,670.12	
For >25 To 50, Add	1,223.66	
For >50 To 100, Add	611.83	
For >500 To 1,000, Deduct	-238.46	
For >1,000 To 2,000, Deduct	-360.50	
For >2,000 To 5,000, Deduct	-588.04	
For >5,000, Deduct	-976.32	
33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,952.69	
For Vinylster Resin, Add	3,299.48	
For Epoxy Resin, Add	388.87	
For Up To >10, Add	3,074.22	
For >10 To 25, Add	1,776.26	
For >25 To 50, Add	1,301.43	
For >50 To 100, Add	650.72	
For >500 To 1,000, Deduct	-253.61	
For >1,000 To 2,000, Deduct	-383.41	
For >2,000 To 5,000, Deduct	-625.41	
For >5,000, Deduct	-1,038.37	
33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,248.64	
For Vinylster Resin, Add	3,496.65	
For Epoxy Resin, Add	412.10	
For Up To >10, Add	3,257.90	
For >10 To 25, Add	1,882.38	
For >25 To 50, Add	1,379.19	
For >50 To 100, Add	689.59	
For >500 To 1,000, Deduct	-268.77	
For >1,000 To 2,000, Deduct	-406.32	
For >2,000 To 5,000, Deduct	-662.78	
For >5,000, Deduct	-1,100.41	
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,544.60	
For Vinylster Resin, Add	3,693.82	
For Epoxy Resin, Add	435.34	
For Up To >10, Add	3,441.60	
For >10 To 25, Add	1,988.52	
For >25 To 50, Add	1,456.96	
For >50 To 100, Add	728.48	
For >500 To 1,000, Deduct	-283.92	
For >1,000 To 2,000, Deduct	-429.23	
For >2,000 To 5,000, Deduct	-700.16	
For >5,000, Deduct	-1,162.46	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,840.56	
For Vinylster Resin, Add	3,890.99	
For Epoxy Resin, Add	458.58	
For Up To >10, Add	3,625.28	
For >10 To 25, Add	2,094.64	
For >25 To 50, Add	1,534.71	
For >50 To 100, Add	767.36	
For >500 To 1,000, Deduct	-299.08	
For >1,000 To 2,000, Deduct	-452.14	
For >2,000 To 5,000, Deduct	-737.53	
For >5,000, Deduct	-1,224.51	

33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities
33 01 Operation and Maintenance of Utilities
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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0324	LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,363.38	
	For Vinlyester Resin, Add	1,579.42	
	For Epoxy Resin, Add	186.15	
	For Up To >10, Add	1,449.34	
	For >10 To 25, Add	831.73	
	For >25 To 50, Add	611.85	
	For >50 To 100, Add	305.93	
	For >500 To 1,000, Deduct	-120.85	
	For >1,000 To 2,000, Deduct	-182.61	
	For >2,000 To 5,000, Deduct	-297.52	
	For >5,000, Deduct	-494.09	
33 01 30 72-0325	LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,669.36	
	For Vinlyester Resin, Add	1,783.90	
	For Epoxy Resin, Add	210.25	
	For Up To >10, Add	1,637.01	
	For >10 To 25, Add	939.43	
	For >25 To 50, Add	691.08	
	For >50 To 100, Add	345.54	
	For >500 To 1,000, Deduct	-136.49	
	For >1,000 To 2,000, Deduct	-206.25	
	For >2,000 To 5,000, Deduct	-336.04	
	For >5,000, Deduct	-558.06	
33 01 30 72-0326	LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,975.34	
	For Vinlyester Resin, Add	1,988.37	
	For Epoxy Resin, Add	234.34	
	For Up To >10, Add	1,824.70	
	For >10 To 25, Add	1,047.16	
	For >25 To 50, Add	770.32	
	For >50 To 100, Add	385.16	
	For >500 To 1,000, Deduct	-152.14	
	For >1,000 To 2,000, Deduct	-229.89	
	For >2,000 To 5,000, Deduct	-374.57	
	For >5,000, Deduct	-622.03	
33 01 30 72-0327	LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,288.80	
	For Vinlyester Resin, Add	2,192.84	
	For Epoxy Resin, Add	258.44	
	For Up To >10, Add	2,034.83	
	For >10 To 25, Add	1,173.58	
	For >25 To 50, Add	860.78	
	For >50 To 100, Add	430.39	
	For >500 To 1,000, Deduct	-168.34	
	For >1,000 To 2,000, Deduct	-254.47	
	For >2,000 To 5,000, Deduct	-414.96	
	For >5,000, Deduct	-688.99	
33 01 30 72-0328	LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,595.46	
	For Vinlyester Resin, Add	2,397.31	
	For Epoxy Resin, Add	282.54	
	For Up To >10, Add	2,224.56	
	For >10 To 25, Add	1,283.01	
	For >25 To 50, Add	941.04	
	For >50 To 100, Add	470.52	
	For >500 To 1,000, Deduct	-184.04	
	For >1,000 To 2,000, Deduct	-278.20	
	For >2,000 To 5,000, Deduct	-453.65	
	For >5,000, Deduct	-753.24	
33 01 30 72-0329	LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,902.11	
	For Vinlyester Resin, Add	2,601.78	
	For Epoxy Resin, Add	306.64	
	For Up To >10, Add	2,414.26	
	For >10 To 25, Add	1,392.41	
	For >25 To 50, Add	1,021.29	
	For >50 To 100, Add	510.64	
	For >500 To 1,000, Deduct	-199.74	
	For >1,000 To 2,000, Deduct	-301.92	
	For >2,000 To 5,000, Deduct	-492.34	
	For >5,000, Deduct	-817.48	
33 01 30 72-0330	LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,208.77	
	For Vinlyester Resin, Add	2,806.26	
	For Epoxy Resin, Add	330.74	
	For Up To >10, Add	2,603.96	
	For >10 To 25, Add	1,501.81	
	For >25 To 50, Add	1,101.53	
	For >50 To 100, Add	550.77	
	For >500 To 1,000, Deduct	-215.43	
	For >1,000 To 2,000, Deduct	-325.65	
	For >2,000 To 5,000, Deduct	-531.03	
	For >5,000, Deduct	-881.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,515.43	
For Vinylster Resin, Add	3,010.73	
For Epoxy Resin, Add	354.84	
For Up To >10, Add	2,793.69	
For >10 To 25, Add	1,611.24	
For >25 To 50, Add	1,181.79	
For >50 To 100, Add	590.90	
For >500 To 1,000, Deduct	-231.13	
For >1,000 To 2,000, Deduct	-349.38	
For >2,000 To 5,000, Deduct	-569.72	
For >5,000, Deduct	-945.96	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,822.08	
For Vinylster Resin, Add	3,215.20	
For Epoxy Resin, Add	378.93	
For Up To >10, Add	2,983.39	
For >10 To 25, Add	1,720.64	
For >25 To 50, Add	1,262.04	
For >50 To 100, Add	631.02	
For >500 To 1,000, Deduct	-246.83	
For >1,000 To 2,000, Deduct	-373.10	
For >2,000 To 5,000, Deduct	-608.41	
For >5,000, Deduct	-1,010.20	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,128.74	
For Vinylster Resin, Add	3,419.67	
For Epoxy Resin, Add	403.03	
For Up To >10, Add	3,173.12	
For >10 To 25, Add	1,830.06	
For >25 To 50, Add	1,342.30	
For >50 To 100, Add	671.15	
For >500 To 1,000, Deduct	-262.52	
For >1,000 To 2,000, Deduct	-396.83	
For >2,000 To 5,000, Deduct	-647.10	
For >5,000, Deduct	-1,074.45	
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,435.41	
For Vinylster Resin, Add	3,624.15	
For Epoxy Resin, Add	427.13	
For Up To >10, Add	3,362.86	
For >10 To 25, Add	1,939.49	
For >25 To 50, Add	1,422.56	
For >50 To 100, Add	711.28	
For >500 To 1,000, Deduct	-278.22	
For >1,000 To 2,000, Deduct	-420.56	
For >2,000 To 5,000, Deduct	-685.80	
For >5,000, Deduct	-1,138.69	
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,742.06	
For Vinylster Resin, Add	3,828.62	
For Epoxy Resin, Add	451.23	
For Up To >10, Add	3,552.56	
For >10 To 25, Add	2,048.89	
For >25 To 50, Add	1,502.81	
For >50 To 100, Add	751.40	
For >500 To 1,000, Deduct	-293.92	
For >1,000 To 2,000, Deduct	-444.29	
For >2,000 To 5,000, Deduct	-724.49	
For >5,000, Deduct	-1,202.93	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,048.72	
For Vinylster Resin, Add	4,033.09	
For Epoxy Resin, Add	475.33	
For Up To >10, Add	3,742.29	
For >10 To 25, Add	2,158.31	
For >25 To 50, Add	1,583.07	
For >50 To 100, Add	791.53	
For >500 To 1,000, Deduct	-309.62	
For >1,000 To 2,000, Deduct	-468.01	
For >2,000 To 5,000, Deduct	-763.18	
For >5,000, Deduct	-1,267.18	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	558.02	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	603.27	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	640.97	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	678.68	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	716.38	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	597.28	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....	685.49	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....	773.69	

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CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 74-0013	Grout Lateral Service - Robotic Trowel Application <small>(33 01 30 74-0008)</small>		
33 01 30 74-0014	EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....		650.41
33 01 30 74-0015	EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....		703.55
33 01 30 74-0016	Lateral T-Liner <small>(33 01 30 74-0001)</small>		
	Note: As manufactured by LMK.		
33 01 30 74-0017	EA Up To 4" Lateral T-Liner.....		792.48
33 01 30 74-0018	EA 6" Lateral T-Liner.....		888.63
33 01 30 74-0019	EA 8" Lateral T-Liner.....		1,033.18
33 01 30 74-0020	Lining Lateral Pipe <small>(33 01 30 74-0001)</small>		
33 01 30 74-0021	Lining Lateral Pipe <small>(33 01 30 74-0020)</small>		
33 01 30 74-0022	LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....		40.64
	For 7.5mm, Add		4.56
	For 9 mm, Add		9.02
33 01 30 74-0023	LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....		48.63
	For 7.5mm, Add		6.21
	For 9 mm, Add		12.28
33 01 30 74-0024	LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....		63.56
	For 7.5mm, Add		9.51
	For 9 mm, Add		18.81
33 01 30 74-0025	Lining Manhole Drop <small>(33 01 30 74-0020)</small>		
33 01 30 74-0026	EA Manhole Drop Section Lining.....		864.64
33 01 30 79	Fold-and-Form Pipe Lining <small>(33 01 30)</small>		
33 01 30 79-0001	Form and Fold Relining Underground Pipelines <small>(33 01 30 79)</small>		
	Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002	Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion <small>(33 01 30 79-0001)</small>		
33 01 30 79-0003	EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....		5,441.40
33 01 30 79-0004	EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines.....		2,176.55
33 01 30 79-0005	Form And Fold Polyethylene (PE) Pipeliner <small>(33 01 30 79-0001)</small>		
33 01 30 79-0006	LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		59.88
	For DR 26 Pipe Liner, Add		12.06
	For Up To 75, Add		27.13
	For >75 To 150, Add		13.57
	For >500 To 1,000, Deduct		-0.87
	For >1,000 To 2,000, Deduct		-1.75
	For >2,000, Deduct		-3.50
33 01 30 79-0007	LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		78.06
	For DR 26 Pipe Liner, Add		16.38
	For DR 35 Pipe Liner, Deduct		-8.19
	For Up To 75, Add		31.93
	For >75 To 150, Add		15.96
	For >500 To 1,000, Deduct		-0.94
	For >1,000 To 2,000, Deduct		-1.88
	For >2,000, Deduct		-3.77
33 01 30 79-0008	LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		80.33
	For DR 26 Pipe Liner, Add		16.68
	For DR 35 Pipe Liner, Deduct		-8.34
	For Up To 75, Add		33.76
	For >75 To 150, Add		16.88
	For >500 To 1,000, Deduct		-1.02
	For >1,000 To 2,000, Deduct		-2.04
	For >2,000, Deduct		-4.08
33 01 30 79-0009	LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		114.93
	For DR 26 Pipe Liner, Add		25.02
	For DR 35 Pipe Liner, Deduct		-12.51
	For DR 41 Pipe Liner, Deduct		-25.02
	For Up To 75, Add		42.28
	For >75 To 150, Add		21.14
	For >500 To 1,000, Deduct		-1.11
	For >1,000 To 2,000, Deduct		-2.23
	For >2,000, Deduct		-4.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	162.81	
<i>For DR 26 Pipe Liner, Add</i>	36.62	
<i>For DR 35 Pipe Liner, Deduct</i>	-18.31	
<i>For DR 41 Pipe Liner, Deduct</i>	-36.62	
<i>For Up To 75, Add</i>	53.78	
<i>For >75 To 150, Add</i>	26.89	
<i>For >500 To 1,000, Deduct</i>	-1.22	
<i>For >1,000 To 2,000, Deduct</i>	-2.45	
<i>For >2,000, Deduct</i>	-4.90	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	224.79	
<i>For DR 35 Pipe Liner, Deduct</i>	-25.78	
<i>For DR 41 Pipe Liner, Deduct</i>	-51.56	
<i>For Up To 75, Add</i>	69.07	
<i>For >75 To 150, Add</i>	34.54	
<i>For >500 To 1,000, Deduct</i>	-1.39	
<i>For >1,000 To 2,000, Deduct</i>	-2.78	
<i>For >2,000, Deduct</i>	-5.57	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	319.98	
<i>For DR 41 Pipe Liner, Deduct</i>	-29.91	
<i>For DR 50 Pipe Liner, Deduct</i>	-59.81	
<i>For Up To 75, Add</i>	91.21	
<i>For >75 To 150, Add</i>	45.60	
<i>For >500 To 1,000, Deduct</i>	-1.57	
<i>For >1,000 To 2,000, Deduct</i>	-3.14	
<i>For >2,000, Deduct</i>	-6.28	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	362.36	
<i>For DR 50 Pipe Liner, Deduct</i>	-50.95	
<i>For DR 55 Pipe Liner, Deduct</i>	-84.92	
<i>For Up To 75, Add</i>	101.94	
<i>For >75 To 150, Add</i>	50.97	
<i>For >500 To 1,000, Deduct</i>	-1.70	
<i>For >1,000 To 2,000, Deduct</i>	-3.40	
<i>For >2,000, Deduct</i>	-6.80	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	443.27	
<i>For DR 60 Pipe Liner, Deduct</i>	-62.78	
<i>For Up To 75, Add</i>	120.80	
<i>For >75 To 150, Add</i>	60.40	
<i>For >500 To 1,000, Deduct</i>	-1.85	
<i>For >1,000 To 2,000, Deduct</i>	-3.71	
<i>For >2,000, Deduct</i>	-7.42	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner <small>(33 01 30 79-0001)</small>	64.43	
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	13.19	
<i>For DR 26 Pipe Liner, Add</i>	28.04	
<i>For Up To 75, Add</i>	14.02	
<i>For >75 To 150, Add</i>	-0.87	
<i>For >500 To 1,000, Deduct</i>	-1.75	
<i>For >1,000 To 2,000, Deduct</i>	-3.50	
<i>For >2,000, Deduct</i>		
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	78.06	
<i>For DR 26 Pipe Liner, Add</i>	16.38	
<i>For DR 35 Pipe Liner, Deduct</i>	-8.19	
<i>For Up To 75, Add</i>	31.93	
<i>For >75 To 150, Add</i>	15.96	
<i>For >500 To 1,000, Deduct</i>	-0.94	
<i>For >1,000 To 2,000, Deduct</i>	-1.88	
<i>For >2,000, Deduct</i>	-3.77	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	86.40	
<i>For DR 26 Pipe Liner, Add</i>	18.20	
<i>For DR 35 Pipe Liner, Deduct</i>	-9.10	
<i>For Up To 75, Add</i>	34.97	
<i>For >75 To 150, Add</i>	17.49	
<i>For >500 To 1,000, Deduct</i>	-1.02	
<i>For >1,000 To 2,000, Deduct</i>	-2.04	
<i>For >2,000, Deduct</i>	-4.08	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	124.03	
<i>For DR 26 Pipe Liner, Add</i>	27.30	
<i>For DR 35 Pipe Liner, Deduct</i>	-13.65	
<i>For DR 41 Pipe Liner, Deduct</i>	-27.30	
<i>For Up To 75, Add</i>	44.10	
<i>For >75 To 150, Add</i>	22.05	
<i>For >500 To 1,000, Deduct</i>	-1.11	
<i>For >1,000 To 2,000, Deduct</i>	-2.23	
<i>For >2,000, Deduct</i>	-4.45	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	176.46	
<i>For DR 26 Pipe Liner, Add</i>	40.04	
<i>For DR 35 Pipe Liner, Deduct</i>	-20.02	
<i>For DR 41 Pipe Liner, Deduct</i>	-40.04	
<i>For Up To 75, Add</i>	56.51	
<i>For >75 To 150, Add</i>	28.25	
<i>For >500 To 1,000, Deduct</i>	-1.22	
<i>For >1,000 To 2,000, Deduct</i>	-2.45	
<i>For >2,000, Deduct</i>	-4.90	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	244.20	
For DR 35 Pipe Liner, Deduct	-28.21	
For DR 41 Pipe Liner, Deduct	-56.41	
For Up To 75, Add	72.96	
For >75 To 150, Add	36.48	
For >500 To 1,000, Deduct	-1.39	
For >1,000 To 2,000, Deduct	-2.78	
For >2,000, Deduct	-5.57	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	348.49	
For DR 41 Pipe Liner, Deduct	-32.76	
For DR 50 Pipe Liner, Deduct	-65.51	
For Up To 75, Add	96.91	
For >75 To 150, Add	48.45	
For >500 To 1,000, Deduct	-1.57	
For >1,000 To 2,000, Deduct	-3.14	
For >2,000, Deduct	-6.28	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	393.90	
For DR 50 Pipe Liner, Deduct	-55.68	
For DR 55 Pipe Liner, Deduct	-92.81	
For Up To 75, Add	108.25	
For >75 To 150, Add	54.13	
For >500 To 1,000, Deduct	-1.70	
For >1,000 To 2,000, Deduct	-3.40	
For >2,000, Deduct	-6.80	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	483.31	
For DR 60 Pipe Liner, Deduct	-68.79	
For Up To 75, Add	128.81	
For >75 To 150, Add	64.41	
For >500 To 1,000, Deduct	-1.85	
For >1,000 To 2,000, Deduct	-3.71	
For >2,000, Deduct	-7.42	
33 01 30 81 Manhole Rehabilitation (33 01 30)		
33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)		
Note: Work is in confined spaces.		
33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)		
33 01 30 81-0003 EA Inspect Manhole	193.19	
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	14,901.85	
Note: For internal inspection and repair of water mains.		
33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'.....	21,120.90	
Note: For internal inspection and repair of water mains		
33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)		
33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)		
Note: Cretex.		
33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	573.30	
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	604.28	
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	619.78	
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	712.74	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	805.71	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	898.67	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,084.61	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)		
Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	836.71	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	883.19	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	945.17	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	1,022.63	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	1,131.10	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	1,255.05	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	1,410.00	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	57.12	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	76.94	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	53.89	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	73.11	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	18.32	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	41.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0031 Manhole Joint Restoration <small>(33 01 30 81-0001)</small>		
<i>Note: Includes drilling holes at joints, fill joints with grout.</i>		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,413.38	
<i>Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.</i>		
<i>For Grouting Each Additional Manhole Joint Section, Add</i>		235.60
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,817.31	
<i>Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.</i>		
<i>For Grouting Each Additional Manhole Joint Section, Add</i>		262.36
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,217.83	
<i>Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.</i>		
<i>For Grouting Each Additional Manhole Joint Section, Add</i>		289.13
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,823.25	
<i>Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.</i>		
<i>For Grouting Each Additional Manhole Joint Section, Add</i>		302.51
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	4,426.97	
<i>Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.</i>		
<i>For Grouting Each Additional Manhole Joint Section, Add</i>		315.89
33 01 30 81-0037 Step Installation In Existing Manholes <small>(33 01 30 81-0001)</small>		
<i>Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.</i>		
33 01 30 81-0038 EA Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	143.43	22.99
33 01 30 81-0039 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	155.89	22.99
33 01 30 81-0040 EA Drill And Grout Galvanized Steel Manhole Step.....	121.35	22.99
33 01 30 81-0041 EA Bolt On Galvanized Steel Manhole Step.....	144.19	22.99
33 01 30 81-0042 EA Drill And Grout Aluminum Manhole Step.....	152.19	22.99
33 01 30 81-0043 EA Drill And Insert Polypropylene Manhole Step.....	71.23	18.40
33 01 30 81-0044 Invert Restoration <small>(33 01 30 81-0001)</small>		
<i>Note: Includes removal of existing defective material and installation of new material.</i>		
33 01 30 81-0045 Concrete Invert Restoration <small>(33 01 30 81-0044)</small>		
33 01 30 81-0046 EA 2' Diameter, Concrete Invert Restoration.....	374.44	
33 01 30 81-0047 EA 3' Diameter, Concrete Invert Restoration.....	422.73	
33 01 30 81-0048 EA 4' Diameter, Concrete Invert Restoration.....	471.03	
33 01 30 81-0049 EA 5' Diameter, Concrete Invert Restoration.....	519.33	
33 01 30 81-0050 EA 6' Diameter, Concrete Invert Restoration.....	664.22	
33 01 30 81-0051 SF Square Or Rectangular, Concrete Invert Restoration.....	37.45	
33 01 30 81-0052 Brick Invert Restoration <small>(33 01 30 81-0044)</small>		
33 01 30 81-0053 EA 2' Diameter, Brick Invert Restoration.....	635.67	
33 01 30 81-0054 EA 3' Diameter, Brick Invert Restoration.....	683.97	
33 01 30 81-0055 EA 4' Diameter, Brick Invert Restoration.....	732.27	
33 01 30 81-0056 EA 5' Diameter, Brick Invert Restoration.....	780.56	
33 01 30 81-0057 EA 6' Diameter, Brick Invert Restoration.....	828.86	
33 01 30 81-0058 SF Square Or Rectangular, Brick Invert Restoration.....	52.84	
33 01 30 81-0059 Repair In-Kind Of Drainage Structures <small>(33 01 30 81)</small>		
<i>Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.</i>		
33 01 30 81-0060 VLF 2' Diameter, Repair In-Kind Drainage Structure.....	828.66	
33 01 30 81-0061 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,243.00	
33 01 30 81-0062 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,657.44	
33 01 30 81-0063 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	2,071.66	
33 01 30 81-0064 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,485.99	
33 01 30 81-0065 VLF 2' x 2', Repair In-Kind Drainage Structure.....	1,055.62	
33 01 30 81-0066 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,319.53	
33 01 30 81-0067 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,583.44	
33 01 30 81-0068 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,847.34	
33 01 30 81-0069 VLF 4' x 4', Repair In-Kind Drainage Structure.....	2,111.25	
33 01 30 81-0070 VLF 4' x 5', Repair In-Kind Drainage Structure.....	2,375.15	
33 01 30 81-0071 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,639.06	
33 01 30 81-0072 VLF 4' x 8', Repair In-Kind Drainage Structure.....	3,166.87	
33 01 30 81-0073 VLF >32 GSF, Repair In-Kind Drainage Structure.....	3,694.68	
33 01 30 82 Epoxy Lining for Concrete Manholes <small>(33 01 30)</small>		
33 01 30 82-0001 Epoxy Manhole Restoration, Interior <small>(33 01 30 82)</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	362.53	
For 80 Mil Material, Add	43.06	
For 100 Mil Material, Add	86.11	
For 125 Mil Material, Add	134.29	
For 150 Mil Material, Add	182.46	
For 200 Mil Material, Add	263.76	
For 2 To 5 Manholes, Deduct	-25.65	
For 6 To 10 Manholes, Deduct	-42.25	
For >10 Manholes, Deduct	-84.49	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	439.75	
For 80 Mil Material, Add	51.51	
For 100 Mil Material, Add	103.02	
For 125 Mil Material, Add	160.50	
For 150 Mil Material, Add	217.99	
For 200 Mil Material, Add	314.56	
For 2 To 5 Manholes, Deduct	-31.19	
For 6 To 10 Manholes, Deduct	-51.38	
For >10 Manholes, Deduct	-102.77	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	483.38	
For 80 Mil Material, Add	57.41	
For 100 Mil Material, Add	114.82	
For 125 Mil Material, Add	179.05	
For 150 Mil Material, Add	243.28	
For 200 Mil Material, Add	351.67	
For 2 To 5 Manholes, Deduct	-34.21	
For 6 To 10 Manholes, Deduct	-56.33	
For >10 Manholes, Deduct	-112.66	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	604.30	
For 80 Mil Material, Add	71.78	
For 100 Mil Material, Add	143.57	
For 125 Mil Material, Add	223.89	
For 150 Mil Material, Add	304.21	
For 200 Mil Material, Add	439.75	
For 2 To 5 Manholes, Deduct	-42.76	
For 6 To 10 Manholes, Deduct	-70.42	
For >10 Manholes, Deduct	-140.83	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	725.14	
For 80 Mil Material, Add	86.13	
For 100 Mil Material, Add	172.27	
For 125 Mil Material, Add	268.65	
For 150 Mil Material, Add	365.02	
For 200 Mil Material, Add	527.66	
For 2 To 5 Manholes, Deduct	-51.31	
For 6 To 10 Manholes, Deduct	-84.50	
For >10 Manholes, Deduct	-169.00	
33 01 30 83 Lining for Concrete Manholes (33 01 30)		
33 01 30 83-0001 Manhole Lining (33 01 30 83)		
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002 Cementitious Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior	152.90	
For Each Additional 1/2" Thick Material, Add	35.90	
For 2 To 5 Manholes, Deduct	-10.82	
For 6 To 10 Manholes, Deduct	-17.82	
For >10 Manholes, Deduct	-35.65	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	177.27	
For Each Additional 1/2" Thick Material, Add	41.77	
For 2 To 5 Manholes, Deduct	-12.54	
For 6 To 10 Manholes, Deduct	-20.66	
For >10 Manholes, Deduct	-41.31	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior	201.63	
For Each Additional 1/2" Thick Material, Add	47.64	
For 2 To 5 Manholes, Deduct	-14.26	
For 6 To 10 Manholes, Deduct	-23.49	
For >10 Manholes, Deduct	-46.97	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior	237.18	
For Each Additional 1/2" Thick Material, Add	58.22	
For 2 To 5 Manholes, Deduct	-16.71	
For 6 To 10 Manholes, Deduct	-27.49	
For >10 Manholes, Deduct	-54.98	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior	258.95	
For Each Additional 1/2" Thick Material, Add	67.10	
For 2 To 5 Manholes, Deduct	-18.13	
For 6 To 10 Manholes, Deduct	-29.79	
For >10 Manholes, Deduct	-59.59	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	322.55	
<i>For 80 Mil Material, Add</i>	29.73	
<i>For 100 Mil Material, Add</i>	59.46	
<i>For 125 Mil Material, Add</i>	90.98	
<i>For 150 Mil Material, Add</i>	122.49	
<i>For 200 Mil Material, Add</i>	170.47	
<i>For 2 To 5 Manholes, Deduct</i>	-23.66	
<i>For 6 To 10 Manholes, Deduct</i>	-39.25	
<i>For >10 Manholes, Deduct</i>	-78.49	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	393.05	
<i>For 80 Mil Material, Add</i>	35.94	
<i>For 100 Mil Material, Add</i>	71.88	
<i>For 125 Mil Material, Add</i>	109.91	
<i>For 150 Mil Material, Add</i>	147.94	
<i>For 200 Mil Material, Add</i>	205.59	
<i>For 2 To 5 Manholes, Deduct</i>	-28.85	
<i>For 6 To 10 Manholes, Deduct</i>	-47.88	
<i>For >10 Manholes, Deduct</i>	-95.76	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	430.08	
<i>For 80 Mil Material, Add</i>	39.64	
<i>For 100 Mil Material, Add</i>	79.28	
<i>For 125 Mil Material, Add</i>	121.31	
<i>For 150 Mil Material, Add</i>	163.33	
<i>For 200 Mil Material, Add</i>	227.31	
<i>For 2 To 5 Manholes, Deduct</i>	-31.54	
<i>For 6 To 10 Manholes, Deduct</i>	-52.33	
<i>For >10 Manholes, Deduct</i>	-104.66	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	537.61	
<i>For 80 Mil Material, Add</i>	49.55	
<i>For 100 Mil Material, Add</i>	99.11	
<i>For 125 Mil Material, Add</i>	151.64	
<i>For 150 Mil Material, Add</i>	204.17	
<i>For 200 Mil Material, Add</i>	284.14	
<i>For 2 To 5 Manholes, Deduct</i>	-39.43	
<i>For 6 To 10 Manholes, Deduct</i>	-65.41	
<i>For >10 Manholes, Deduct</i>	-130.83	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	645.13	
<i>For 80 Mil Material, Add</i>	59.46	
<i>For 100 Mil Material, Add</i>	118.93	
<i>For 125 Mil Material, Add</i>	181.97	
<i>For 150 Mil Material, Add</i>	245.01	
<i>For 200 Mil Material, Add</i>	340.97	
<i>For 2 To 5 Manholes, Deduct</i>	-47.31	
<i>For 6 To 10 Manholes, Deduct</i>	-78.50	
<i>For >10 Manholes, Deduct</i>	-156.99	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	568.67	
<i>For 2 To 5 Manholes, Deduct</i>	-33.02	
<i>For 6 To 10 Manholes, Deduct</i>	-51.83	
<i>For >10 Manholes, Deduct</i>	-103.67	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	696.42	
<i>For 2 To 5 Manholes, Deduct</i>	-40.43	
<i>For 6 To 10 Manholes, Deduct</i>	-63.45	
<i>For >10 Manholes, Deduct</i>	-126.91	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	820.83	
<i>For 2 To 5 Manholes, Deduct</i>	-47.16	
<i>For 6 To 10 Manholes, Deduct</i>	-73.81	
<i>For >10 Manholes, Deduct</i>	-147.61	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	1,029.38	
<i>For 2 To 5 Manholes, Deduct</i>	-59.12	
<i>For 6 To 10 Manholes, Deduct</i>	-92.51	
<i>For >10 Manholes, Deduct</i>	-185.02	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	1,237.93	
<i>For 2 To 5 Manholes, Deduct</i>	-71.08	
<i>For 6 To 10 Manholes, Deduct</i>	-111.21	
<i>For >10 Manholes, Deduct</i>	-222.42	
33 01 30 86 Manhole Rim Adjustment <small>(33 01 30)</small>		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers <small>(33 01 30 86)</small>		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers <small>(33 01 30 86-0001)</small>		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	410.91	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	463.29	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	510.74	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	564.56	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	608.01	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <small>(33 01 30 86-0001)</small>		
33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	486.15	
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	530.37	
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	586.21	
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	640.02	
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	691.84	
33 01 30 86-0014		Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers <small>(33 01 30 86-0001)</small>		
33 01 30 86-0015	EA	Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	556.24	
33 01 30 86-0016	EA	>4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	588.04	
33 01 30 86-0017	EA	>5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	622.05	
33 01 30 86-0018		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers <small>(33 01 30 86-0001)</small>		
33 01 30 86-0019	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	678.05	
33 01 30 86-0020	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	738.07	
33 01 30 86-0021	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	799.00	
33 01 30 86-0022	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	847.05	
33 01 30 86-0023	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	921.22	
33 01 30 86-0024	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	988.32	
33 01 30 86-0025	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,053.87	
33 01 30 86-0026	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,120.75	
33 01 30 86-0027		>12" Rise, Solid Manhole Risers <small>(33 01 30 86)</small>		
33 01 30 86-0028		Precast Concrete Manhole Riser <small>(33 01 30 86-0027)</small>		
33 01 30 86-0029	VLF	Up To 26" Diameter Precast Concrete Manhole Riser.....	108.37	
33 01 30 86-0030	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser.....	129.71	
33 01 30 86-0031	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser.....	187.64	
33 01 30 86-0032	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser.....	382.84	
33 01 30 86-0033	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser.....	560.76	
33 01 30 89		By-Pass Piping and Pumping of Water and Sewer Utilities <small>(33 01 30)</small>		
33 01 30 89-0001		Set-Up By-Pass Pumping Unit <small>(33 01 30 89)</small>		
		Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1074 for pump rental, 01 22 23 00-1107 for suction hose, 01 22 23 00-1126 for discharge hose.		
33 01 30 89-0002	EA	Set-up By-Pass Pumping Unit.....	2,035.31	
33 01 30 89-0003	EA	Re-Set Up/Move By-Pass Pumping Unit.....	1,017.66	
33 01 30 89-0004		By-Pass Pumping <small>(33 01 30 89)</small>		
		Note: Excludes pump rental. See CSI section 01 22 23 00-1074 for pump rental.		
33 01 30 89-0005	DAY	Maintain And Operate By-Pass Pumping Unit.....	508.83	
33 01 30 89-0006	WK	Maintain And Operate By-Pass Pumping Unit.....	2,544.15	
33 01 30 89-0007	MO	Maintain And Operate By-Pass Pumping Unit.....	10,685.40	
33 01 30 89-0008		Temporary Bypass And Service Lines <small>(33 01 30 89)</small>		
		Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009		Temporary Water Service Lines <small>(33 01 30 89-0008)</small>		
		Note: Laid on ground, includes fittings, connection to building water service, and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings.....	3.15	
		Note: Includes removal after use.		
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings.....	4.00	
		Note: Includes removal after use.		
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings.....	4.67	
		Note: Includes removal after use.		
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings.....	5.60	
		Note: Includes removal after use.		
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings.....	6.90	
		Note: Includes removal after use.		
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant.....	341.66	
		Note: Includes removal after use.		
33 01 30 89-0016		Temporary Bypass Water Main Lines <small>(33 01 30 89-0008)</small>		
		Note: Laid on ground, includes fittings, connections to mains and chlorination prior to each use. Remove after use.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0017 LF 2" Temporary Bypass Water Main Pipe With Fittings	7.08	
Note: Includes removal after use.		
<i>For >500 To 1,000, Deduct</i>	-0.47	
<i>For >1,000 To 5,000, Deduct</i>	-0.95	
<i>For >5,000, Deduct</i>	-1.58	
33 01 30 89-0018 LF 4" Temporary Bypass Water Main Pipe With Fittings	11.40	
Note: Includes removal after use.		
<i>For >500 To 1,000, Deduct</i>	-0.61	
<i>For >1,000 To 5,000, Deduct</i>	-1.22	
<i>For >5,000, Deduct</i>	-2.03	
33 01 30 89-0019 LF 6" Temporary Bypass Water Main Pipe With Fittings	16.23	
Note: Includes removal after use.		
<i>For >500 To 1,000, Deduct</i>	-0.71	
<i>For >1,000 To 5,000, Deduct</i>	-1.42	
<i>For >5,000, Deduct</i>	-2.37	
33 01 30 89-0020 LF 8" Temporary Bypass Water Main Pipe With Fittings	20.45	
Note: Includes removal after use.		
<i>For >500 To 1,000, Deduct</i>	-0.85	
<i>For >1,000 To 5,000, Deduct</i>	-1.71	
<i>For >5,000, Deduct</i>	-2.85	
33 01 30 89-0021 Piping Protection For Temporary Water Line <small>(33 01 30 89-0008)</small>		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe	3.35	
Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.		
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line <small>(33 01 30 89-0008)</small>		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe	17.45	
33 01 30 89-0025 Temporary By-Pass Plug <small>(33 01 30 89)</small>		
33 01 30 89-0026 EA 8" To 16" Temporary By-Pass Plug	832.84	
33 01 30 89-0027 EA 12" To 24" Temporary By-Pass Plug	1,305.22	
33 01 30 89-0028 EA 15" To 30" Temporary By-Pass Plug	2,138.39	
33 01 30 89-0029 EA 20" To 40" Temporary By-Pass Plug	2,625.30	
33 01 30 89-0030 EA 24" To 28" Temporary By-Pass Plug	3,523.71	

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)

33 01 34 13 Septic Tank Solids Removal (33 01 34)

33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)

33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose	0.71
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33 01 40 Operation and Maintenance of Stormwater Utilities (33 01)

33 01 40 00-0001 Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System (33 01 40)

Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0024 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.

33 01 40 00-0002 LF 6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	26.19
<i>For Profile Wall (Corrugated), Deduct</i>	-4.16
33 01 40 00-0003 LF 8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	39.30
<i>For Profile Wall (Corrugated), Deduct</i>	-6.51
33 01 40 00-0004 LF 10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	36.74
<i>For Profile Wall (Corrugated), Deduct</i>	-5.77
33 01 40 00-0005 LF 12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	48.58
<i>For Profile Wall (Corrugated), Deduct</i>	-7.80
33 01 40 00-0006 LF 14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	55.51
<i>For Profile Wall (Corrugated), Deduct</i>	-8.74
33 01 40 00-0007 LF 16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	67.02
<i>For Profile Wall (Corrugated), Deduct</i>	-10.88
33 01 40 00-0008 LF 18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	84.25
<i>For Profile Wall (Corrugated), Deduct</i>	-13.70
33 01 40 00-0009 LF 20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	103.45
<i>For Profile Wall (Corrugated), Deduct</i>	-17.09
33 01 40 00-0010 LF 22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	119.37
<i>For Profile Wall (Corrugated), Deduct</i>	-19.82
33 01 40 00-0011 LF 24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	136.63
<i>For Profile Wall (Corrugated), Deduct</i>	-22.82
33 01 40 00-0012 LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	156.01
<i>For Profile Wall (Corrugated), Deduct</i>	-26.25
33 01 40 00-0013 LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	176.05
<i>For Profile Wall (Corrugated), Deduct</i>	-29.81
33 01 40 00-0014 LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	204.04
<i>For Profile Wall (Corrugated), Deduct</i>	-34.95
33 01 40 00-0015 LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	233.39
<i>For Profile Wall (Corrugated), Deduct</i>	-40.37

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 40 Operation and Maintenance of Stormwater Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 40 00-0016	LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	258.04	
	<i>For Profile Wall (Corrugated), Deduct</i>	-44.85	
33 01 40 00-0017	LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	282.67	
	<i>For Profile Wall (Corrugated), Deduct</i>	-49.33	
33 01 40 00-0018	LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	323.31	
	<i>For Profile Wall (Corrugated), Deduct</i>	-57.01	
33 01 40 00-0019	LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	363.93	
	<i>For Profile Wall (Corrugated), Deduct</i>	-64.68	
33 01 40 00-0020	LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	468.78	
	<i>For Profile Wall (Corrugated), Deduct</i>	-85.20	
33 01 40 00-0021	LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	572.28	
	<i>For Profile Wall (Corrugated), Deduct</i>	-105.45	
33 01 40 00-0022	LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	634.19	
	<i>For Profile Wall (Corrugated), Deduct</i>	-117.38	
33 01 40 00-0023	LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	695.54	
	<i>For Profile Wall (Corrugated), Deduct</i>	-129.20	
33 01 40 00-0024	LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	758.06	
	<i>For Profile Wall (Corrugated), Deduct</i>	-141.25	
33 01 40 00-0025	LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	851.28	
	<i>For Profile Wall (Corrugated), Deduct</i>	-159.22	
33 01 40 00-0026	LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	903.85	
	<i>For Profile Wall (Corrugated), Deduct</i>	-168.84	
33 01 40 00-0027	LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	960.91	
	<i>For Profile Wall (Corrugated), Deduct</i>	-179.12	
33 01 40 00-0028	LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,043.04	
	<i>For Profile Wall (Corrugated), Deduct</i>	-194.65	
33 01 40 00-0029	LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,067.46	
	<i>For Profile Wall (Corrugated), Deduct</i>	-198.63	
33 01 40 00-0030	LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	1,081.74	
	<i>For Profile Wall (Corrugated), Deduct</i>	-200.36	
33 01 40 00-0031	LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	137.86	
	<i>For Profile Wall (Corrugated), Deduct</i>	-23.02	
33 01 40 00-0032	LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	154.43	
	<i>For Profile Wall (Corrugated), Deduct</i>	-25.49	
33 01 40 00-0033	LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	170.35	
33 01 40 00-0034	LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	196.70	
	<i>For Profile Wall (Corrugated), Deduct</i>	-32.75	
33 01 40 00-0035	LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	215.80	
	<i>For Profile Wall (Corrugated), Deduct</i>	-35.97	
33 01 40 00-0036	LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	242.07	
	<i>For Profile Wall (Corrugated), Deduct</i>	-40.63	
33 01 40 00-0037	LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	269.78	
	<i>For Profile Wall (Corrugated), Deduct</i>	-45.57	
33 01 40 00-0038	LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	323.30	
	<i>For Profile Wall (Corrugated), Deduct</i>	-55.08	
33 01 40 00-0039	LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	363.32	
33 01 40 00-0040	LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	402.32	
	<i>For Profile Wall (Corrugated), Deduct</i>	-69.68	
33 01 40 00-0041	LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	498.15	
	<i>For Profile Wall (Corrugated), Deduct</i>	-88.25	
33 01 40 00-0042	LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	598.15	
	<i>For Profile Wall (Corrugated), Deduct</i>	-107.65	
33 01 40 00-0043	LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	765.53	
	<i>For Profile Wall (Corrugated), Deduct</i>	-141.13	
33 01 40 00-0044	LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	774.50	
	<i>For Profile Wall (Corrugated), Deduct</i>	-141.13	
33 01 40 00-0045	LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	774.50	
	<i>For Profile Wall (Corrugated), Deduct</i>	-141.13	

33 01 40 00-0046 Pumped Grouting For Slip-Lining Systems (33 01 40)

Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.

33 01 40 00-0047	CY Flowable Fill Grout, For Pipe Relines	600.01	
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33 01 70 Operation and Maintenance of Electrical Utilities (33 01)**33 01 70 51 Electrical Utility Visual Inspection (33 01 70)**

33 01 70 51-0001 Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)

33 01 70 51-0002 Video Camera Set-up (33 01 70 51-0001)

33 01 70 51-0003	EA Up To 12" Diameter, Initial Set Up For Video Inspection, Gas Pipe Or Electrical Duct	279.85	
33 01 70 51-0004	EA >12" To 48" Diameter, Initial Set Up For Video Inspection, Gas Pipe	314.83	
33 01 70 51-0005	EA Up To 12" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe Or Electrical Duct	69.96	
33 01 70 51-0006	EA >12" To 48" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe	104.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 51-0007 Video Camera Inspection Of Gas Pipe Or Electrical Duct <small>(33 01 70 51-0001)</small>		
33 01 70 51-0008 LF Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	1.07	
<i>For >1,000 To 5,000, Deduct</i>	-0.05	
<i>For >5,000, Deduct</i>	-0.11	
33 01 70 51-0009 LF >12" To 48" Diameter, Video Inspection, Gas Pipe	1.66	
<i>For >1,000 To 5,000, Deduct</i>	-0.08	
<i>For >5,000, Deduct</i>	-0.17	
33 01 70 72 Cured-in-Place Conduit Lining <small>(33 01 70)</small>		
33 01 70 72-0001 Lining Conduit With Cured In-Place (CIP) Liner <small>(33 01 70 72)</small>		
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.		
33 01 70 72-0002 2mm Thick Cured In-Place Conduit Lining <small>(33 01 70 72-0001)</small>		
33 01 70 72-0003 LF 1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	7.65	
<i>For Up To >10, Add</i>	14.70	
<i>For >10 To 25, Add</i>	11.70	
<i>For >25 To 50, Add</i>	7.19	
<i>For >50 To 100, Add</i>	3.59	
<i>For >500 To 1,000, Deduct</i>	-0.49	
<i>For >1,000 To 2,000, Deduct</i>	-0.79	
<i>For >2,000 To 5,000, Deduct</i>	-1.48	
<i>For >5,000, Deduct</i>	-2.40	
33 01 70 72-0004 LF 2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	9.34	
<i>For Up To >10, Add</i>	16.90	
<i>For >10 To 25, Add</i>	13.34	
<i>For >25 To 50, Add</i>	8.23	
<i>For >50 To 100, Add</i>	4.11	
<i>For >500 To 1,000, Deduct</i>	-0.59	
<i>For >1,000 To 2,000, Deduct</i>	-0.95	
<i>For >2,000 To 5,000, Deduct</i>	-1.76	
<i>For >5,000, Deduct</i>	-2.85	
33 01 70 72-0005 LF 2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	11.74	
<i>For Up To >10, Add</i>	21.20	
<i>For >10 To 25, Add</i>	16.73	
<i>For >25 To 50, Add</i>	10.32	
<i>For >50 To 100, Add</i>	5.16	
<i>For >500 To 1,000, Deduct</i>	-0.74	
<i>For >1,000 To 2,000, Deduct</i>	-1.19	
<i>For >2,000 To 5,000, Deduct</i>	-2.21	
<i>For >5,000, Deduct</i>	-3.57	
33 01 70 72-0006 LF 3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	13.84	
<i>For Up To >10, Add</i>	24.60	
<i>For >10 To 25, Add</i>	19.37	
<i>For >25 To 50, Add</i>	11.96	
<i>For >50 To 100, Add</i>	5.98	
<i>For >500 To 1,000, Deduct</i>	-0.87	
<i>For >1,000 To 2,000, Deduct</i>	-1.39	
<i>For >2,000 To 5,000, Deduct</i>	-2.58	
<i>For >5,000, Deduct</i>	-4.18	
33 01 70 72-0007 LF 3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	15.55	
<i>For Up To >10, Add</i>	26.83	
<i>For >10 To 25, Add</i>	21.03	
<i>For >25 To 50, Add</i>	13.02	
<i>For >50 To 100, Add</i>	6.51	
<i>For >500 To 1,000, Deduct</i>	-0.97	
<i>For >1,000 To 2,000, Deduct</i>	-1.55	
<i>For >2,000 To 5,000, Deduct</i>	-2.86	
<i>For >5,000, Deduct</i>	-4.63	
33 01 70 72-0008 LF 4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	17.52	
<i>For Up To >10, Add</i>	29.84	
<i>For >10 To 25, Add</i>	23.35	
<i>For >25 To 50, Add</i>	14.46	
<i>For >50 To 100, Add</i>	7.23	
<i>For >500 To 1,000, Deduct</i>	-1.09	
<i>For >1,000 To 2,000, Deduct</i>	-1.74	
<i>For >2,000 To 5,000, Deduct</i>	-3.20	
<i>For >5,000, Deduct</i>	-5.19	
33 01 70 72-0009 LF 5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	20.66	
<i>For Up To >10, Add</i>	33.46	
<i>For >10 To 25, Add</i>	25.98	
<i>For >25 To 50, Add</i>	16.16	
<i>For >50 To 100, Add</i>	8.08	
<i>For >500 To 1,000, Deduct</i>	-1.26	
<i>For >1,000 To 2,000, Deduct</i>	-2.01	
<i>For >2,000 To 5,000, Deduct</i>	-3.68	
<i>For >5,000, Deduct</i>	-5.98	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 70 Operation and Maintenance of Electrical Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70	72-0010	LF	6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	23.80	
			<i>For Up To >10, Add</i>	37.08	
			<i>For >10 To 25, Add</i>	28.61	
			<i>For >25 To 50, Add</i>	17.85	
			<i>For >50 To 100, Add</i>	8.93	
			<i>For >500 To 1,000, Deduct</i>	-1.44	
			<i>For >1,000 To 2,000, Deduct</i>	-2.29	
			<i>For >2,000 To 5,000, Deduct</i>	-4.17	
			<i>For >5,000, Deduct</i>	-6.77	
33 01 70	72-0011		3mm Thick Cured In-Place Conduit Lining <small>(33 01 70 72-0001)</small>		
33 01 70	72-0012	LF	1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	9.43	
			<i>For Up To >10, Add</i>	16.27	
			<i>For >10 To 25, Add</i>	12.75	
			<i>For >25 To 50, Add</i>	7.89	
			<i>For >50 To 100, Add</i>	3.95	
			<i>For >500 To 1,000, Deduct</i>	-0.59	
			<i>For >1,000 To 2,000, Deduct</i>	-0.94	
			<i>For >2,000 To 5,000, Deduct</i>	-1.73	
			<i>For >5,000, Deduct</i>	-2.81	
33 01 70	72-0013	LF	2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	12.26	
			<i>For Up To >10, Add</i>	20.43	
			<i>For >10 To 25, Add</i>	15.94	
			<i>For >25 To 50, Add</i>	9.89	
			<i>For >50 To 100, Add</i>	4.94	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000 To 2,000, Deduct</i>	-1.21	
			<i>For >2,000 To 5,000, Deduct</i>	-2.21	
			<i>For >5,000, Deduct</i>	-3.60	
33 01 70	72-0014	LF	2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	15.08	
			<i>For Up To >10, Add</i>	24.54	
			<i>For >10 To 25, Add</i>	19.07	
			<i>For >25 To 50, Add</i>	11.86	
			<i>For >50 To 100, Add</i>	5.93	
			<i>For >500 To 1,000, Deduct</i>	-0.92	
			<i>For >1,000 To 2,000, Deduct</i>	-1.47	
			<i>For >2,000 To 5,000, Deduct</i>	-2.69	
			<i>For >5,000, Deduct</i>	-4.38	
33 01 70	72-0015	LF	3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	17.64	
			<i>For Up To >10, Add</i>	27.87	
			<i>For >10 To 25, Add</i>	21.56	
			<i>For >25 To 50, Add</i>	13.43	
			<i>For >50 To 100, Add</i>	6.72	
			<i>For >500 To 1,000, Deduct</i>	-1.07	
			<i>For >1,000 To 2,000, Deduct</i>	-1.70	
			<i>For >2,000 To 5,000, Deduct</i>	-3.11	
			<i>For >5,000, Deduct</i>	-5.05	
33 01 70	72-0016	LF	3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	20.06	
			<i>For Up To >10, Add</i>	30.78	
			<i>For >10 To 25, Add</i>	23.69	
			<i>For >25 To 50, Add</i>	14.80	
			<i>For >50 To 100, Add</i>	7.40	
			<i>For >500 To 1,000, Deduct</i>	-1.21	
			<i>For >1,000 To 2,000, Deduct</i>	-1.92	
			<i>For >2,000 To 5,000, Deduct</i>	-3.49	
			<i>For >5,000, Deduct</i>	-5.67	
33 01 70	72-0017	LF	4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	22.61	
			<i>For Up To >10, Add</i>	34.08	
			<i>For >10 To 25, Add</i>	26.15	
			<i>For >25 To 50, Add</i>	16.37	
			<i>For >50 To 100, Add</i>	8.18	
			<i>For >500 To 1,000, Deduct</i>	-1.36	
			<i>For >1,000 To 2,000, Deduct</i>	-2.15	
			<i>For >2,000 To 5,000, Deduct</i>	-3.90	
			<i>For >5,000, Deduct</i>	-6.34	
33 01 70	72-0018	LF	5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	27.59	
			<i>For Up To >10, Add</i>	40.32	
			<i>For >10 To 25, Add</i>	30.77	
			<i>For >25 To 50, Add</i>	19.31	
			<i>For >50 To 100, Add</i>	9.66	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000 To 2,000, Deduct</i>	-2.60	
			<i>For >2,000 To 5,000, Deduct</i>	-4.69	
			<i>For >5,000, Deduct</i>	-7.64	
33 01 70	72-0019	LF	6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	32.15	
			<i>For Up To >10, Add</i>	45.33	
			<i>For >10 To 25, Add</i>	34.36	
			<i>For >25 To 50, Add</i>	21.64	
			<i>For >50 To 100, Add</i>	10.82	
			<i>For >500 To 1,000, Deduct</i>	-1.90	
			<i>For >1,000 To 2,000, Deduct</i>	-3.00	
			<i>For >2,000 To 5,000, Deduct</i>	-5.38	
			<i>For >5,000, Deduct</i>	-8.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 05 Common Work Results for Utilities ⁽³³⁾

33 05 07 Trenchless Installation of Utility Piping ^(33 05)

33 05 07 13 Utility Directional Drilling ^(33 05 07)

33 05 07 13-0001

Horizontal Augering ^(33 05 07 13)

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	26.67
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	32.19
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	44.15
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	57.02
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	103.35
33 05 07 13-0007	LF	10" Diameter Horizontal Augering	150.77
33 05 07 13-0008	LF	12" Diameter Horizontal Augering	181.16
33 05 07 13-0009	LF	16" Diameter Horizontal Augering	216.42
33 05 07 13-0010	LF	20" Diameter Horizontal Augering	374.48
33 05 07 13-0011	LF	24" Diameter Horizontal Augering	465.82
33 05 07 13-0012	LF	30" Diameter Horizontal Augering	574.55
33 05 07 13-0013	LF	36" Diameter Horizontal Augering	656.45
33 05 07 13-0014	LF	42" Diameter Horizontal Augering	841.10
33 05 07 13-0015	LF	48" Diameter Horizontal Augering	906.30
33 05 07 13-0016	LF	54" Diameter Horizontal Augering	985.63
33 05 07 13-0017	LF	60" Diameter Horizontal Augering	1,033.34
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge	4,377.07
<small>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge	5,906.63
<small>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge	8,586.32
<small>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			

33 05 07 13-0021

Horizontal Directional Boring ^(33 05 07 13)

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	14.34
<i>For Horizontal Boring Through Rock, Add</i>			10.04
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	21.50
<i>For Horizontal Boring Through Rock, Add</i>			15.05
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	29.87
<i>For Horizontal Boring Through Rock, Add</i>			20.91
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	37.03
<i>For Horizontal Boring Through Rock, Add</i>			25.92
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	44.20
<i>For Horizontal Boring Through Rock, Add</i>			30.94
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	51.37
<i>For Horizontal Boring Through Rock, Add</i>			35.96
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	59.73
<i>For Horizontal Boring Through Rock, Add</i>			41.81
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	72.95
<i>For Horizontal Boring Through Rock, Add</i>			51.07
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	79.03
<i>For Horizontal Boring Through Rock, Add</i>			55.32
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	85.11
<i>For Horizontal Boring Through Rock, Add</i>			59.58
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	176.30
<i>For Horizontal Boring Through Rock, Add</i>			123.41
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	275.19
<i>For Horizontal Boring Through Rock, Add</i>			192.63
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	419.50
<i>For Horizontal Boring Through Rock, Add</i>			293.65
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	671.21
<i>For Horizontal Boring Through Rock, Add</i>			469.85
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge	3,822.84
<small>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge	4,377.07
<small>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge	5,906.63
<small>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>			

33 05 07 23 Utility Boring and Jacking ^(33 05 07)

33 05 07 23-0001

Horizontal Jacking ^(33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0002	LF		Up To 2" Diameter Horizontal Jacking.....	95.14	
			<i>For Horizontal Jacking Through Rock, Add</i>	32.28	
33 05 07 23-0003	LF		3" Diameter Horizontal Jacking.....	113.59	
			<i>For Horizontal Jacking Through Rock, Add</i>	38.96	
33 05 07 23-0004	LF		4" Diameter Horizontal Jacking.....	152.09	
			<i>For Horizontal Jacking Through Rock, Add</i>	53.42	
33 05 07 23-0005	LF		6" Diameter Horizontal Jacking.....	196.64	
			<i>For Horizontal Jacking Through Rock, Add</i>	69.01	
33 05 07 23-0006	LF		8" Diameter Horizontal Jacking.....	264.39	
			<i>For Horizontal Jacking Through Rock, Add</i>	94.60	
33 05 07 23-0007	LF		10" Diameter Horizontal Jacking.....	388.81	
			<i>For Horizontal Jacking Through Rock, Add</i>	138.01	
33 05 07 23-0008	LF		12" Diameter Horizontal Jacking.....	468.68	
			<i>For Horizontal Jacking Through Rock, Add</i>	165.84	
33 05 07 23-0009	LF		16" Diameter Horizontal Jacking.....	559.37	
			<i>For Horizontal Jacking Through Rock, Add</i>	198.13	
33 05 07 23-0010	LF		20" Diameter Horizontal Jacking.....	807.76	
			<i>For Horizontal Jacking Through Rock, Add</i>	343.92	
33 05 07 23-0011	LF		24" Diameter Horizontal Jacking.....	1,665.63	
			<i>For Horizontal Jacking Through Rock, Add</i>	385.98	
33 05 07 23-0012	LF		30" Diameter Horizontal Jacking.....	1,884.23	
			<i>For Horizontal Jacking Through Rock, Add</i>	476.60	
33 05 07 23-0013	LF		36" Diameter Horizontal Jacking.....	2,115.58	
			<i>For Horizontal Jacking Through Rock, Add</i>	544.95	
33 05 07 23-0014	LF		42" Diameter Horizontal Jacking.....	2,266.90	
			<i>For Horizontal Jacking Through Rock, Add</i>	588.48	
33 05 07 23-0015	LF		48" Diameter Horizontal Jacking.....	2,465.74	
			<i>For Horizontal Jacking Through Rock, Add</i>	634.07	
33 05 07 23-0016	LF		54" Diameter Horizontal Jacking.....	2,612.18	
			<i>For Horizontal Jacking Through Rock, Add</i>	690.07	
33 05 07 23-0017	EA		Up To 6" Horizontal Jacking Minimum Set-up Charge.....	3,822.84	
			Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018	EA		>6" To 20" Horizontal Jacking Minimum Set-up Charge.....	4,377.07	
			Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019	EA		>20" To 36" Horizontal Jacking Minimum Set-up Charge.....	5,906.63	
			Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020	EA		>36" Horizontal Jacking Minimum Set-up Charge.....	8,586.32	
			Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)**33 05 07 24-0001****Casing Pipe (33 05 07 24)**

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002**Steel Pipe (33 05 07 24-0001)**

33 05 07 24-0003	LF		1-1/2" Steel Pipe Pull In Place By Boring Machine.....	40.72	
			Note: Includes pipe welding.		
33 05 07 24-0004	LF		2" Steel Pipe Pull In Place By Boring Machine.....	42.99	
			Note: Includes pipe welding.		
33 05 07 24-0005	LF		2-1/2" Steel Pipe Pull In Place By Boring Machine.....	46.66	
			Note: Includes pipe welding.		
33 05 07 24-0006	LF		3" Steel Pipe Pull In Place By Boring Machine.....	50.41	
			Note: Includes pipe welding.		
33 05 07 24-0007	LF		4" Steel Pipe Pull In Place By Boring Machine.....	64.95	
			Note: Includes pipe welding.		
33 05 07 24-0008	LF		5" Steel Pipe Pull In Place By Boring Machine.....	74.04	
			Note: Includes pipe welding.		
33 05 07 24-0009	LF		6" Steel Pipe Pull In Place By Boring Machine.....	83.09	
			Note: Includes pipe welding.		

33 05 07 24-0010**Polyethylene Pipe (33 05 07 24-0001)**

33 05 07 24-0011	LF		3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	8.66	
			Note: Includes pipe welding.		
33 05 07 24-0012	LF		1" Polyethylene Pipe Pull In Place By Boring Machine.....	9.40	
			Note: Includes pipe welding.		
33 05 07 24-0013	LF		1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	10.18	
			Note: Includes pipe welding.		
33 05 07 24-0014	LF		1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	10.89	
			Note: Includes pipe welding.		
33 05 07 24-0015	LF		2" Polyethylene Pipe Pull In Place By Boring Machine.....	11.66	
			Note: Includes pipe welding.		
33 05 07 24-0016	LF		2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	12.53	
			Note: Includes pipe welding.		
33 05 07 24-0017	LF		3" Polyethylene Pipe Pull In Place By Boring Machine.....	13.46	
			Note: Includes pipe welding.		
33 05 07 24-0018	LF		4" Polyethylene Pipe Pull In Place By Boring Machine.....	16.73	
			Note: Includes pipe welding.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	18.73	
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	20.75	
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	27.78	
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	38.83	
33 05 09 Piping Specials for Utilities <small>(33 05)</small>		
33 05 09 13 Couplings for Utility Piping <small>(33 05 09)</small> See CSI section 33 42 11 00-0058 for couplings.		
33 05 09 23 Adapters for Utility Piping <small>(33 05 09)</small> See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.		
33 05 09 33 Thrust Restraint for Utility Piping <small>(33 05 09)</small> See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1154 for slip-on restraints, 33 14 13 13-1170 for slip-on restraint harnesses.		
33 05 16 Cast-Iron Utility Pipe <small>(33 05)</small> See CSI section 22 13 16 00-0019 for cast iron utility piping.		
33 05 17 Copper Utility Pipe and Tubing <small>(33 05)</small> See CSI section 33 14 13 39-0000 for copper utility piping.		
33 05 19 Ductile-Iron Utility Pipe <small>(33 05)</small> See CSI section 33 14 13 13-0000 for ductile iron utility piping.		
33 05 24 Steel Utility Pipe <small>(33 05)</small>		
33 05 24 23 Steel Pipe for Water Service <small>(33 05 24)</small> See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.		
33 05 27 Corrugated Metal Utility Pipe <small>(33 05)</small>		
33 05 27 13 Corrugated Metal Culvert Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0498 for corrugated metal culvert pipe.		
33 05 27 23 Corrugated Metal Slotted Pipe <small>(33 05 27)</small> See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
33 05 27 33 Corrugated Metal Culvert Arch Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0842 for corrugated metal culvert arch pipe.		
33 05 31 Thermoplastic Utility Pipe <small>(33 05)</small>		
33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe <small>(33 05 31)</small> See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13 Polyvinyl Chloride Pressure Pipe <small>(33 05 31)</small> See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.		
33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) <small>(33 05 31)</small> See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
33 05 33 Polyethylene Utility Pipe <small>(33 05)</small>		
33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.		
33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) <small>(33 05 33)</small> See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0261 for corrugated perforated HDPE drainage pipe.		
33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
33 05 33 63 HDPE Communication Duct <small>(33 05 33)</small>		
33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine <small>(33 05 33 63)</small> Note: Excludes boring.		
33 05 33 63-0002 LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine..... For Up To 250, Add For >250 To 500, Add	3.77 0.12 0.08	
33 05 33 63-0003 LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine..... For Up To 250, Add For >250 To 500, Add	4.23 0.15 0.10	

33 Utilities**33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33	63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.58	
			For Up To 250, Add	0.17	
			For >250 To 500, Add	0.11	
33 05 33	63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.03	
			For Up To 250, Add	0.20	
			For >250 To 500, Add	0.14	
33 05 33	63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.82	
			For Up To 250, Add	0.43	
			For >250 To 500, Add	0.28	
33 05 33	63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.64	
			For Up To 250, Add	0.65	
			For >250 To 500, Add	0.43	
33 05 33	63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.86	
			For Up To 250, Add	0.14	
			For >250 To 500, Add	0.09	
33 05 33	63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.39	
			For Up To 250, Add	0.17	
			For >250 To 500, Add	0.12	
33 05 33	63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.71	
			For Up To 250, Add	0.19	
			For >250 To 500, Add	0.13	
33 05 33	63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.36	
			For Up To 250, Add	0.25	
			For >250 To 500, Add	0.17	
33 05 33	63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.54	
			For Up To 250, Add	0.53	
			For >250 To 500, Add	0.36	
33 05 33	63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	9.55	
			For Up To 250, Add	0.79	
			For >250 To 500, Add	0.52	

33 05 39 Concrete Pipe (33 05)**33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)** (33 05)

³⁹⁾
See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.

33 05 39 14 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0365 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05)**33 05 61 00-0001 Manholes** (33 05 61)**33 05 61 00-0002 Precast Concrete Manholes** (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0004	EA	4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,713.86	303.27
		For Bitumastic Coating, Add	79.63	
		For Epoxy Coating, Add	152.16	
33 05 61 00-0005	EA	6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,334.76	435.60
		For Bitumastic Coating, Add	119.44	
		For Epoxy Coating, Add	228.24	
33 05 61 00-0006	EA	8' Deep, 3' Diameter, Precast Concrete Manhole.....	3,143.13	661.67
		For Bitumastic Coating, Add	159.25	
		For Epoxy Coating, Add	304.32	
33 05 61 00-0007	VLF	Riser For 3' Diameter, Precast Concrete Manhole.....	332.50	77.19
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	19.91	
		For Epoxy Coating, Add	38.04	
33 05 61 00-0008	VLF	Drop Collar For 3' Diameter, Precast Concrete Manhole.....	358.63	77.19
33 05 61 00-0009	EA	Drop Base For 3' Diameter, Precast Concrete Manhole.....	576.07	77.19
33 05 61 00-0010	EA	Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	459.30	77.19
33 05 61 00-0011	EA	Precast Channel For 3' Diameter, Precast Concrete Manhole.....	658.18	77.19

33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0013	EA	4' Deep, 4' Diameter, Precast Concrete Manhole.....	2,616.24	347.38
		For Bitumastic Coating, Add	79.63	
		For Epoxy Coating, Add	152.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole	3,489.33	474.20
<i>For Bitumastic Coating, Add</i>	119.44	
<i>For Epoxy Coating, Add</i>	228.24	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole	4,583.87	716.81
<i>For Bitumastic Coating, Add</i>	159.25	
<i>For Epoxy Coating, Add</i>	304.32	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole	487.54	90.98
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	19.91	
<i>For Epoxy Coating, Add</i>	38.04	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole	532.78	90.98
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole	909.17	90.98
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	707.04	90.98
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole	1,051.34	90.98
 33 05 61 00-0021 5' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole	4,983.42	385.97
<i>For Bitumastic Coating, Add</i>	102.59	
<i>For Epoxy Coating, Add</i>	245.30	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole	6,633.50	529.34
<i>For Bitumastic Coating, Add</i>	153.89	
<i>For Epoxy Coating, Add</i>	367.95	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole	8,529.05	794.01
<i>For Bitumastic Coating, Add</i>	205.19	
<i>For Epoxy Coating, Add</i>	490.60	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole	881.91	99.25
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	25.65	
<i>For Epoxy Coating, Add</i>	61.32	
 33 05 61 00-0026 6' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole	6,709.73	430.09
<i>For Bitumastic Coating, Add</i>	117.46	
<i>For Epoxy Coating, Add</i>	287.18	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole	8,732.02	584.48
<i>For Bitumastic Coating, Add</i>	176.18	
<i>For Epoxy Coating, Add</i>	430.77	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole	11,029.16	882.23
<i>For Bitumastic Coating, Add</i>	234.91	
<i>For Epoxy Coating, Add</i>	574.36	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole	1,073.90	110.28
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	29.36	
<i>For Epoxy Coating, Add</i>	71.80	
 33 05 61 00-0031 7' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole	10,630.81	474.20
<i>For Bitumastic Coating, Add</i>	249.77	
<i>For Epoxy Coating, Add</i>	501.83	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole	13,738.49	646.79
<i>For Bitumastic Coating, Add</i>	374.66	
<i>For Epoxy Coating, Add</i>	752.74	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole	17,148.34	970.45
<i>For Bitumastic Coating, Add</i>	499.55	
<i>For Epoxy Coating, Add</i>	1,003.65	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole	1,623.86	121.31
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	62.44	
<i>For Epoxy Coating, Add</i>	125.46	
 33 05 61 00-0036 8' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole	15,421.36	545.88
<i>For Bitumastic Coating, Add</i>	295.29	
<i>For Epoxy Coating, Add</i>	611.68	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole	19,986.51	744.38
<i>For Bitumastic Coating, Add</i>	442.93	
<i>For Epoxy Coating, Add</i>	917.52	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole	24,899.02	1,116.57
<i>For Bitumastic Coating, Add</i>	590.57	
<i>For Epoxy Coating, Add</i>	1,223.37	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole	2,359.77	137.85
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	73.82	
<i>For Epoxy Coating, Add</i>	152.92	

33 05 63 Concrete Vaults and Chambers (33 05)

33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)
 See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 00-0002		Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small> Note: Sizes given are for inside dimensions.	
33 05 63 00-0003		6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,575.73
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,660.99
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,689.53
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,878.84
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,956.51
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,250.91
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,546.43
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,347.95
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,347.95
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,548.01
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,756.72
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,261.41
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,667.80
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,508.54
33 05 63 00-0018		7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,847.57
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,995.92
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,286.28
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,364.60
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,644.63
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,349.78
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,881.73
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,057.52
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,428.03
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,868.23
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,477.12
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,071.47
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,868.59
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,827.65
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,107.91
33 05 63 00-0034		8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,296.16
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,561.80
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,039.65
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,409.31
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,036.60
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,511.41
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,986.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,508.07	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,188.50	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,196.45	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,881.51	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,068.18	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,147.90	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,308.33	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,576.66	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,141.08	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,507.86	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,116.70	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,771.88	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,530.79	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	4,793.49	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	6,026.80	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	7,472.00	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	10,344.08	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	5,359.52	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	7,472.00	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	9,635.32	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	12,020.05	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	17,130.21	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069) Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	421.13	24.30
33 05 63 00-0074 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	346.57	53.97
33 05 63 00-0075 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	529.87	80.95
33 05 63 00-0076 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	622.71	80.95
33 05 63 00-0077 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	592.04	80.95
33 05 63 00-0078 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	725.93	80.95
33 05 63 00-0079 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	705.72	80.95
33 05 63 00-0080 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	976.84	80.95
33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,391.08	107.94
33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,974.55	107.94
33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,236.85	148.41
33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,419.57	148.41
33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,370.10	148.41

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0086	EA		39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,319.04	161.90
33 05 63 00-0087	EA		39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,917.56	161.90
33 05 63 00-0088	EA		39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,407.00	161.90
33 05 63 00-0089	EA		39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,564.64	161.90
33 05 63 00-0090	EA		30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,902.49	251.92
33 05 63 00-0091	EA		30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,803.30	251.92
33 05 63 00-0092			Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093	EA		12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	542.41	24.30
33 05 63 00-0094	EA		13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	674.32	80.95
33 05 63 00-0095	EA		17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	823.75	80.95
33 05 63 00-0096	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	756.87	80.95
33 05 63 00-0097	EA		13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	871.30	80.95
33 05 63 00-0098	EA		17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	901.31	80.95
33 05 63 00-0099	EA		17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,174.12	80.95
33 05 63 00-0100	EA		24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,544.01	148.41
33 05 63 00-0101	EA		24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,726.73	148.41
33 05 63 00-0102	EA		24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,677.29	148.41
33 05 63 00-0103	EA		30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,261.43	251.92
33 05 63 00-0104	EA		30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,169.08	251.92
33 05 63 00-0105			Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0106			Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107	EA		5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	698.49	24.30
33 05 63 00-0108	EA		10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	588.71	24.30
33 05 63 00-0109	EA		13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	448.86	80.95
33 05 63 00-0110	EA		17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	513.64	80.95
33 05 63 00-0111	EA		6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	155.11	24.30
33 05 63 00-0112	EA		12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	246.91	24.30
33 05 63 00-0113	EA		8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	406.23	24.30
33 05 63 00-0114	EA		8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	425.51	24.30
33 05 63 00-0115	EA		11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	339.85	53.97
33 05 63 00-0116	EA		11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	369.42	53.97
33 05 63 00-0117	EA		8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	242.96	24.30
33 05 63 00-0118	EA		8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	279.09	24.30
33 05 63 00-0119	EA		11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	366.35	53.97
33 05 63 00-0120	EA		11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	416.07	53.97
33 05 63 00-0121	EA		11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	383.89	53.97
33 05 63 00-0122	EA		13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.88	80.95
33 05 63 00-0123	EA		13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	500.65	80.95
33 05 63 00-0124	EA		17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	536.92	80.95
33 05 63 00-0125	EA		17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	591.54	80.95
33 05 63 00-0126	EA		17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	700.47	80.95
33 05 63 00-0127	EA		17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	766.55	80.95
33 05 63 00-0128	EA		17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	838.86	80.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	884.32	80.95
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,048.34	107.94
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,038.91	148.41
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,355.58	148.41
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,647.98	148.41
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,832.64	148.41
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,016.32	148.41
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,253.92	251.92
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,606.58	251.92
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,841.11	251.92
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,289.58	251.92
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,284.97	251.92
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,452.38	251.92
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,774.33	251.92
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,532.65	269.91
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,759.96	269.91
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,050.16	269.91
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,166.28	269.91
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,206.64	269.91
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,648.82	269.91
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,790.08	269.91
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,721.80	269.91
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,197.17	287.90
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,210.91	287.90
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	6,721.69	287.90
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	617.03	80.95
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	713.11	80.95
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	270.28	24.30
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	395.73	24.30
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	534.41	24.30
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	553.72	24.30
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	466.12	53.97
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	486.70	53.97
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	514.22	53.97
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	368.54	24.30
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	437.60	24.30
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	513.55	53.97
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	563.27	53.97
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	532.66	53.97
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	616.10	80.95

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	665.48	80.95
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	732.89	80.95
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	787.16	80.95
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	895.78	80.95
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	962.14	80.95
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,034.13	80.95
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,079.91	80.95
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,318.53	107.94
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,346.10	148.41
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,662.39	148.41
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,954.48	148.41
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,138.85	148.41
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,323.13	148.41
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,962.13	251.92
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,197.01	251.92
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,645.13	251.92
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	563.33	80.95
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	662.09	80.95
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	196.86	24.30
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.28	24.30
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	480.77	24.30
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	500.43	24.30
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	430.80	53.97
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	488.03	53.97
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	288.48	24.30
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	458.93	53.97
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	530.22	53.97
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	477.45	53.97
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	608.53	80.95
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	706.01	80.95
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	738.43	80.95
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	815.61	80.95
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	886.61	80.95
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	953.65	80.95
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,073.68	80.95
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,090.41	80.95
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,339.47	107.94
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,373.24	148.41
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,722.55	148.41
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,068.02	148.41
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,297.47	148.41
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,526.93	148.41
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,681.43	251.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,034.12	251.92
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,286.94	251.92
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,735.10	251.92
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,932.78	251.92
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,994.68	251.92
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,595.20	251.92
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,318.50	269.91
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,435.95	269.91
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,769.12	269.91
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,021.28	269.91
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,684.22	269.91
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,586.05	269.91
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,965.00	269.91
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,369.64	269.91
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,310.19	287.90
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	6,324.33	287.90
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	8,574.89	287.90
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	731.47	80.95
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	861.94	80.95
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	311.10	24.30
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	479.81	24.30
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	608.69	24.30
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	628.61	24.30
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	578.00	53.97
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	634.89	53.97
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	451.72	24.30
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	605.46	53.97
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	676.76	53.97
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	584.21	53.97
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	773.42	80.95
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	870.90	80.95
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	934.02	80.95
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,011.23	80.95
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,082.21	80.95
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,149.27	80.95
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,269.33	80.95
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,286.00	80.95
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,609.31	107.94
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,680.40	148.41
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,029.40	148.41

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		2,374.48	148.41
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		2,604.11	148.41
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		2,833.74	148.41
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		2,389.99	251.92
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		2,643.16	251.92
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure		3,091.00	251.92
33 05 63 00-0261		Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)			
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		604.33	80.95
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		408.53	53.97
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		463.51	53.97
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		532.98	80.95
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		426.54	53.97
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure		479.19	53.97
33 05 63 00-0268		Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)			
Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.					
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		430.63	80.95
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		487.92	80.95
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		552.49	107.94
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		608.74	107.94
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		710.90	148.41
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		1,272.92	251.92
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		1,211.42	251.92
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		1,224.84	251.92
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		1,683.01	269.91
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		2,733.19	287.90
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension		3,626.49	287.90
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		731.24	80.95
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		766.23	80.95
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		808.91	107.94
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		865.77	107.94
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		992.14	148.41
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension		1,608.87	251.92
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension		560.14	80.95
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension		629.18	80.95
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension		809.95	148.41
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension		1,617.17	269.91
33 05 63 00-0290		Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)			
33 05 63 00-0291		Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)			
33 05 63 00-0292	EA	5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		162.51	10.80
33 05 63 00-0293	EA	10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		164.71	10.80
33 05 63 00-0294	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		152.10	10.80
33 05 63 00-0295	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		165.14	10.80
33 05 63 00-0296	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		166.82	10.79
33 05 63 00-0297	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		192.50	10.79
33 05 63 00-0298	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		224.28	10.79
33 05 63 00-0299	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		1,500.22	32.39
33 05 63 00-0300	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		1,310.75	32.39
33 05 63 00-0301	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		1,970.70	32.39
33 05 63 00-0302	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover		1,993.20	32.39



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0303	EA			36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,260.23	32.39
33 05 63 00-0304	EA			48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,464.21	32.39
33 05 63 00-0305	EA			48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	3,970.14	32.39
33 05 63 00-0306	EA			10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	138.08	10.79
33 05 63 00-0307	EA			11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	201.14	10.79
33 05 63 00-0308	EA			11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	204.07	10.79
33 05 63 00-0309	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	258.73	10.79
33 05 63 00-0310	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	193.32	10.79
33 05 63 00-0311	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	307.46	10.79
33 05 63 00-0312	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	239.76	10.79
33 05 63 00-0313	EA			27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	500.07	10.79
33 05 63 00-0314	EA			24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	432.42	16.19
33 05 63 00-0315	EA			24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	546.08	16.19
33 05 63 00-0316	EA			39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	705.24	18.88
33 05 63 00-0317	EA			36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	992.86	25.19
33 05 63 00-0318	EA			30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,030.26	47.98
33 05 63 00-0319	EA			11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	262.00	10.79
33 05 63 00-0320	EA			13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	376.82	10.79
33 05 63 00-0321	EA			17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	429.82	10.79
33 05 63 00-0322	EA			27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	719.76	10.79
33 05 63 00-0323	EA			24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	588.30	16.19
33 05 63 00-0324	EA			39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,000.25	18.88
33 05 63 00-0325	EA			36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,312.43	25.19
33 05 63 00-0326	EA			30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,771.86	32.39
33 05 63 00-0327	EA			30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,573.34	32.39
33 05 63 00-0328	EA			36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,204.62	32.39
33 05 63 00-0329	EA			48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,876.00	32.39
33 05 63 00-0330	EA			36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,753.53	32.39
33 05 63 00-0331	EA			48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	4,188.79	32.39
33 05 63 00-0332	EA			48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	6,479.59	32.39
33 05 63 00-0333	EA			11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	347.07	10.79
33 05 63 00-0334	EA			11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	380.24	10.79
33 05 63 00-0335	EA			13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	503.09	10.79
33 05 63 00-0336	EA			17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	574.38	10.79
33 05 63 00-0337	EA			27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	998.36	10.79
33 05 63 00-0338	EA			24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	719.58	16.19
33 05 63 00-0339	EA			24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	988.01	16.19
33 05 63 00-0340	EA			39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,536.26	18.88
33 05 63 00-0341	EA			36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,757.28	25.19
33 05 63 00-0342	EA			30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,826.75	47.98
33 05 63 00-0343	EA			30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,113.64	32.39
33 05 63 00-0344	EA			36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,957.68	32.39
33 05 63 00-0345	EA			48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	4,144.86	32.39
33 05 63 00-0346	EA			36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	3,696.82	32.39
33 05 63 00-0347	EA			48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	6,137.84	32.39
33 05 63 00-0348	EA			48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	9,483.29	32.39
33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)						
33 05 63 00-0350	EA			12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	187.76	10.80
33 05 63 00-0351	EA			8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	198.86	10.80
33 05 63 00-0352	EA			11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	202.48	10.79
33 05 63 00-0353	EA			13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	203.84	10.79
33 05 63 00-0354	EA			17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	236.40	10.79
33 05 63 00-0355	EA			10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	148.32	10.79
33 05 63 00-0356	EA			11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	211.64	10.79
33 05 63 00-0357	EA			11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	213.67	10.79
33 05 63 00-0358	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	269.54	10.79
33 05 63 00-0359	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	205.09	10.79
33 05 63 00-0360	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	252.20	10.79
33 05 63 00-0361	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	318.92	10.79
33 05 63 00-0362	EA			24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	441.10	16.19
33 05 63 00-0363	EA			24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	557.89	16.19
33 05 63 00-0364	EA			30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,042.38	47.98
33 05 63 00-0365	EA			6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	122.29	10.80
33 05 63 00-0366	EA			8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	195.38	10.80
33 05 63 00-0367	EA			8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	218.17	10.80
33 05 63 00-0368	EA			12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	208.05	10.80
33 05 63 00-0369	EA			10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	170.09	10.79
33 05 63 00-0370	EA			11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	272.47	10.79
33 05 63 00-0371	EA			11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	296.13	10.79
33 05 63 00-0372	EA			13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	387.95	10.79
33 05 63 00-0373	EA			17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	441.91	10.79
33 05 63 00-0374	EA			24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	599.11	16.19
33 05 63 00-0375	EA			24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	750.84	16.19
33 05 63 00-0376	EA			30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,377.64	47.98
33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)						

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0378 EA 6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	97.15	10.80
33 05 63 00-0379 EA 7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	116.81	10.80
33 05 63 00-0380 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	143.28	10.80
33 05 63 00-0381 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	155.05	10.80
33 05 63 00-0382 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	154.72	10.79
33 05 63 00-0383 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	184.88	10.79
33 05 63 00-0384 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	214.51	10.79
33 05 63 00-0385 EA 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	526.78	16.19
33 05 63 00-0386 EA 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	986.13	47.98
33 05 63 00-0387 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,483.66	32.39
33 05 63 00-0388 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,292.04	32.39
33 05 63 00-0389 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,939.94	32.39
33 05 63 00-0390 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,871.43	32.39
33 05 63 00-0391 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,242.37	32.39
33 05 63 00-0392 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,398.22	32.39
33 05 63 00-0393 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	3,843.32	32.39
33 05 63 00-0394 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	132.49	10.79
33 05 63 00-0395 EA 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	129.21	10.79
33 05 63 00-0396 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	194.07	10.79
33 05 63 00-0397 EA 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	213.93	10.79
33 05 63 00-0398 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	243.04	10.79
33 05 63 00-0399 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	183.17	10.79
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	205.09	10.79
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	293.72	10.79
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	424.51	16.19
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	532.89	16.19
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	526.46	16.19
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	952.62	25.19
33 05 63 00-0406 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	986.13	28.79
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0408 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,545.39	32.39
33 05 63 00-0409 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,244.66	32.39
33 05 63 00-0410 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,295.84	47.98
33 05 63 00-0411 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,722.72	47.98
33 05 63 00-0412 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,839.01	32.39
33 05 63 00-0413 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,512.02	32.39
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0415 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	599.32	16.19
33 05 63 00-0416 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,118.81	25.19
33 05 63 00-0417 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,168.65	47.98
33 05 63 00-0418 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	91.67	10.80
33 05 63 00-0419 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	156.10	10.80
33 05 63 00-0420 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	172.39	10.80
33 05 63 00-0421 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	183.18	10.80
33 05 63 00-0422 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	159.94	10.79
33 05 63 00-0423 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	286.53	10.79
33 05 63 00-0424 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	806.28	16.19
33 05 63 00-0425 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,492.05	25.19
33 05 63 00-0426 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,562.47	47.98
33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover	1,024.14	257.05
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,743.90	385.58
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	111.45	
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover	2,091.66	514.10
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	196.26	
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover	2,182.42	514.10
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	248.54	
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover	2,547.52	642.63
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	299.75	
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover	2,698.04	642.63
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	328.21	
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover	3,103.09	771.16
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	383.89	
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover	3,556.31	899.68
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	532.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,550.59 <i>573.21</i>	771.16
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,589.07 <i>403.01</i>	771.16
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	777.70 <i>15.00</i>	257.05
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	923.02 <i>15.00</i>	289.18
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	1,149.39 <i>15.00</i>	321.31

33 05 81 Metallic Castings for Utility Structures (33 05)

33 05 81 00-0001	Manhole Accessories <small>(33 05 81)</small>	
33 05 81 00-0002	Steps For Cast-In-Place Manholes <small>(33 05 81 00-0001)</small> See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.	
33 05 81 00-0003 EA	Cast Iron Manhole Step For New Manholes	103.56
33 05 81 00-0004 EA	Galvanized Steel Manhole Step For New Manholes.....	69.02
33 05 81 00-0005 EA	Aluminum Manhole Step For New Manholes.....	99.85

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)
Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007	Regular Manhole Covers And Frames <small>(33 05 81 00-0006)</small>	
33 05 81 00-0008 EA	18" Square, Gray Iron, Manhole Cover With Frame	2,610.00
	<i>For Ductile Iron Castings, Add</i>	<i>1,626.29</i>
33 05 81 00-0009 EA	18" Diameter, Gray Iron, Manhole Cover With Frame	1,414.44
	<i>For Ductile Iron Castings, Add</i>	<i>789.40</i>
33 05 81 00-0010 EA	24" Diameter, Gray Iron, Manhole Cover With Frame	1,634.71
	<i>For Ductile Iron Castings, Add</i>	<i>912.71</i>
33 05 81 00-0011 EA	24" Square, Gray Iron, Manhole Cover With Frame	2,633.08
	<i>For Ductile Iron Castings, Add</i>	<i>1,585.84</i>
33 05 81 00-0012 EA	26" Diameter, Gray Iron, Manhole Cover With Frame	2,195.83
	<i>For Ductile Iron Castings, Add</i>	<i>1,258.07</i>
33 05 81 00-0013 EA	30" Diameter, Gray Iron, Manhole Cover With Frame	2,291.80
	<i>For Ductile Iron Castings, Add</i>	<i>1,314.79</i>
33 05 81 00-0014 EA	24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard	1,336.36
	<i>For Ductile Iron Castings, Add</i>	<i>678.13</i>

33 05 81 00-0015 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0016 EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	2,877.15
	<i>For Ductile Iron Castings, Add</i>	<i>1,795.84</i>
33 05 81 00-0017 EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	2,911.22
	<i>For Ductile Iron Castings, Add</i>	<i>1,801.72</i>
33 05 81 00-0018 EA	24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	2,958.46
	<i>For Ductile Iron Castings, Add</i>	<i>1,813.60</i>
33 05 81 00-0019 EA	26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	3,540.42
	<i>For Ductile Iron Castings, Add</i>	<i>2,199.28</i>
33 05 81 00-0020 EA	30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,122.52
	<i>For Ductile Iron Castings, Add</i>	<i>2,596.29</i>
33 05 81 00-0021 EA	32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,346.24
	<i>For Ductile Iron Castings, Add</i>	<i>2,749.10</i>
33 05 81 00-0022 EA	36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,546.36
	<i>For Ductile Iron Castings, Add</i>	<i>2,885.25</i>

33 05 81 00-0023 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0024 EA	12" Square Aluminum Manhole Cover With Frame	1,233.77
33 05 81 00-0025 EA	18" Square Aluminum Manhole Cover With Frame	2,273.94
33 05 81 00-0026 EA	24" Square Aluminum Manhole Cover With Frame	3,269.61

33 05 81 00-0027 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006)

33 05 81 00-0028 EA	Removal And Reinstallation Of Manhole Cover And Frame	442.15
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33 05 81 00-0029 Adjust Frame And Cover To Grade (Monterey County) (33 05 81 00-0006)

33 05 81 00-0030 EA	Adjust Frame And Cover To Grade (Monterey County).....	720.55
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33 05 83 Non-Metallic Accessories for Utility Structures (33 05)

33 05 83 00-0001	Manhole Accessories <small>(33 05 83)</small>	
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33 Utilities**33 05 Common Work Results for Utilities****33 05 83 Non-Metallic Accessories for Utility Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 83 00-0002	Steps For Cast-In-Place Manholes <small>(33 05 83 00-0001)</small>			
	See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.			
33 05 83 00-0003	EA	Polypropylene Manhole Step For New Manholes	52.87	
33 05 83 00-0004	Rainguard Inflow Protectors <small>(33 05 83)</small>			
33 05 83 00-0005	EA	18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	139.91	22.99
33 05 83 00-0006	EA	22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	163.42	22.99
33 05 83 00-0007	EA	24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	195.36	27.59
33 05 83 00-0008	EA	26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	210.21	27.59
33 05 83 00-0009	EA	30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	261.70	32.19
33 05 83 00-0010	EA	32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	279.94	32.19
33 05 84	Accessories for Utility Structures <small>(33 05)</small>			
	See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.			
33 05 84 00-0001	Manhole Accessories <small>(33 05 84)</small>			
33 05 84 00-0002	Precast Concrete Manhole Tops <small>(33 05 84 00-0001)</small>			
33 05 84 00-0003	Precast Concrete Manhole Slab Tops <small>(33 05 84 00-0002)</small>			
33 05 84 00-0004	EA	3' Diameter x 8" Thick Precast Manhole Top Slab	623.97	82.71
33 05 84 00-0005	EA	4' Diameter x 8" Thick Precast Manhole Top Slab	879.31	89.33
33 05 84 00-0006	EA	5' Diameter x 8" Thick Precast Manhole Top Slab	1,196.33	95.94
33 05 84 00-0007	EA	6' Diameter x 8" Thick Precast Manhole Top Slab	1,435.55	102.56
33 05 84 00-0008	EA	7' Diameter x 8" Thick Precast Manhole Top Slab	2,197.47	110.28
33 05 84 00-0009	EA	8' Diameter x 10" Thick Precast Manhole Top Slab	2,941.09	118.55
33 05 84 00-0010	EA	10' Diameter x 12" Thick Precast Manhole Top Slab	4,992.55	126.82
33 05 84 00-0011	EA	12' Diameter x 12" Thick Precast Manhole Top Slab	7,094.59	136.47
33 05 84 00-0012	Precast Concrete Manhole Cone Tops <small>(33 05 84 00-0002)</small>			
33 05 84 00-0013	EA	3' Diameter x 8" Thick Precast Manhole Top Cone.....	999.80	103.38
33 05 84 00-0014	EA	3'-6" Diameter x 8" Thick Precast Manhole Top Cone	1,114.05	107.52
33 05 84 00-0015	EA	4' Diameter x 8" Thick Precast Manhole Top Cone	1,228.32	111.66
33 05 84 00-0016	EA	5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,451.29	118.55
33 05 84 00-0017	EA	6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,679.80	126.82
33 05 84 00-0018	EA	7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,678.75	135.09
33 05 84 00-0019	EA	8' Diameter x 10" Thick Precast Manhole Top Cone.....	3,369.61	148.88
33 05 84 00-0020	Precast Concrete Manhole Reducer Slabs <small>(33 05 84 00-0002)</small>			
33 05 84 00-0021	EA	5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,309.46	95.94
33 05 84 00-0022	EA	6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,690.36	102.56
33 05 84 00-0023	EA	7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,238.20	102.56
33 05 84 00-0024	EA	8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,554.52	102.56
33 05 84 00-0025	EA	10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	4,578.58	102.56
33 05 84 00-0026	EA	12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	6,640.74	102.56
33 05 84 00-0027	Pipe To Manhole Connector <small>(33 05 84 00-0001)</small>			
33 05 84 00-0028	Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors <small>(33 05 84 00-0027)</small>			
33 05 84 00-0029	EA	4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	123.62	
33 05 84 00-0030	EA	6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	194.93	
33 05 84 00-0031	EA	8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	219.12	
33 05 84 00-0032	EA	10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	351.58	
33 05 84 00-0033	EA	12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	499.62	
33 05 84 00-0034	EA	15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	653.60	
33 05 84 00-0035	EA	18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,224.53	
33 05 84 00-0036	EA	21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,711.95	
33 05 84 00-0037	EA	24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,756.56	
33 05 84 00-0038	EA	27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	3,228.63	
33 05 84 00-0039	Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout <small>(33 05 84 00-0027)</small>			
	Note: Femco CMA.			
33 05 84 00-0040	EA	4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	114.34	
33 05 84 00-0041	EA	6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	158.97	
33 05 84 00-0042	EA	8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	200.92	
33 05 84 00-0043	EA	10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	242.67	
33 05 84 00-0044	EA	12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	281.48	
33 05 84 00-0045	Brick And Grout Pipe To Manhole Connector <small>(33 05 84 00-0027)</small>			
33 05 84 00-0046	EA	Seal Gap Between Pipe And Structure With Brick And Grout.....	287.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0047 Inverts For Manholes <small>(33 05 84 00-0001)</small>		
33 05 84 00-0048 EA Single Channel Concrete Invert For Manholes.....	441.49	
33 05 84 00-0049 EA Double Channel Concrete Invert For Manholes.....	639.36	
33 05 84 00-0050 EA Triple Channel Concrete Invert For Manholes.....	860.17	
33 05 84 00-0051 EA Quad Channel Concrete Invert For Manholes.....	1,080.95	
33 05 84 00-0052 EA Single Channel Brick Invert For Manholes.....	678.05	
33 05 84 00-0053 EA Double Channel Brick Invert For Manholes.....	1,014.91	
33 05 84 00-0054 EA Triple Channel Brick Invert For Manholes.....	1,357.54	
33 05 84 00-0055 EA Quad Channel Brick Invert For Manholes.....	1,696.49	
33 05 84 00-0056 Protective Coating For New Manholes <small>(33 05 84 00-0001)</small>		
33 05 84 00-0057 Polyurethane Protective Coating For New Manholes <small>(33 05 84 00-0056)</small>		
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	211.98	
<i>For 80 Mil Material, Add</i>	31.77	
<i>For 100 Mil Material, Add</i>	63.53	
<i>For 125 Mil Material, Add</i>	100.41	
<i>For 150 Mil Material, Add</i>	137.30	
<i>For 200 Mil Material, Add</i>	203.54	
<i>For 2 To 5 Manholes, Deduct</i>	-14.36	
<i>For 6 To 10 Manholes, Deduct</i>	-23.43	
<i>For >10 Manholes, Deduct</i>	-46.85	
33 05 84 00-0059 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	255.74	
<i>For 80 Mil Material, Add</i>	37.71	
<i>For 100 Mil Material, Add</i>	75.42	
<i>For 125 Mil Material, Add</i>	119.10	
<i>For 150 Mil Material, Add</i>	162.79	
<i>For 200 Mil Material, Add</i>	240.95	
<i>For 2 To 5 Manholes, Deduct</i>	-17.39	
<i>For 6 To 10 Manholes, Deduct</i>	-28.38	
<i>For >10 Manholes, Deduct</i>	-56.76	
33 05 84 00-0060 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	282.63	
<i>For 80 Mil Material, Add</i>	42.35	
<i>For 100 Mil Material, Add</i>	84.70	
<i>For 125 Mil Material, Add</i>	133.88	
<i>For 150 Mil Material, Add</i>	183.06	
<i>For 200 Mil Material, Add</i>	271.37	
<i>For 2 To 5 Manholes, Deduct</i>	-19.15	
<i>For 6 To 10 Manholes, Deduct</i>	-31.23	
<i>For >10 Manholes, Deduct</i>	-62.47	
33 05 84 00-0061 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	353.36	
<i>For 80 Mil Material, Add</i>	52.96	
<i>For 100 Mil Material, Add</i>	105.93	
<i>For 125 Mil Material, Add</i>	167.42	
<i>For 150 Mil Material, Add</i>	228.92	
<i>For 200 Mil Material, Add</i>	339.37	
<i>For 2 To 5 Manholes, Deduct</i>	-23.94	
<i>For 6 To 10 Manholes, Deduct</i>	-39.05	
<i>For >10 Manholes, Deduct</i>	-78.10	
33 05 84 00-0062 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	410.64	
<i>For 80 Mil Material, Add</i>	62.55	
<i>For 100 Mil Material, Add</i>	125.09	
<i>For 125 Mil Material, Add</i>	197.88	
<i>For 150 Mil Material, Add</i>	270.67	
<i>For 200 Mil Material, Add</i>	401.86	
<i>For 2 To 5 Manholes, Deduct</i>	-27.73	
<i>For 6 To 10 Manholes, Deduct</i>	-45.19	
<i>For >10 Manholes, Deduct</i>	-90.37	
33 05 84 00-0063 Polyvinyl Chloride (PVC) Liner <small>(33 05 84 00-0056)</small>		
Note: For new manholes and shop applied.		
33 05 84 00-0064 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	288.76	
33 05 84 00-0065 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	353.97	
33 05 84 00-0066 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	431.97	
33 05 84 00-0067 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	542.48	
33 05 84 00-0068 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	652.98	
33 05 84 00-0069 SF Polyvinyl Chloride (PVC) Liner At Structures.....	79.76	
33 05 84 00-0070 Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0001)</small>		
33 05 84 00-0071 18" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0070)</small>		
33 05 84 00-0072 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....	95.35	
33 05 84 00-0073 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	104.49	
33 05 84 00-0074 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	113.64	
33 05 84 00-0075 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	122.78	
33 05 84 00-0076 24" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0070)</small>		
33 05 84 00-0077 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	107.10	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0078 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	117.50	
33 05 84 00-0079 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	127.89	
33 05 84 00-0080 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	138.28	
33 05 84 00-0081 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0082 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	118.60	
33 05 84 00-0083 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	130.19	
33 05 84 00-0084 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	141.78	
33 05 84 00-0085 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	153.37	
33 05 84 00-0086 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0087 Bentonite Collar At Manhole Connections (33 05 84 00-0086)		
33 05 84 00-0088 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	156.45	
33 05 84 00-0089 EA >12" To 21", Bentonite Collar At Manhole Connection	247.83	
33 05 84 00-0090 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	392.61	
33 05 84 00-0091 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	917.59	
33 05 84 00-0092 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,432.82	
33 05 84 00-0093 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,602.40	
33 05 84 00-0094 Expanded Polypropylene (EPP) Finish Ring (33 05 84 00-0001)		
33 05 84 00-0095 EA 34" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	107.04	
33 05 84 00-0096 EA 34" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	109.33	
33 05 84 00-0097 EA 34" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	116.05	
33 05 84 00-0098 EA 34" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	122.77	
33 05 84 00-0099 EA 34" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	129.49	
33 05 84 00-0100 EA 34" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	136.21	
33 05 84 00-0101 EA 34" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	148.24	
33 05 84 00-0102 EA 34" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	119.61	
33 05 84 00-0103 EA 36" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	112.83	
33 05 84 00-0104 EA 36" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	115.29	
33 05 84 00-0105 EA 36" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	122.47	
33 05 84 00-0106 EA 36" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	129.66	
33 05 84 00-0107 EA 36" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	136.85	
33 05 84 00-0108 EA 36" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	144.04	
33 05 84 00-0109 EA 36" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	156.90	
33 05 84 00-0110 EA 36" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	126.29	
33 05 84 00-0111 EA 40" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	125.82	
33 05 84 00-0112 EA 40" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	128.82	
33 05 84 00-0113 EA 40" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	137.78	
33 05 84 00-0114 EA 40" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	146.76	
33 05 84 00-0115 EA 40" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	154.59	
33 05 84 00-0116 EA 40" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	162.42	
33 05 84 00-0117 EA 40" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	175.63	
33 05 84 00-0118 EA 40" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	142.25	
33 05 84 00-0119 EA 46" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	140.10	
33 05 84 00-0120 EA 46" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	143.71	
33 05 84 00-0121 EA 46" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	154.69	
33 05 84 00-0122 EA 46" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	165.68	
33 05 84 00-0123 EA 46" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	174.23	
33 05 84 00-0124 EA 46" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	182.77	
33 05 84 00-0125 EA 46" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	196.41	
33 05 84 00-0126 EA 46" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	159.88	
33 05 84 00-0127 Expanded Polypropylene (EPP) Grade Ring (33 05 84 00-0001)		
33 05 84 00-0128 EA 34" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	136.21	
33 05 84 00-0129 EA 34" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	188.87	
33 05 84 00-0130 EA 34" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	237.02	
33 05 84 00-0131 EA 36" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	144.04	
33 05 84 00-0132 EA 36" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	200.34	
33 05 84 00-0133 EA 36" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	251.85	
33 05 84 00-0134 EA 40" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	162.42	
33 05 84 00-0135 EA 40" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	224.38	
33 05 84 00-0136 EA 40" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	281.52	
33 05 84 00-0137 EA 46" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	182.77	
33 05 84 00-0138 EA 46" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	251.14	
33 05 84 00-0139 EA 46" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	314.62	
33 05 84 00-0140 Waste Water Collection System Taps (33 05 84)		
Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0141 Brick Manhole Taps (33 05 84 00-0140)		
33 05 84 00-0142 EA 4" Tap In 6" Brick Manhole	569.33	
33 05 84 00-0143 EA 6" Tap In 6" Brick Manhole	635.73	
33 05 84 00-0144 EA 8" Tap In 6" Brick Manhole	700.94	
33 05 84 00-0145 EA 10" Tap In 6" Brick Manhole	766.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 05 84 00-0146	EA	12" Tap In 6" Brick Manhole	845.75
33 05 84 00-0147	EA	15" Tap In 6" Brick Manhole	910.69

33 05 84 00-0148 Precast Concrete Manhole Tap (33 05 84 00-0140)

33 05 84 00-0149	EA	4" Tap In Existing Precast Concrete Manhole	830.28
33 05 84 00-0150	EA	6" Tap In Existing Precast Concrete Manhole	929.87
33 05 84 00-0151	EA	8" Tap In Existing Precast Concrete Manhole	1,040.18
33 05 84 00-0152	EA	10" Tap In Existing Precast Concrete Manhole	1,137.80
33 05 84 00-0153	EA	12" Tap In Existing Precast Concrete Manhole	1,235.23
33 05 84 00-0154	EA	15" Tap In Existing Precast Concrete Manhole	1,335.02
33 05 84 00-0155	EA	18" Tap In Existing Precast Concrete Manhole	1,537.99
33 05 84 00-0156	EA	24" Tap In Existing Precast Concrete Manhole	1,977.96

33 05 97 Identification and Signage for Utilities (33 05)

33 05 97 16 Markers for Utility Identification (33 05 97)

33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)

33 05 97 16-0002	EA	Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	50.01
33 05 97 16-0003	EA	Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	53.81
33 05 97 16-0004	EA	Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	61.41
33 05 97 16-0005	EA	Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	65.21
33 05 97 16-0006	EA	Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	69.01
33 05 97 16-0007	EA	Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	58.56
33 05 97 16-0008	EA	Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	50.96
33 05 97 16-0009	EA	Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	54.76
33 05 97 16-0010	EA	Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	54.76
33 05 97 16-0011	EA	Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	58.56
33 05 97 16-0012	EA	Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	62.36
33 05 97 16-0013	EA	Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	66.16
33 05 97 16-0014	EA	Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	100.36
33 05 97 16-0015	EA	Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	65.21
33 05 97 16-0016	EA	Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	105.11
33 05 97 16-0017	EA	Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	100.36
33 05 97 16-0018	EA	Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	104.16
33 05 97 16-0019	EA	Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	105.11
33 05 97 16-0020	EA	Relocate Delineator	62.03

33 05 97 16-0021 Reference Markers (33 05 97 16)

33 05 97 16-0022	EA	Reference Marker, 4' Mounting Height	99.17
33 05 97 16-0023	EA	Reference Marker, 7' Mounting Height	124.06
33 05 97 16-0024	EA	Reference Marker, Band Or Bracket Mounted.....	116.80
33 05 97 16-0025	EA	Reference Marker, Furnish Panel Only.....	106.81
33 05 97 16-0026	EA	Relocate Reference Marker	62.03

33 05 97 16-0027 Object Markers (33 05 97 16)

33 05 97 16-0028	EA	Object Marker, Type L-1	95.26
33 05 97 16-0029	EA	Object Marker, Type L-2	87.74
33 05 97 16-0030	EA	Object Marker, Type K-1	101.28
33 05 97 16-0031	EA	Object Marker, Type K-2	93.75
33 05 97 16-0032	EA	Object Marker, Type Q	63.66

33 10 Water Utilities (33)

33 11 Groundwater Sources (33 10)

33 11 13 Potable Water Supply Wells (33 11)

33 11 13 00-0001		Drill And Test Water Well <small>(33 11 13)</small>	
33 11 13 00-0002		Drill Hole <small>(33 11 13 00-0001)</small> Note: Excludes loading and hauling of spoils.	
33 11 13 00-0003		Mobilization And Demobilization <small>(33 11 13 00-0002)</small>	
33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	1,063.53
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,302.67
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,954.01
33 11 13 00-0007		Drill Hole In Normal Soil, Sand, Gravel, O.B. <small>(33 11 13 00-0002)</small> Note: Excludes well casing, gravel or materials.	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11	13 00-0008	LF	Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	25.24	
			For>100 To 250, Add	0.63	
			For>250 To 400, Add	1.26	
			For>400 To 600, Add	1.89	
			For>600 To 750, Add	2.52	
			For>750, Add	3.16	
33 11	13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	29.96	
			For>100 To 250, Add	0.75	
			For>250 To 400, Add	1.50	
			For>400 To 600, Add	2.25	
			For>600 To 750, Add	3.00	
			For>750, Add	3.75	
33 11	13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	40.06	
			For>100 To 250, Add	1.00	
			For>250 To 400, Add	2.00	
			For>400 To 600, Add	3.00	
			For>600 To 750, Add	4.01	
			For>750, Add	5.01	
33 11	13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	62.69	
			For>100 To 250, Add	1.57	
			For>250 To 400, Add	3.13	
			For>400 To 600, Add	4.70	
			For>600 To 750, Add	6.27	
			For>750, Add	7.84	
33 11	13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	90.21	
			For>100 To 250, Add	2.26	
			For>250 To 400, Add	4.51	
			For>400 To 600, Add	6.77	
			For>600 To 750, Add	9.02	
			For>750, Add	11.28	
33 11	13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	117.89	
			For>100 To 250, Add	2.95	
			For>250 To 400, Add	5.89	
			For>400 To 600, Add	8.84	
			For>600 To 750, Add	11.79	
			For>750, Add	14.74	
33 11	13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	140.03	
			For>100 To 250, Add	3.50	
			For>250 To 400, Add	7.00	
			For>400 To 600, Add	10.50	
			For>600 To 750, Add	14.00	
			For>750, Add	17.50	
33 11	13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	162.84	
			For>100 To 250, Add	4.07	
			For>250 To 400, Add	8.14	
			For>400 To 600, Add	12.21	
			For>600 To 750, Add	16.28	
			For>750, Add	20.36	
33 11	13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	191.33	
			For>100 To 250, Add	4.78	
			For>250 To 400, Add	9.57	
			For>400 To 600, Add	14.35	
			For>600 To 750, Add	19.13	
			For>750, Add	23.92	
33 11	13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	225.53	
			For>100 To 250, Add	5.64	
			For>250 To 400, Add	11.28	
			For>400 To 600, Add	16.91	
			For>600 To 750, Add	22.55	
			For>750, Add	28.19	
33 11	13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	243.77	
			For>100 To 250, Add	6.09	
			For>250 To 400, Add	12.19	
			For>400 To 600, Add	18.28	
			For>600 To 750, Add	24.38	
			For>750, Add	30.47	
33 11	13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	268.18	
			For>100 To 250, Add	6.70	
			For>250 To 400, Add	13.41	
			For>400 To 600, Add	20.11	
			For>600 To 750, Add	26.82	
			For>750, Add	33.52	
33 11	13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	293.75	
			For>100 To 250, Add	7.34	
			For>250 To 400, Add	14.69	
			For>400 To 600, Add	22.03	
			For>600 To 750, Add	29.38	
			For>750, Add	36.72	
33 11	13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	365.40	
			For>100 To 250, Add	9.14	
			For>250 To 400, Add	18.27	
			For>400 To 600, Add	27.41	
			For>600 To 750, Add	36.54	
			For>750, Add	45.68	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0022 Drill Hole In Sedimentary Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	51.46	
<i>For >100 To 250, Add</i>	1.29	
<i>For >250 To 400, Add</i>	2.57	
<i>For >400 To 600, Add</i>	3.86	
<i>For >600 To 750, Add</i>	5.15	
<i>For >750, Add</i>	6.43	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	59.93	
<i>For >100 To 250, Add</i>	1.50	
<i>For >250 To 400, Add</i>	3.00	
<i>For >400 To 600, Add</i>	4.49	
<i>For >600 To 750, Add</i>	5.99	
<i>For >750, Add</i>	7.49	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	95.94	
<i>For >100 To 250, Add</i>	2.40	
<i>For >250 To 400, Add</i>	4.80	
<i>For >400 To 600, Add</i>	7.20	
<i>For >600 To 750, Add</i>	9.59	
<i>For >750, Add</i>	11.99	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	125.44	
<i>For >100 To 250, Add</i>	3.14	
<i>For >250 To 400, Add</i>	6.27	
<i>For >400 To 600, Add</i>	9.41	
<i>For >600 To 750, Add</i>	12.54	
<i>For >750, Add</i>	15.68	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	180.55	
<i>For >100 To 250, Add</i>	4.51	
<i>For >250 To 400, Add</i>	9.03	
<i>For >400 To 600, Add</i>	13.54	
<i>For >600 To 750, Add</i>	18.06	
<i>For >750, Add</i>	22.57	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	235.65	
<i>For >100 To 250, Add</i>	5.89	
<i>For >250 To 400, Add</i>	11.78	
<i>For >400 To 600, Add</i>	17.67	
<i>For >600 To 750, Add</i>	23.57	
<i>For >750, Add</i>	29.46	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	280.21	
<i>For >100 To 250, Add</i>	7.01	
<i>For >250 To 400, Add</i>	14.01	
<i>For >400 To 600, Add</i>	21.02	
<i>For >600 To 750, Add</i>	28.02	
<i>For >750, Add</i>	35.03	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	325.14	
<i>For >100 To 250, Add</i>	8.13	
<i>For >250 To 400, Add</i>	16.26	
<i>For >400 To 600, Add</i>	24.39	
<i>For >600 To 750, Add</i>	32.51	
<i>For >750, Add</i>	40.64	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	382.99	
<i>For >100 To 250, Add</i>	9.57	
<i>For >250 To 400, Add</i>	19.15	
<i>For >400 To 600, Add</i>	28.72	
<i>For >600 To 750, Add</i>	38.30	
<i>For >750, Add</i>	47.87	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	442.38	
<i>For >100 To 250, Add</i>	11.06	
<i>For >250 To 400, Add</i>	22.12	
<i>For >400 To 600, Add</i>	33.18	
<i>For >600 To 750, Add</i>	44.24	
<i>For >750, Add</i>	55.30	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	487.52	
<i>For >100 To 250, Add</i>	12.19	
<i>For >250 To 400, Add</i>	24.38	
<i>For >400 To 600, Add</i>	36.56	
<i>For >600 To 750, Add</i>	48.75	
<i>For >750, Add</i>	60.94	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	536.38	
<i>For >100 To 250, Add</i>	13.41	
<i>For >250 To 400, Add</i>	26.82	
<i>For >400 To 600, Add</i>	40.23	
<i>For >600 To 750, Add</i>	53.64	
<i>For >750, Add</i>	67.05	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	587.50	
<i>For >100 To 250, Add</i>	14.69	
<i>For >250 To 400, Add</i>	29.38	
<i>For >400 To 600, Add</i>	44.06	
<i>For >600 To 750, Add</i>	58.75	
<i>For >750, Add</i>	73.44	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	730.79	
<i>For >100 To 250, Add</i>	18.27	
<i>For >250 To 400, Add</i>	36.54	
<i>For >400 To 600, Add</i>	54.81	
<i>For >600 To 750, Add</i>	73.08	
<i>For >750, Add</i>	91.35	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 11 13 00-0037		Drill Hole In Crystalline Rock (33 11 13 00-0002)	
33 11 13 00-0038	LF	6" Water Well Hole Drilled In Crystalline Rock.....	105.85
		For>100 To 250, Add	2.65
		For>250 To 400, Add	5.29
		For>400 To 600, Add	7.94
		For>600 To 750, Add	10.59
		For>750, Add	13.23
33 11 13 00-0039	LF	8" Water Well Hole Drilled In Crystalline Rock.....	122.13
		For>100 To 250, Add	3.05
		For>250 To 400, Add	6.11
		For>400 To 600, Add	9.16
		For>600 To 750, Add	12.21
		For>750, Add	15.27
33 11 13 00-0040	LF	10" Water Well Hole Drilled In Crystalline Rock.....	140.03
		For>100 To 250, Add	3.50
		For>250 To 400, Add	7.00
		For>400 To 600, Add	10.50
		For>600 To 750, Add	14.00
		For>750, Add	17.50
33 11 13 00-0041	LF	12" Water Well Hole Drilled In Crystalline Rock.....	177.49
		For>100 To 250, Add	4.44
		For>250 To 400, Add	8.87
		For>400 To 600, Add	13.31
		For>600 To 750, Add	17.75
		For>750, Add	22.19
33 11 13 00-0042	LF	14" Water Well Hole Drilled In Crystalline Rock.....	229.60
		For>100 To 250, Add	5.74
		For>250 To 400, Add	11.48
		For>400 To 600, Add	17.22
		For>600 To 750, Add	22.96
		For>750, Add	28.70
33 11 13 00-0043	LF	16" Water Well Hole Drilled In Crystalline Rock.....	333.81
		For>100 To 250, Add	8.35
		For>250 To 400, Add	16.69
		For>400 To 600, Add	25.04
		For>600 To 750, Add	33.38
		For>750, Add	41.73
33 11 13 00-0044	LF	18" Water Well Hole Drilled In Crystalline Rock.....	397.31
		For>100 To 250, Add	9.93
		For>250 To 400, Add	19.87
		For>400 To 600, Add	29.80
		For>600 To 750, Add	39.73
		For>750, Add	49.66
33 11 13 00-0045	LF	20" Water Well Hole Drilled In Crystalline Rock.....	460.82
		For>100 To 250, Add	11.52
		For>250 To 400, Add	23.04
		For>400 To 600, Add	34.56
		For>600 To 750, Add	46.08
		For>750, Add	57.60
33 11 13 00-0046	LF	22" Water Well Hole Drilled In Crystalline Rock.....	542.24
		For>100 To 250, Add	13.56
		For>250 To 400, Add	27.11
		For>400 To 600, Add	40.67
		For>600 To 750, Add	54.22
		For>750, Add	67.78
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock.....	626.91
		For>100 To 250, Add	15.67
		For>250 To 400, Add	31.35
		For>400 To 600, Add	47.02
		For>600 To 750, Add	62.69
		For>750, Add	78.36
33 11 13 00-0048		Furnish And Install Casing (33 11 13 00-0001)	
		Note: Excludes drilling of hole.	
33 11 13 00-0049		Steel Well Casing (33 11 13 00-0048)	
33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush.....	50.89
		For>100 To 250, Deduct	-1.50
		For>250 To 400, Deduct	-2.77
		For>400 To 600, Deduct	-4.15
		For>600 To 750, Deduct	-5.54
		For>750, Deduct	-7.22
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush.....	63.25
		For>100 To 250, Deduct	-1.86
		For>250 To 400, Deduct	-3.44
		For>400 To 600, Deduct	-5.17
		For>600 To 750, Deduct	-6.89
		For>750, Deduct	-8.97



	Utilities	33	
	Water Utilities	33 10	CS
	Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	94.22	
For >100 To 250, Deduct	-2.69	
For >250 To 400, Deduct	-5.05	
For >400 To 600, Deduct	-7.57	
For >600 To 750, Deduct	-10.10	
For >750, Deduct	-13.06	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	159.23	
For >100 To 250, Deduct	-4.39	
For >250 To 400, Deduct	-8.37	
For >400 To 600, Deduct	-12.55	
For >600 To 750, Deduct	-16.73	
For >750, Deduct	-21.44	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	177.82	
For >100 To 250, Deduct	-5.01	
For >250 To 400, Deduct	-9.45	
For >400 To 600, Deduct	-14.18	
For >600 To 750, Deduct	-18.91	
For >750, Deduct	-24.36	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	208.51	
For >100 To 250, Deduct	-5.91	
For >250 To 400, Deduct	-11.12	
For >400 To 600, Deduct	-16.68	
For >600 To 750, Deduct	-22.25	
For >750, Deduct	-28.71	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush.....	237.32	
For >100 To 250, Deduct	-6.81	
For >250 To 400, Deduct	-12.74	
For >400 To 600, Deduct	-19.11	
For >600 To 750, Deduct	-25.49	
For >750, Deduct	-33.00	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush.....	270.01	
For >100 To 250, Deduct	-7.83	
For >250 To 400, Deduct	-14.58	
For >400 To 600, Deduct	-21.87	
For >600 To 750, Deduct	-29.16	
For >750, Deduct	-37.85	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush.....	315.92	
For >100 To 250, Deduct	-9.11	
For >250 To 400, Deduct	-17.01	
For >400 To 600, Deduct	-25.52	
For >600 To 750, Deduct	-34.02	
For >750, Deduct	-44.10	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install.....	1.59	
For >100 To 250, Deduct	-0.06	
For >250 To 400, Deduct	-0.10	
For >400 To 600, Deduct	-0.14	
For >600 To 750, Deduct	-0.19	
For >750, Deduct	-0.26	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush.....	112.49	
For >100 To 250, Deduct	-3.04	
For >250 To 400, Deduct	-5.85	
For >400 To 600, Deduct	-8.77	
For >600 To 750, Deduct	-11.70	
For >750, Deduct	-14.92	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush.....	169.70	
For >100 To 250, Deduct	-4.52	
For >250 To 400, Deduct	-8.77	
For >400 To 600, Deduct	-13.15	
For >600 To 750, Deduct	-17.53	
For >750, Deduct	-22.28	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush.....	237.55	
For >100 To 250, Deduct	-6.30	
For >250 To 400, Deduct	-12.24	
For >400 To 600, Deduct	-18.36	
For >600 To 750, Deduct	-24.47	
For >750, Deduct	-31.06	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush.....	276.14	
For >100 To 250, Deduct	-7.33	
For >250 To 400, Deduct	-14.23	
For >400 To 600, Deduct	-21.35	
For >600 To 750, Deduct	-28.47	
For >750, Deduct	-36.14	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded.....	248.35	
For >100 To 250, Deduct	-6.84	
For >250 To 400, Deduct	-13.05	
For >400 To 600, Deduct	-19.57	
For >600 To 750, Deduct	-26.09	
For >750, Deduct	-33.44	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0067	LF		12" Diameter, Stainless Steel Well Casing, Welded	287.84	
			<i>For >100 To 250, Deduct</i>	-7.92	
			<i>For >250 To 400, Deduct</i>	-15.11	
			<i>For >400 To 600, Deduct</i>	-22.67	
			<i>For >600 To 750, Deduct</i>	-30.22	
			<i>For >750, Deduct</i>	-38.71	
33 11 13 00-0068	LF		14" Diameter, Stainless Steel Well Casing, Welded	346.66	
			<i>For >100 To 250, Deduct</i>	-9.48	
			<i>For >250 To 400, Deduct</i>	-18.14	
			<i>For >400 To 600, Deduct</i>	-27.21	
			<i>For >600 To 750, Deduct</i>	-36.29	
			<i>For >750, Deduct</i>	-46.41	
33 11 13 00-0069	LF		16" Diameter, Stainless Steel Well Casing, Welded	397.00	
			<i>For >100 To 250, Deduct</i>	-10.85	
			<i>For >250 To 400, Deduct</i>	-20.77	
			<i>For >400 To 600, Deduct</i>	-31.16	
			<i>For >600 To 750, Deduct</i>	-41.54	
			<i>For >750, Deduct</i>	-53.13	
33 11 13 00-0070	LF		18" Diameter, Stainless Steel Well Casing, Welded	437.86	
			<i>For >100 To 250, Deduct</i>	-12.00	
			<i>For >250 To 400, Deduct</i>	-22.95	
			<i>For >400 To 600, Deduct</i>	-34.42	
			<i>For >600 To 750, Deduct</i>	-45.90	
			<i>For >750, Deduct</i>	-58.75	
33 11 13 00-0071	LF		20" Diameter, Stainless Steel Well Casing, Welded	575.48	
			<i>For >100 To 250, Deduct</i>	-15.65	
			<i>For >250 To 400, Deduct</i>	-30.03	
			<i>For >400 To 600, Deduct</i>	-45.05	
			<i>For >600 To 750, Deduct</i>	-60.07	
			<i>For >750, Deduct</i>	-76.72	
33 11 13 00-0072	LF		24" Diameter, Stainless Steel Well Casing, Welded	759.40	
			<i>For >100 To 250, Deduct</i>	-20.56	
			<i>For >250 To 400, Deduct</i>	-39.54	
			<i>For >400 To 600, Deduct</i>	-59.32	
			<i>For >600 To 750, Deduct</i>	-79.09	
			<i>For >750, Deduct</i>	-100.91	
33 11 13 00-0073			Polyvinyl Chloride (PVC) Well Casing, Schedule 80 <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074	LF		6" Polyvinyl Chloride (PVC) Well Casing	79.11	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 400, Deduct</i>	-4.14	
			<i>For >400 To 600, Deduct</i>	-6.20	
			<i>For >600 To 750, Deduct</i>	-8.27	
			<i>For >750, Deduct</i>	-10.57	
33 11 13 00-0075	LF		8" Polyvinyl Chloride (PVC) Well Casing	125.77	
			<i>For >100 To 250, Deduct</i>	-3.43	
			<i>For >250 To 400, Deduct</i>	-6.57	
			<i>For >400 To 600, Deduct</i>	-9.85	
			<i>For >600 To 750, Deduct</i>	-13.14	
			<i>For >750, Deduct</i>	-16.79	
33 11 13 00-0076	LF		10" Polyvinyl Chloride (PVC) Well Casing	190.01	
			<i>For >100 To 250, Deduct</i>	-5.18	
			<i>For >250 To 400, Deduct</i>	-9.93	
			<i>For >400 To 600, Deduct</i>	-14.89	
			<i>For >600 To 750, Deduct</i>	-19.86	
			<i>For >750, Deduct</i>	-25.37	
33 11 13 00-0077	LF		12" Polyvinyl Chloride (PVC) Well Casing	223.78	
			<i>For >100 To 250, Deduct</i>	-6.11	
			<i>For >250 To 400, Deduct</i>	-11.71	
			<i>For >400 To 600, Deduct</i>	-17.56	
			<i>For >600 To 750, Deduct</i>	-23.41	
			<i>For >750, Deduct</i>	-29.94	
33 11 13 00-0078			Furnish And Install Well Screen Assembly <small>(33 11 13 00-0001)</small>		
33 11 13 00-0079			Stainless Steel Well Screen <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080	LF		2" Stainless Steel Well Screen.....	32.65	1.80
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 400, Deduct</i>	-1.86	
			<i>For >400 To 600, Deduct</i>	-2.79	
			<i>For >600 To 750, Deduct</i>	-3.73	
			<i>For >750, Deduct</i>	-4.96	
33 11 13 00-0081	LF		3" Stainless Steel Well Screen.....	53.56	1.80
			<i>For >100 To 250, Deduct</i>	-1.59	
			<i>For >250 To 400, Deduct</i>	-2.93	
			<i>For >400 To 600, Deduct</i>	-4.39	
			<i>For >600 To 750, Deduct</i>	-5.85	
			<i>For >750, Deduct</i>	-7.64	
33 11 13 00-0082	LF		4" Stainless Steel Well Screen.....	67.25	2.70
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 400, Deduct</i>	-3.68	
			<i>For >400 To 600, Deduct</i>	-5.52	
			<i>For >600 To 750, Deduct</i>	-7.35	
			<i>For >750, Deduct</i>	-9.60	



	Utilities	33	CS
	Water Utilities	33 10	
	Groundwater Sources	33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0083	LF		5" Stainless Steel Well Screen	85.37	2.70
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 400, Deduct</i>	-4.64	
			<i>For >400 To 600, Deduct</i>	-6.96	
			<i>For >600 To 750, Deduct</i>	-9.29	
			<i>For >750, Deduct</i>	-12.10	
33 11 13 00-0084	LF		6" Stainless Steel Well Screen	101.64	3.60
			<i>For >100 To 250, Deduct</i>	-3.04	
			<i>For >250 To 400, Deduct</i>	-5.58	
			<i>For >400 To 600, Deduct</i>	-8.37	
			<i>For >600 To 750, Deduct</i>	-11.16	
			<i>For >750, Deduct</i>	-14.60	
33 11 13 00-0085	LF		8" Stainless Steel Well Screen	132.86	4.49
			<i>For >100 To 250, Deduct</i>	-3.96	
			<i>For >250 To 400, Deduct</i>	-7.28	
			<i>For >400 To 600, Deduct</i>	-10.92	
			<i>For >600 To 750, Deduct</i>	-14.56	
			<i>For >750, Deduct</i>	-19.04	
33 11 13 00-0086	LF		10" Stainless Steel Well Screen	167.82	7.20
			<i>For >100 To 250, Deduct</i>	-5.06	
			<i>For >250 To 400, Deduct</i>	-9.25	
			<i>For >400 To 600, Deduct</i>	-13.88	
			<i>For >600 To 750, Deduct</i>	-18.51	
			<i>For >750, Deduct</i>	-24.26	
33 11 13 00-0087	LF		12" Stainless Steel Well Screen	196.95	8.99
			<i>For >100 To 250, Deduct</i>	-5.93	
			<i>For >250 To 400, Deduct</i>	-10.85	
			<i>For >400 To 600, Deduct</i>	-16.28	
			<i>For >600 To 750, Deduct</i>	-21.71	
			<i>For >750, Deduct</i>	-28.45	
33 11 13 00-0088	LF		14" Stainless Steel Well Screen	215.41	9.89
			<i>For >100 To 250, Deduct</i>	-6.54	
			<i>For >250 To 400, Deduct</i>	-11.93	
			<i>For >400 To 600, Deduct</i>	-17.90	
			<i>For >600 To 750, Deduct</i>	-23.86	
			<i>For >750, Deduct</i>	-31.33	
33 11 13 00-0089	LF		16" Stainless Steel Well Screen	232.45	11.69
			<i>For >100 To 250, Deduct</i>	-7.11	
			<i>For >250 To 400, Deduct</i>	-12.93	
			<i>For >400 To 600, Deduct</i>	-19.39	
			<i>For >600 To 750, Deduct</i>	-25.85	
			<i>For >750, Deduct</i>	-34.01	
33 11 13 00-0090	LF		18" Stainless Steel Well Screen	278.38	13.49
			<i>For >100 To 250, Deduct</i>	-8.57	
			<i>For >250 To 400, Deduct</i>	-15.53	
			<i>For >400 To 600, Deduct</i>	-23.29	
			<i>For >600 To 750, Deduct</i>	-31.05	
			<i>For >750, Deduct</i>	-40.90	
33 11 13 00-0091	LF		20" Stainless Steel Well Screen	351.23	17.08
			<i>For >100 To 250, Deduct</i>	-10.80	
			<i>For >250 To 400, Deduct</i>	-19.58	
			<i>For >400 To 600, Deduct</i>	-29.37	
			<i>For >600 To 750, Deduct</i>	-39.16	
			<i>For >750, Deduct</i>	-51.57	
33 11 13 00-0092	LF		24" Stainless Steel Well Screen	455.21	22.48
			<i>For >100 To 250, Deduct</i>	-14.03	
			<i>For >250 To 400, Deduct</i>	-25.41	
			<i>For >400 To 600, Deduct</i>	-38.11	
			<i>For >600 To 750, Deduct</i>	-50.81	
			<i>For >750, Deduct</i>	-66.95	
33 11 13 00-0093	LF		26" Stainless Steel Well Screen	525.69	26.08
			<i>For >100 To 250, Deduct</i>	-16.14	
			<i>For >250 To 400, Deduct</i>	-29.28	
			<i>For >400 To 600, Deduct</i>	-43.92	
			<i>For >600 To 750, Deduct</i>	-58.57	
			<i>For >750, Deduct</i>	-77.10	
33 11 13 00-0094			Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>	21.11	
33 11 13 00-0095	LF		1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	21.11	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 400, Deduct</i>	-1.23	
			<i>For >400 To 600, Deduct</i>	-1.84	
			<i>For >600 To 750, Deduct</i>	-2.45	
			<i>For >750, Deduct</i>	-3.28	
			<i>For Schedule 80, Add</i>	5.72	
33 11 13 00-0096	LF		1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	24.43	
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 400, Deduct</i>	-1.40	
			<i>For >400 To 600, Deduct</i>	-2.10	
			<i>For >600 To 750, Deduct</i>	-2.81	
			<i>For >750, Deduct</i>	-3.74	
			<i>For Schedule 80, Add</i>	6.87	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	33.02	
For >100 To 250, Deduct	-1.15	
For >250 To 400, Deduct	-1.98	
For >400 To 600, Deduct	-2.96	
For >600 To 750, Deduct	-3.95	
For >750, Deduct	-5.36	
For Schedule 80, Add	8.01	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	51.21	
For >100 To 250, Deduct	-1.63	
For >250 To 400, Deduct	-2.91	
For >400 To 600, Deduct	-4.37	
For >600 To 750, Deduct	-5.82	
For >750, Deduct	-7.73	
For Schedule 80, Add	14.88	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	64.37	
For >100 To 250, Deduct	-2.05	
For >250 To 400, Deduct	-3.66	
For >400 To 600, Deduct	-5.49	
For >600 To 750, Deduct	-7.32	
For >750, Deduct	-9.73	
For Schedule 80, Add	18.66	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	81.20	
For >100 To 250, Deduct	-2.56	
For >250 To 400, Deduct	-4.59	
For >400 To 600, Deduct	-6.88	
For >600 To 750, Deduct	-9.18	
For >750, Deduct	-12.15	
For Schedule 80, Add	24.04	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	86.81	
For >100 To 250, Deduct	-2.87	
For >250 To 400, Deduct	-5.04	
For >400 To 600, Deduct	-7.57	
For >600 To 750, Deduct	-10.09	
For >750, Deduct	-13.52	
For Schedule 80, Add	23.47	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	127.57	
For >100 To 250, Deduct	-4.09	
For >250 To 400, Deduct	-7.28	
For >400 To 600, Deduct	-10.92	
For >600 To 750, Deduct	-14.56	
For >750, Deduct	-19.37	
For Schedule 80, Add	36.63	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen	18.31	
For >100 To 250, Deduct	-0.72	
For >250 To 400, Deduct	-1.17	
For >400 To 600, Deduct	-1.76	
For >600 To 750, Deduct	-2.35	
For >750, Deduct	-3.27	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen	27.09	
For >100 To 250, Deduct	-1.08	
For >250 To 400, Deduct	-1.76	
For >400 To 600, Deduct	-2.64	
For >600 To 750, Deduct	-3.52	
For >750, Deduct	-4.93	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen	37.87	
For >100 To 250, Deduct	-1.55	
For >250 To 400, Deduct	-2.50	
For >400 To 600, Deduct	-3.75	
For >600 To 750, Deduct	-5.00	
For >750, Deduct	-7.03	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen	48.47	
For >100 To 250, Deduct	-1.96	
For >250 To 400, Deduct	-3.17	
For >400 To 600, Deduct	-4.76	
For >600 To 750, Deduct	-6.35	
For >750, Deduct	-8.91	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen	59.68	
For >100 To 250, Deduct	-2.39	
For >250 To 400, Deduct	-3.88	
For >400 To 600, Deduct	-5.82	
For >600 To 750, Deduct	-7.76	
For >750, Deduct	-10.87	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen	77.12	
For >100 To 250, Deduct	-3.03	
For >250 To 400, Deduct	-4.96	
For >400 To 600, Deduct	-7.44	
For >600 To 750, Deduct	-9.92	
For >750, Deduct	-13.84	



	Utilities	33	
	Water Utilities	33 10	CS
	Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	88.37	
For >100 To 250, Deduct	-3.46	
For >250 To 400, Deduct	-5.67	
For >400 To 600, Deduct	-8.50	
For >600 To 750, Deduct	-11.34	
For >750, Deduct	-15.80	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	105.08	
For >100 To 250, Deduct	-4.15	
For >250 To 400, Deduct	-6.78	
For >400 To 600, Deduct	-10.17	
For >600 To 750, Deduct	-13.56	
For >750, Deduct	-18.93	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	118.96	
For >100 To 250, Deduct	-4.73	
For >250 To 400, Deduct	-7.70	
For >400 To 600, Deduct	-11.55	
For >600 To 750, Deduct	-15.40	
For >750, Deduct	-21.52	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	127.98	
For >100 To 250, Deduct	-5.03	
For >250 To 400, Deduct	-8.23	
For >400 To 600, Deduct	-12.34	
For >600 To 750, Deduct	-16.46	
For >750, Deduct	-22.95	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	152.82	
For >100 To 250, Deduct	-6.07	
For >250 To 400, Deduct	-9.89	
For >400 To 600, Deduct	-14.84	
For >600 To 750, Deduct	-19.78	
For >750, Deduct	-27.65	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	177.23	
For >100 To 250, Deduct	-7.18	
For >250 To 400, Deduct	-11.61	
For >400 To 600, Deduct	-17.41	
For >600 To 750, Deduct	-23.21	
For >750, Deduct	-32.58	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	450.71	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well	398.52	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....	105.32	
33 11 13 00-0123 Surface Seal, Concrete Filled <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....	33.89	
33 11 13 00-0125 Other Water Well <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing	97.28	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.43	
33 11 13 00-0128 SF 1" Pressure Grout Well	3.93	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	5.63	
33 11 13 00-0130 Sterilization Of Well <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,626.76	
33 11 13 00-0132 Submersible Well Pumps <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,439.26	505.68
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,639.56	560.48
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,819.79	622.76
33 11 13 00-0138 Stainless Steel Case And Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,612.14	498.20
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,837.34	560.48
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,058.98	622.76

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel		2,354.05	685.03
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel		2,659.76	747.30
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel		3,264.09	871.85
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel		4,089.85	996.41
33 11 13 00-0146		6" Submersible Well Pumps <small>(33 11 13 00-0132)</small>			
33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel		4,020.88	1,245.50
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel		4,626.38	1,370.06
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel		5,254.40	1,494.61
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel		6,352.49	1,743.71

33 14 Water Utility Transmission and Distribution (33 14)**33 14 11 Water Utility Transmission Piping** (33 14)

See CSI section 33 14 13 00-0000 for water utility transmission piping.

33 14 13 Public Water Utility Distribution Piping (33 14)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)**33 14 13 13-0001 Ductile Iron Piping** (33 14 13 13)**33 14 13 13-0002 Mechanical Joint Ductile Iron Piping** (33 14 13 13-0001)

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0484 for bolts and gaskets.

33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-0004	LF	3", Class 51, Mechanical Joint Ductile Iron Pipe		48.57	13.47
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		19.74	
		For Cement Mortar Lining (CML), Add		2.82	
		Note: ANSI/AWWA C104/A21.4			
		For 40 Mil Ceramic Epoxy Lining (P401), Add		15.23	
		For Fusion Bonded Epoxy Lining (206N), Add		5.08	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2.12	
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct		-2.43	
		For Class 52, Add		8.83	
		For Class 53, Add		15.88	
		For Class 54, Add		22.63	
		For Class 55, Add		26.05	
		For Class 56, Add		29.40	
33 14 13 13-0005	LF	4", Class 50, Mechanical Joint Ductile Iron Pipe		52.69	14.34
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		21.69	
		For Cement Mortar Lining (CML), Add		3.10	
		Note: ANSI/AWWA C104/A21.4			
		For 40 Mil Ceramic Epoxy Lining (P401), Add		16.73	
		For Fusion Bonded Epoxy Lining (206N), Add		5.58	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2.32	
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct		-2.63	
		For Class 51, Add		4.49	
		For Class 52, Add		9.68	
		For Class 53, Add		17.42	
		For Class 54, Add		24.83	
		For Class 55, Add		28.57	
		For Class 56, Add		32.25	
33 14 13 13-0006	LF	6", Class 50, Mechanical Joint Ductile Iron Pipe		56.37	15.04
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		23.54	
		For Cement Mortar Lining (CML), Add		3.36	
		Note: ANSI/AWWA C104/A21.4			
		For 40 Mil Ceramic Epoxy Lining (P401), Add		18.16	
		For Fusion Bonded Epoxy Lining (206N), Add		6.05	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2.52	
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct		-2.82	
		For Class 51, Add		4.87	
		For Class 52, Add		10.49	
		For Class 53, Add		18.88	
		For Class 54, Add		26.91	
		For Class 55, Add		30.97	
		For Class 56, Add		34.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	66.71	15.63
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.11	
For Cement Mortar Lining (CML), Add	4.30	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.23	
For Fusion Bonded Epoxy Lining (206N), Add	7.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.23	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.34	
For Class 51, Add	6.16	
For Class 52, Add	13.29	
For Class 53, Add	23.94	
For Class 54, Add	34.16	
For Class 55, Add	39.27	
For Class 56, Add	44.30	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	89.66	22.25
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	33.58	
For Cement Mortar Lining (CML), Add	5.60	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.98	
For Fusion Bonded Epoxy Lining (206N), Add	10.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.20	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.48	
For Class 51, Add	8.05	
For Class 52, Add	17.36	
For Class 53, Add	31.25	
For Class 54, Add	44.57	
For Class 55, Add	51.27	
For Class 56, Add	57.84	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	108.92	24.71
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.74	
For Cement Mortar Lining (CML), Add	7.15	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	28.59	
For Fusion Bonded Epoxy Lining (206N), Add	12.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.36	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.45	
For Class 51, Add	10.21	
For Class 52, Add	22.03	
For Class 53, Add	39.71	
For Class 54, Add	56.65	
For Class 55, Add	65.14	
For Class 56, Add	73.47	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	130.77	27.75
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	39.00	
For Cement Mortar Lining (CML), Add	8.86	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	30.14	
For Fusion Bonded Epoxy Lining (206N), Add	15.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.65	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.54	
For Class 51, Add	12.61	
For Class 52, Add	27.21	
For Class 53, Add	49.08	
For Class 54, Add	70.04	
For Class 55, Add	80.50	
For Class 56, Add	90.78	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	147.51	31.79
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	40.74	
For Cement Mortar Lining (CML), Add	9.94	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	30.80	
For Fusion Bonded Epoxy Lining (206N), Add	17.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.45	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.38	
For Class 51, Add	14.15	
For Class 52, Add	30.53	
For Class 53, Add	55.06	
For Class 54, Add	78.56	
For Class 55, Add	90.31	
For Class 56, Add	101.84	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0012	LF	18", Class 50, Mechanical Joint Ductile Iron Pipe.....	183.61	37.07
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	52.25	
			For Cement Mortar Lining (CML), Add	12.74	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	39.51	
			For Fusion Bonded Epoxy Lining (206N), Add	22.94	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.56	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-9.18	
			For Class 51, Add	18.07	
			For Class 52, Add	39.01	
			For Class 53, Add	70.40	
			For Class 54, Add	100.48	
			For Class 55, Add	115.47	
			For Class 56, Add	130.19	
33 14 13	13-0013	LF	20", Class 50, Mechanical Joint Ductile Iron Pipe.....	207.75	44.48
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	53.33	
			For Cement Mortar Lining (CML), Add	14.04	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	39.30	
			For Fusion Bonded Epoxy Lining (206N), Add	25.26	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.53	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-10.39	
			For Class 51, Add	19.97	
			For Class 52, Add	43.10	
			For Class 53, Add	77.74	
			For Class 54, Add	110.93	
			For Class 55, Add	127.51	
			For Class 56, Add	143.79	
33 14 13	13-0014	LF	24", Class 50, Mechanical Joint Ductile Iron Pipe.....	272.61	55.60
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	58.39	
			For Cement Mortar Lining (CML), Add	18.84	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	39.56	
			For Fusion Bonded Epoxy Lining (206N), Add	33.90	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.13	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-13.63	
			For Class 51, Add	26.73	
			For Class 52, Add	57.69	
			For Class 53, Add	104.10	
			For Class 54, Add	148.57	
			For Class 55, Add	170.74	
			For Class 56, Add	192.51	
33 14 13	13-0015	LF	30", Class 50, Mechanical Joint Ductile Iron Pipe.....	355.49	59.87
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	82.34	
			For Cement Mortar Lining (CML), Add	26.56	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	47.81	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.92	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-17.77	
			For Class 51, Add	37.33	
			For Class 52, Add	80.63	
			For Class 53, Add	145.72	
			For Class 54, Add	208.06	
			For Class 55, Add	238.96	
			For Class 56, Add	269.31	
33 14 13	13-0016	LF	36", Class 50, Mechanical Joint Ductile Iron Pipe.....	427.62	63.58
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	102.96	
			For Cement Mortar Lining (CML), Add	33.21	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	59.79	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.91	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-21.38	
			For Class 51, Add	46.46	
			For Class 52, Add	100.40	
			For Class 53, Add	181.57	
			For Class 54, Add	259.33	
			For Class 55, Add	297.75	
			For Class 56, Add	335.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	528.96	67.29
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	132.64	
For Cement Mortar Lining (CML), Add	42.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	77.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.09	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-26.45	
For Class 51, Add	59.58	
For Class 52, Add	128.79	
For Class 53, Add	233.08	
For Class 54, Add	332.97	
For Class 55, Add	382.19	
For Class 56, Add	430.52	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	652.07	71.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	169.06	
For Cement Mortar Lining (CML), Add	54.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	98.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.90	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-32.60	
For Class 51, Add	75.67	
For Class 52, Add	163.60	
For Class 53, Add	296.26	
For Class 54, Add	423.29	
For Class 55, Add	485.76	
For Class 56, Add	547.08	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	185.82	42.52
For Cement Mortar Lining (CML), Add	12.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	209.08	50.81
For Cement Mortar Lining (CML), Add	13.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	329.70	75.09
For Cement Mortar Lining (CML), Add	21.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	449.18	89.06
For Cement Mortar Lining (CML), Add	31.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	649.23	98.63
For Cement Mortar Lining (CML), Add	49.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	848.22	115.70
For Cement Mortar Lining (CML), Add	67.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,322.98	129.74
For Cement Mortar Lining (CML), Add	112.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	202.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.48	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,754.52	148.28
For Cement Mortar Lining (CML), Add	152.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	275.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	114.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	2,156.72	207.59
For Cement Mortar Lining (CML), Add	184.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	331.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow	2,961.93	259.49
For Cement Mortar Lining (CML), Add	256.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	462.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	192.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow	4,358.05	345.53
For Cement Mortar Lining (CML), Add	383.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	690.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow	6,714.97	370.70
For Cement Mortar Lining (CML), Add	615.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,107.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	461.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow	10,203.05	384.85
For Cement Mortar Lining (CML), Add	962.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,731.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	721.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow	17,170.29	444.84
For Cement Mortar Lining (CML), Add	1,649.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,969.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,237.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow	22,713.27	473.25
For Cement Mortar Lining (CML), Add	2,199.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,959.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,649.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow	173.32	42.52
For Cement Mortar Lining (CML), Add	10.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow	185.87	50.81
For Cement Mortar Lining (CML), Add	10.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow	288.64	75.09
For Cement Mortar Lining (CML), Add	17.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow	390.27	89.06
For Cement Mortar Lining (CML), Add	25.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.15	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0040	EA			10" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	522.49 37.31 67.16 27.98	98.63
33 14 13 13-0041	EA			12" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	732.19 55.70 100.25 41.77	115.70
33 14 13 13-0042	EA			14" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,073.06 87.65 157.77 65.74	129.74
33 14 13 13-0043	EA			16" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,317.16 109.25 196.65 81.94	148.28
33 14 13 13-0044	EA			18" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,881.82 156.73 282.12 117.55	207.59
33 14 13 13-0045	EA			20" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,067.58 167.44 301.40 125.58	259.49
33 14 13 13-0046	EA			24" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,067.41 254.38 457.88 190.79	345.53
33 14 13 13-0047	EA			30" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,729.58 516.79 930.23 387.59	370.70
33 14 13 13-0048	EA			36" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,139.45 755.64 1,360.15 566.73	384.85
33 14 13 13-0049	EA			42" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,284.42 1,161.04 2,089.88 870.78	444.84
33 14 13 13-0050	EA			48" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	15,931.60 1,521.46 2,738.62 1,141.09	473.25
33 14 13 13-0051				Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052	EA			3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	150.12 8.57 15.42 6.43	42.52

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0053	EA	4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	180.52		50.81
		<i>For Cement Mortar Lining (CML), Add</i>	10.35		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	18.64		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	7.77		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0054	EA	6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	274.36		75.09
		<i>For Cement Mortar Lining (CML), Add</i>	16.07		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	28.92		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	12.05		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0055	EA	8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	384.92		89.06
		<i>For Cement Mortar Lining (CML), Add</i>	24.99		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	44.99		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	18.74		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0056	EA	10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	520.70		98.63
		<i>For Cement Mortar Lining (CML), Add</i>	37.13		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	66.83		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	27.85		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0057	EA	12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	662.57		115.70
		<i>For Cement Mortar Lining (CML), Add</i>	48.73		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	87.72		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	36.55		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0058	EA	14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,083.77		129.74
		<i>For Cement Mortar Lining (CML), Add</i>	88.72		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	159.70		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	66.54		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0059	EA	16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,272.54		148.28
		<i>For Cement Mortar Lining (CML), Add</i>	104.79		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	188.62		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	78.59		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0060	EA	18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,601.55		207.59
		<i>For Cement Mortar Lining (CML), Add</i>	128.71		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	231.67		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	96.53		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,142.56		259.49
		<i>For Cement Mortar Lining (CML), Add</i>	174.94		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	314.90		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	131.21		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,871.04		345.53
		<i>For Cement Mortar Lining (CML), Add</i>	234.74		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	422.54		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	176.06		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,892.36		370.70
		<i>For Cement Mortar Lining (CML), Add</i>	433.07		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	779.53		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	324.80		
		<i>Note: ANSI/AWWA C151/A21.51</i>			
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,930.93		384.85
		<i>For Cement Mortar Lining (CML), Add</i>	634.79		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,142.62		
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	476.09		
		<i>Note: ANSI/AWWA C151/A21.51</i>			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,258.31 958.43 1,725.18 718.82	444.84
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,196.79 1,247.98 2,246.36 935.98	473.25
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	150.12 8.57 15.42 6.43	42.52
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	175.16 9.82 17.67 7.36	50.81
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	279.72 16.60 29.88 12.45	75.09
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	361.71 22.67 40.81 17.00	89.06
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	517.13 36.77 66.19 27.58	98.63
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	632.22 45.70 82.26 34.27	115.70
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,208.73 101.22 182.19 75.91	129.74
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,333.23 110.86 199.54 83.14	148.28
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,940.72 162.62 292.72 121.97	207.59
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,040.81 164.77 296.58 123.58	259.49

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,721.09 219.75 395.55 164.81	345.53
33 14 13	13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,970.91 440.93 793.67 330.69	370.70
33 14 13	13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,609.61 602.66 1,084.78 451.99	384.85
33 14 13	13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,820.95 914.70 1,646.45 686.02	444.84
33 14 13	13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,111.11 1,239.41 2,230.94 929.56	473.25
33 14 13	13-0083		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0083)</small>		
33 14 13	13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	191.17 12.67 22.81 9.51	42.52
33 14 13	13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	234.07 15.71 28.28 11.78	50.81
33 14 13	13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	374.33 26.06 46.91 19.55	75.09
33 14 13	13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	508.09 37.31 67.16 27.98	89.06
33 14 13	13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	734.92 58.55 105.39 43.91	98.63
33 14 13	13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	941.05 76.58 137.85 57.44	115.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,621.10 142.45 256.42 106.84	129.74
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,481.06 225.64 406.15 169.23	148.28
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,877.91 256.34 461.42 192.26	207.59
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,911.61 351.85 633.32 263.89	259.49
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,750.77 422.72 760.89 317.04	345.53
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,885.67 832.40 1,498.32 624.30	370.70
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	15,922.58 1,533.95 2,761.12 1,150.47	384.85
33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	175.11 11.07 19.92 8.30	42.52
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	191.23 11.43 20.57 8.57	50.81
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	308.28 19.46 35.02 14.59	75.09
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	447.40 31.24 56.23 23.43	89.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	613.53	98.63
			<i>For Cement Mortar Lining (CML), Add</i>	46.41	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	83.54	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	34.81	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	835.72	115.70
			<i>For Cement Mortar Lining (CML), Add</i>	66.05	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	118.89	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	49.54	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,433.66	129.74
			<i>For Cement Mortar Lining (CML), Add</i>	123.71	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	222.68	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	92.78	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,186.52	148.28
			<i>For Cement Mortar Lining (CML), Add</i>	196.19	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	353.13	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	147.14	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,579.80	207.59
			<i>For Cement Mortar Lining (CML), Add</i>	226.53	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	407.76	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	169.90	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	3,351.08	259.49
			<i>For Cement Mortar Lining (CML), Add</i>	295.79	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	532.43	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	221.85	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	4,209.88	345.53
			<i>For Cement Mortar Lining (CML), Add</i>	368.63	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	663.53	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	276.47	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	7,802.11	370.70
			<i>For Cement Mortar Lining (CML), Add</i>	724.05	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,303.28	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	543.03	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	13,928.60	384.85
			<i>For Cement Mortar Lining (CML), Add</i>	1,334.56	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	2,402.20	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	1,000.92	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0111		Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13	13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee.....	303.71	63.79
			<i>For Cement Mortar Lining (CML), Add</i>	20.71	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	37.27	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	15.53	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee.....	315.08	71.29
			<i>For Cement Mortar Lining (CML), Add</i>	20.71	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	37.27	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	15.53	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee.....	286.86	75.09
			<i>For Cement Mortar Lining (CML), Add</i>	17.32	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	31.17	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	12.99	
			<i>Note: ANSI/AWWA C151/A21.51</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	382.52 23.92 43.06 17.94	94.59
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	440.18 29.10 52.37 21.82	98.49
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	479.38 31.24 56.23 23.43	110.26
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	510.32 33.74 60.73 25.30	114.14
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	579.86 38.92 70.05 29.19	125.86
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	672.04 46.95 84.51 35.21	133.72
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	703.40 51.77 93.18 38.83	122.57
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	704.19 50.16 90.29 37.62	133.70
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	801.11 58.73 105.71 44.05	141.12
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	895.88 67.12 120.82 50.34	148.28
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	841.91 63.37 114.07 47.53	137.40
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	956.92 73.19 131.74 54.89	148.51

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,177.03 94.08 169.34 70.56	155.94
33 14 13	13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,261.07 101.40 182.51 76.05	163.11
33 14 13	13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,195.55 93.72 168.69 70.29	170.52
33 14 13	13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,276.16 101.40 182.51 76.05	173.06
33 14 13	13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,421.28 114.78 206.61 86.09	180.49
33 14 13	13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,817.73 153.34 276.02 115.01	187.64
33 14 13	13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,943.21 164.77 296.58 123.58	195.06
33 14 13	13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,874.32 156.02 280.83 117.01	207.37
33 14 13	13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,622.91 130.85 235.53 98.14	207.58
33 14 13	13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,746.72 142.10 255.77 106.57	215.01
33 14 13	13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,036.05 169.94 305.90 127.46	222.16
33 14 13	13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,229.37 188.15 338.67 141.11	229.58



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0139	EA		16" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,685.31 231.89	241.86
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	417.40	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	173.92	
33 14 13	13-0140	EA		16" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,536.52 214.39	259.16
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	385.91	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	160.79	
33 14 13	13-0141	EA		18" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,255.47 185.30	265.67
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	333.53	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	138.97	
33 14 13	13-0142	EA		18" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,420.24 200.65	273.08
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	361.16	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	150.49	
33 14 13	13-0143	EA		18" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,620.31 219.57	280.25
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	395.23	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	164.68	
33 14 13	13-0144	EA		18" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,818.99 238.31	287.66
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	428.97	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	178.74	
33 14 13	13-0145	EA		18" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,900.06 244.56	299.93
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	440.21	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	183.42	
33 14 13	13-0146	EA		18" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	3,095.79 261.52	317.19
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	470.74	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	196.14	
33 14 13	13-0147	EA		18" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	3,627.13 310.25	346.21
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	558.46	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	232.69	
33 14 13	13-0148	EA		20" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,662.24 208.50	380.97
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	375.30	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	156.38	
33 14 13	13-0149	EA		20" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,719.89 213.14	388.38
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	383.66	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	159.86	
33 14 13	13-0150	EA		20" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,964.60 236.53	395.55
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	425.75	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	177.40	

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 14 13 13-0151	EA 20" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,207.89 259.74 467.52 194.80	402.96
33 14 13 13-0152	EA 20" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,246.13 261.70 471.06 196.27	415.22
33 14 13 13-0153	EA 20" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,293.70 263.84 474.91 197.88	432.49
33 14 13 13-0154	EA 20" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,144.58 344.53 620.15 258.40	461.53
33 14 13 13-0155	EA 20" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,646.40 285.98 514.76 214.48	519.20
33 14 13 13-0156	EA 24" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,259.47 250.81 451.46 188.11	495.91
33 14 13 13-0157	EA 24" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,302.86 254.02 457.24 190.52	504.04
33 14 13 13-0158	EA 24" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,642.16 286.87 516.36 215.15	510.49
33 14 13 13-0159	EA 24" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,733.72 294.90 530.82 221.18	517.91
33 14 13 13-0160	EA 24" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,205.73 340.24 612.44 255.18	530.18
33 14 13 13-0161	EA 24" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,544.29 371.48 668.67 278.61	547.43
33 14 13 13-0162	EA 24" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,166.66 429.32 772.78 321.99	576.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,727.07 476.63 857.93 357.47	634.13
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,292.90 424.50 764.10 318.38	691.63
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,675.86 478.95 862.11 359.21	585.02
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,981.26 508.40 915.12 381.30	592.17
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,287.04 537.86 968.14 403.39	599.59
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,723.34 579.63 1,043.33 434.72	611.86
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,195.77 624.26 1,123.66 468.19	814.07
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,389.72 639.25 1,150.65 479.44	658.15
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,685.93 660.14 1,188.25 495.10	715.82
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,074.70 690.31 1,242.55 517.73	773.29
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,132.34 889.88 1,601.79 667.41	814.07
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,935.95 506.08 910.95 379.56	577.59

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0175	EA	36" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,942.02 595.87 1,072.57 446.90	648.97
33 14 13	13-0176	EA	36" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,727.61 673.35 1,212.02 505.01	656.13
33 14 13	13-0177	EA	36" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,152.99 714.76 1,286.57 536.07	663.55
33 14 13	13-0178	EA	36" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,458.99 743.50 1,338.30 557.63	675.82
33 14 13	13-0179	EA	36" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,768.98 771.89 1,389.39 578.91	693.08
33 14 13	13-0180	EA	36" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,362.80 826.87 1,488.36 620.15	722.12
33 14 13	13-0181	EA	36" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,001.75 882.03 1,587.65 661.52	779.76
33 14 13	13-0182	EA	36" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,067.07 979.85 1,763.73 734.89	837.24
33 14 13	13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,237.51 1,090.71 1,963.27 818.03	910.12
33 14 13	13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,294.21 1,291.53 2,324.76 968.65	910.12
33 14 13	13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,083.11 1,502.36 2,704.24 1,126.77	699.30
33 14 13	13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,405.17 1,532.70 2,758.87 1,149.53	711.57



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	18,236.08 1,713.18 3,083.72 1,284.89	728.83
33 14 13	13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,048.34 1,590.01 2,862.01 1,192.50	757.86
33 14 13	13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,135.70 1,590.01 2,862.01 1,192.50	815.53
33 14 13	13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,513.76 1,619.10 2,914.39 1,214.33	872.99
33 14 13	13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	21,245.85 1,986.13 3,575.03 1,489.59	913.84
33 14 13	13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	22,127.95 2,069.49 3,725.08 1,552.12	945.82
33 14 13	13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	23,409.97 2,194.98 3,950.97 1,646.24	963.70
33 14 13	13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	18,952.43 1,780.66 3,205.18 1,335.49	756.26
33 14 13	13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	19,292.34 1,812.79 3,263.02 1,359.59	768.53
33 14 13	13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	19,773.70 1,858.31 3,344.96 1,393.73	785.80
33 14 13	13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,271.12 1,903.65 3,426.57 1,427.74	814.84
33 14 13	13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,813.68 1,949.17 3,508.51 1,461.88	872.48

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
33 14 13	13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,961.45 1,955.24 3,519.44 1,466.43	929.95	
33 14 13	13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	25,520.06 2,404.91 4,328.85 1,803.69	970.80	
33 14 13	13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	29,103.04 2,758.37 4,965.06 2,068.78	1,002.78	
33 14 13	13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	30,529.66 2,898.32 5,216.98 2,173.74	1,020.65	
33 14 13	13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	31,038.73 2,944.91 5,300.84 2,208.68	1,049.19	
33 14 13	13-0204	Mechanical Joint Ductile Iron Wye (Laterals) <small>(33.14.13.13-0002)</small>				
33 14 13	13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	259.75 15.17 27.31 11.38	71.29	
33 14 13	13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	397.53 28.38 51.09 21.29	75.04	
33 14 13	13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	382.52 23.92 43.06 17.94	94.59	
33 14 13	13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	441.97 29.28 52.70 21.96	98.49	
33 14 13	13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	595.41 42.84 77.12 32.13	110.21	
33 14 13	13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	763.80 59.09 106.36 44.32	114.14	
33 14 13	13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	685.18 49.45 89.01 37.09	125.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	827.34	133.68
For Cement Mortar Lining (CML), Add	62.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	112.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,180.03	122.57
For Cement Mortar Lining (CML), Add	99.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	178.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,248.65	133.70
For Cement Mortar Lining (CML), Add	104.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	188.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,434.83	141.12
For Cement Mortar Lining (CML), Add	122.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	219.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,615.28	148.28
For Cement Mortar Lining (CML), Add	139.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	250.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,505.97	137.40
For Cement Mortar Lining (CML), Add	129.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,703.10	148.51
For Cement Mortar Lining (CML), Add	147.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	266.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,051.74	155.94
For Cement Mortar Lining (CML), Add	181.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	326.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	136.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,110.79	163.11
For Cement Mortar Lining (CML), Add	186.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	335.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,913.17	170.50
For Cement Mortar Lining (CML), Add	165.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	297.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	124.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,254.40	173.06
For Cement Mortar Lining (CML), Add	199.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	358.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	149.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,579.83	180.49
For Cement Mortar Lining (CML), Add	230.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	415.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.98	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,367.21	187.64
			For Cement Mortar Lining (CML), Add	308.29	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	554.92	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	231.22	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,606.94	195.06
			For Cement Mortar Lining (CML), Add	331.14	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	596.05	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	248.36	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,525.56	207.32
			For Cement Mortar Lining (CML), Add	321.14	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	578.06	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	240.86	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,317.42	207.58
			For Cement Mortar Lining (CML), Add	200.29	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	360.52	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.22	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,550.02	215.01
			For Cement Mortar Lining (CML), Add	222.43	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	400.37	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	166.82	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,005.37	222.16
			For Cement Mortar Lining (CML), Add	266.88	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	480.38	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	200.16	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,361.13	229.58
			For Cement Mortar Lining (CML), Add	301.33	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	542.39	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	226.00	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,204.45	241.86
			For Cement Mortar Lining (CML), Add	383.80	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	690.84	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.85	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,055.66	259.11
			For Cement Mortar Lining (CML), Add	366.31	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	659.35	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	274.73	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,646.08	265.67
			For Cement Mortar Lining (CML), Add	324.36	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	583.84	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.27	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,925.10	273.08
			For Cement Mortar Lining (CML), Add	351.13	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	632.04	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.35	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,194.78	280.25
			For Cement Mortar Lining (CML), Add	377.02	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	678.63	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.76	
			Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,488.07	287.66
For Cement Mortar Lining (CML), Add	405.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	729.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,538.80	299.93
For Cement Mortar Lining (CML), Add	408.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	735.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	306.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,586.37	317.19
For Cement Mortar Lining (CML), Add	410.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	739.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	307.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	4,198.37	346.23
For Cement Mortar Lining (CML), Add	367.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	661.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	275.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,329.54	380.97
For Cement Mortar Lining (CML), Add	375.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	675.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	281.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,424.68	388.38
For Cement Mortar Lining (CML), Add	383.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	690.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,856.83	395.55
For Cement Mortar Lining (CML), Add	425.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	766.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	319.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,285.77	402.96
For Cement Mortar Lining (CML), Add	467.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	841.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	350.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,340.07	415.22
For Cement Mortar Lining (CML), Add	471.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	847.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	353.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,403.71	432.49
For Cement Mortar Lining (CML), Add	474.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	854.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	356.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	6,258.16	461.53
For Cement Mortar Lining (CML), Add	555.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,000.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	416.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	5,934.93	519.18
For Cement Mortar Lining (CML), Add	514.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	926.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	386.12	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	5,265.95	495.91
For Cement Mortar Lining (CML), Add	451.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	812.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	338.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	5,334.32	503.33
For Cement Mortar Lining (CML), Add	457.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	822.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	342.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	5,936.04	510.49
For Cement Mortar Lining (CML), Add	516.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	929.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	387.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	6,211.46	517.91
For Cement Mortar Lining (CML), Add	542.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	976.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	407.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,165.46	530.18
For Cement Mortar Lining (CML), Add	636.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,145.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	477.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	7,957.44	547.43
For Cement Mortar Lining (CML), Add	712.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,283.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	534.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	8,901.13	576.48
For Cement Mortar Lining (CML), Add	802.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,444.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	602.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	9,779.29	634.13
For Cement Mortar Lining (CML), Add	881.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,587.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	661.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	8,688.19	691.60
For Cement Mortar Lining (CML), Add	764.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,375.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	573.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	10,834.31	577.59
For Cement Mortar Lining (CML), Add	995.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,792.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	746.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	12,141.56	585.02
For Cement Mortar Lining (CML), Add	1,125.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,025.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	844.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	12,845.05	592.17
For Cement Mortar Lining (CML), Add	1,194.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,150.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	896.09	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0260	EA		30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,548.90 1,264.04 2,275.28 948.03	599.59
33 14 13	13-0261	EA		30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,547.53 1,362.05 2,451.68 1,021.54	611.86
33 14 13	13-0262	EA		30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,623.33 1,467.01 2,640.62 1,100.26	629.12
33 14 13	13-0263	EA		30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,018.99 1,502.18 2,703.92 1,126.63	658.15
33 14 13	13-0264	EA		30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,597.25 1,551.27 2,792.28 1,163.45	715.82
33 14 13	13-0265	EA		30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,393.03 1,622.14 2,919.85 1,216.60	773.29
33 14 13	13-0266	EA		30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,849.08 1,761.56 3,170.80 1,321.17	814.13
33 14 13	13-0267	EA		36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,661.33 1,965.60 3,538.07 1,474.20	663.55
33 14 13	13-0268	EA		36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,470.73 2,044.68 3,680.42 1,533.51	675.82
33 14 13	13-0269	EA		36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,276.98 2,122.69 3,820.83 1,592.01	693.08
33 14 13	13-0270	EA		36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,832.98 2,273.89 4,092.99 1,705.41	722.12
33 14 13	13-0271	EA		36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,437.68 2,425.62 4,366.12 1,819.22	779.76

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	28,214.94	837.24
			For Cement Mortar Lining (CML), Add	2,694.64	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	4,850.35	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,020.98	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	31,602.49	878.08
			For Cement Mortar Lining (CML), Add	3,027.21	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	5,448.97	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,270.40	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	37,704.29	910.07
			For Cement Mortar Lining (CML), Add	3,632.54	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6,538.57	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,724.41	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	33,178.58	815.53
			For Cement Mortar Lining (CML), Add	3,194.29	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	5,749.73	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,395.72	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	34,010.05	872.99
			For Cement Mortar Lining (CML), Add	3,268.73	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	5,883.72	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,451.55	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	36,328.32	913.84
			For Cement Mortar Lining (CML), Add	3,494.37	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6,289.87	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,620.78	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	41,535.77	945.82
			For Cement Mortar Lining (CML), Add	4,010.27	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	7,218.49	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,007.70	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	48,978.24	963.69
			For Cement Mortar Lining (CML), Add	4,751.81	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	8,553.26	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,563.86	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	32,736.49	872.48
			For Cement Mortar Lining (CML), Add	3,141.45	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	5,654.62	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,356.09	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	37,072.16	929.95
			For Cement Mortar Lining (CML), Add	3,566.31	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6,419.36	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,674.73	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	39,510.04	970.80
			For Cement Mortar Lining (CML), Add	3,803.91	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6,847.04	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,852.93	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	45,029.88	1,002.78
			For Cement Mortar Lining (CML), Add	4,351.05	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	7,831.89	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,263.29	
			Note: ANSI/AWWA C151/A21.51		



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	58,855.94 5,730.95 10,315.71 4,298.21	1,020.65
33 14 13	13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	64,611.48 6,302.19 11,343.94 4,726.64	1,049.14
33 14 13	13-0286		Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13	13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	359.14 23.03 41.45 17.27	85.05
33 14 13	13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	434.77 29.45 53.02 22.09	92.55
33 14 13	13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	515.22 37.31 67.16 27.98	93.80
33 14 13	13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	614.90 43.91 79.05 32.94	115.95
33 14 13	13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	596.51 40.70 73.26 30.53	125.07
33 14 13	13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.87 45.70 82.26 34.27	156.34
33 14 13	13-0293	EA	8" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	612.50 40.52 72.94 30.39	136.81
33 14 13	13-0294	EA	8" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	727.71 47.31 85.15 35.48	168.07
33 14 13	13-0295	EA	8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	770.49 49.81 89.65 37.35	179.78
33 14 13	13-0296	EA	10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	745.60 52.84 95.11 39.63	143.36

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross	854.80	173.01
For Cement Mortar Lining (CML), Add	59.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	106.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross	1,014.47	184.14
For Cement Mortar Lining (CML), Add	73.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross	1,097.56	197.71
For Cement Mortar Lining (CML), Add	79.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	143.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross.....	903.53	155.69
For Cement Mortar Lining (CML), Add	66.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	120.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross	1,050.23	185.35
For Cement Mortar Lining (CML), Add	76.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	138.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross	1,511.57	196.48
For Cement Mortar Lining (CML), Add	121.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	218.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross	1,532.19	210.08
For Cement Mortar Lining (CML), Add	121.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	218.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross	1,738.31	222.42
For Cement Mortar Lining (CML), Add	140.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	252.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross	1,779.84	203.87
For Cement Mortar Lining (CML), Add	147.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	264.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross	2,093.03	215.01
For Cement Mortar Lining (CML), Add	176.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	318.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	132.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross	2,149.35	228.60
For Cement Mortar Lining (CML), Add	180.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	324.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross	2,268.01	240.95
For Cement Mortar Lining (CML), Add	190.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	342.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.72	
Note: ANSI/AWWA C151/A21.51		



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,508.51 211.54 380.77 158.65	259.49
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,035.14 168.69 303.65 126.52	229.81
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,314.41 194.94 350.88 146.20	240.95
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,768.06 238.24 428.83 178.68	254.53
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,083.83 267.95 482.30 200.96	266.87
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,722.41 329.00 592.20 246.75	285.40
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,356.14 388.44 699.20 291.33	311.39
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,358.95 294.72 530.50 221.04	271.74
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,550.77 312.22 561.99 234.16	282.88
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,717.75 326.86 588.34 245.14	296.47
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,029.20 356.13 641.04 267.10	308.82
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,698.12 420.22 756.39 315.16	327.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross	5,001.63	353.26
For Cement Mortar Lining (CML), Add	446.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	803.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	334.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross	5,240.10	395.18
For Cement Mortar Lining (CML), Add	464.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	835.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	348.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross	4,222.51	340.95
For Cement Mortar Lining (CML), Add	370.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	667.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	277.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross	4,416.11	352.09
For Cement Mortar Lining (CML), Add	388.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	698.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	291.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross	4,552.73	365.68
For Cement Mortar Lining (CML), Add	399.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	719.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	299.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross	4,862.41	378.03
For Cement Mortar Lining (CML), Add	428.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	772.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	321.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross	4,949.38	396.56
For Cement Mortar Lining (CML), Add	434.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	782.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	326.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross	5,981.21	422.48
For Cement Mortar Lining (CML), Add	534.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	961.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	400.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross	6,219.68	464.42
For Cement Mortar Lining (CML), Add	551.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	992.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	413.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross	6,733.35	533.58
For Cement Mortar Lining (CML), Add	592.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,066.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	444.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross	5,753.47	426.51
For Cement Mortar Lining (CML), Add	510.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	919.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	383.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross	5,888.48	437.64
For Cement Mortar Lining (CML), Add	522.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	940.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	391.88	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,112.25 542.86 977.14 407.14	451.24
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,305.89 560.35 1,008.63 420.26	463.58
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,421.43 569.10 1,024.37 426.82	482.10
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,666.01 589.63 1,061.33 442.22	508.04
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,802.07 796.88 1,434.38 597.66	549.97
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,285.39 834.72 1,502.50 626.04	619.18
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,232.61 916.48 1,649.67 687.36	704.77
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,982.68 1,012.34 1,822.22 759.26	567.11
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,201.43 1,032.16 1,857.88 774.12	580.71
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,416.50 1,051.79 1,893.23 788.84	593.05
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,671.27 1,074.46 1,934.04 805.85	611.59
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,964.05 1,099.81 1,979.66 824.86	637.51

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0345	EA	30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,309.63 1,128.02 2,030.43 846.01	679.44
33 14 13	13-0346	EA	30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,751.89 1,161.76 2,091.16 871.32	748.67
33 14 13	13-0347	EA	30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,382.14 1,511.82 2,721.27 1,133.86	834.21
33 14 13	13-0348	EA	30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,838.27 1,737.81 3,128.07 1,303.36	963.70
33 14 13	13-0349	EA	36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,314.28 1,438.27 2,588.89 1,078.70	614.84
33 14 13	13-0350	EA	36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,531.25 1,457.91 2,624.23 1,093.43	628.43
33 14 13	13-0351	EA	36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,717.76 1,474.69 2,654.44 1,106.02	640.78
33 14 13	13-0352	EA	36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,942.18 1,494.32 2,689.78 1,120.74	659.31
33 14 13	13-0353	EA	36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,206.39 1,516.82 2,730.27 1,137.61	685.24
33 14 13	13-0354	EA	36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,521.63 1,541.99 2,775.58 1,156.49	727.16
33 14 13	13-0355	EA	36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,935.33 1,572.87 2,831.16 1,179.65	796.39
33 14 13	13-0356	EA	36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,654.06 1,631.78 2,937.20 1,223.83	881.94



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0357	EA	36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,766.11 2,223.37 4,002.06 1,667.53	1,011.40
33 14 13	13-0358	EA	36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,109.09 2,450.43 4,410.78 1,837.83	1,059.18
33 14 13	13-0359	EA	42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,543.69 1,953.10 3,515.58 1,464.83	668.37
33 14 13	13-0360	EA	42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,223.99 2,218.32 3,992.98 1,663.74	686.90
33 14 13	13-0361	EA	42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,012.69 1,993.27 3,587.88 1,494.95	712.83
33 14 13	13-0362	EA	42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,292.23 2,014.87 3,626.76 1,511.15	754.77
33 14 13	13-0363	EA	42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,691.64 2,044.32 3,679.77 1,533.24	823.98
33 14 13	13-0364	EA	42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,358.61 2,098.05 3,776.49 1,573.54	909.53
33 14 13	13-0365	EA	42" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,617.03 2,704.28 4,867.70 2,028.21	1,039.01
33 14 13	13-0366	EA	42" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	37,356.10 3,570.95 6,427.72 2,678.22	1,086.73
33 14 13	13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	40,025.60 3,833.72 6,900.70 2,875.29	1,114.34
33 14 13	13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,766.26 2,658.76 4,785.76 1,994.07	777.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,954.99 2,674.82 4,814.68 2,006.12	796.46
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,208.50 2,696.25 4,853.24 2,022.18	822.39
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,486.24 2,717.67 4,891.80 2,038.25	864.32
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,860.68 2,744.62 4,940.32 2,058.47	933.54
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,499.07 2,795.50 5,031.90 2,096.62	1,019.09
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,225.08 2,948.48 5,307.27 2,211.36	1,148.56
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	38,245.07 3,643.25 6,557.85 2,732.44	1,196.28
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	49,152.92 4,729.85 8,513.74 3,547.39	1,223.88
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	52,350.04 5,032.97 9,059.34 3,774.73	1,333.38
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	173.65 10.35 18.64 7.77	46.27
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	202.13 11.43 20.57 8.57	58.00
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	218.52 12.50 22.49 9.37	61.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	276.89 17.14 30.85 12.85	69.58
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	305.26 18.21 32.77 13.66	81.30
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	333.98 22.31 40.17 16.74	73.15
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	363.32 23.56 42.42 17.67	84.27
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	397.76 25.88 46.59 19.41	91.69
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	404.11 28.21 50.77 21.15	80.57
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	449.52 31.06 55.91 23.30	91.69
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	469.69 31.95 57.52 23.97	99.10
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	514.46 35.35 63.62 26.51	106.26
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	846.56 68.91 124.03 51.68	103.95
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	822.09 65.34 117.60 49.00	111.37
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	736.56 55.70 100.25 41.77	118.54

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	774.56	125.95
For Cement Mortar Lining (CML), Add	58.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	994.10	121.21
For Cement Mortar Lining (CML), Add	81.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	145.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	975.00	128.63
For Cement Mortar Lining (CML), Add	78.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	140.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	957.29	135.79
For Cement Mortar Lining (CML), Add	75.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	135.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,038.14	143.21
For Cement Mortar Lining (CML), Add	82.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	147.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	61.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,154.91	155.48
For Cement Mortar Lining (CML), Add	91.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	165.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,240.35	157.67
For Cement Mortar Lining (CML), Add	100.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	180.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,390.44	164.84
For Cement Mortar Lining (CML), Add	114.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	205.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,340.99	172.25
For Cement Mortar Lining (CML), Add	108.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	194.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,422.05	184.52
For Cement Mortar Lining (CML), Add	114.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	205.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,498.18	201.78
For Cement Mortar Lining (CML), Add	119.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,750.78	215.33
For Cement Mortar Lining (CML), Add	142.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.84	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,679.50 134.24 241.63 100.68	222.48
33 14 13	13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,549.72 120.14 216.25 90.10	229.90
33 14 13	13-0408	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,559.39 119.25 214.64 89.43	242.17
33 14 13	13-0409	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,610.52 121.75 219.14 91.31	259.43
33 14 13	13-0410	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,931.23 149.42 268.95 112.06	288.47
33 14 13	13-0411	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,275.88 184.05 331.28 138.03	287.37
33 14 13	13-0412	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,340.87 188.69 339.64 141.52	299.64
33 14 13	13-0413	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,392.01 191.19 344.13 143.39	316.90
33 14 13	13-0414	EA	24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,352.12 182.80 329.03 137.10	345.94
33 14 13	13-0415	EA	24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,875.04 226.35 407.44 169.76	403.60
33 14 13	13-0416	EA	30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,692.44 415.04 747.07 311.28	357.74
33 14 13	13-0417	EA	30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,900.68 431.46 776.64 323.60	386.79

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0418	EA	30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,748.82	444.43
			<i>For Cement Mortar Lining (CML), Add</i>	407.54	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	733.58	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	305.66	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0419	EA	30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,641.32	501.91
			<i>For Cement Mortar Lining (CML), Add</i>	388.09	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	698.55	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	291.06	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0420	EA	36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,035.81	476.41
			<i>For Cement Mortar Lining (CML), Add</i>	631.40	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,136.51	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	473.55	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0421	EA	36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,821.54	533.88
			<i>For Cement Mortar Lining (CML), Add</i>	501.26	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	902.27	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	375.95	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0422	EA	36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,322.56	574.72
			<i>For Cement Mortar Lining (CML), Add</i>	545.18	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	981.32	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	408.88	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0423	EA	42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,143.30	407.60
			<i>For Cement Mortar Lining (CML), Add</i>	852.57	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,534.63	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	639.43	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0424	EA	42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,108.76	436.64
			<i>For Cement Mortar Lining (CML), Add</i>	844.72	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,520.49	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	633.54	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0425	EA	42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,167.55	494.29
			<i>For Cement Mortar Lining (CML), Add</i>	841.86	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,515.35	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	631.40	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,231.09	551.77
			<i>For Cement Mortar Lining (CML), Add</i>	939.51	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,691.12	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	704.63	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,440.02	592.60
			<i>For Cement Mortar Lining (CML), Add</i>	754.21	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,357.58	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	565.66	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,834.78	624.58
			<i>For Cement Mortar Lining (CML), Add</i>	788.85	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	1,419.92	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	591.63	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13	13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,317.56	436.08
			<i>For Cement Mortar Lining (CML), Add</i>	1,165.68	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	2,098.23	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	874.26	
			<i>Note: ANSI/AWWA C151/A21.51</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,943.85 1,123.91 2,023.04 842.93	465.12
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,388.55 1,059.65 1,907.36 794.74	522.77
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,745.19 1,086.60 1,955.89 814.95	580.25
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,033.11 1,309.21 2,356.57 981.91	621.09
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,294.65 1,130.52 2,034.93 847.89	653.06
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,496.34 1,247.98 2,246.36 935.98	670.94
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0002)</small>		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	194.45 4.64 8.35 3.48	97.71
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	221.91 4.82 8.68 3.62	114.64
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	302.82 8.57 15.42 6.43	143.31
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	390.96 14.28 25.71 10.71	163.80
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	554.74 18.03 32.45 13.52	247.13
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	678.03 26.96 48.52 20.22	269.60

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	858.12 40.88 73.58 30.66	296.56
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,047.29 54.80 98.65 41.10	329.48
33 14 13 13-0445 EA 18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,231.08 66.94 120.50 50.21	370.70
33 14 13 13-0446 EA 20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,507.68 86.58 155.84 64.93	423.61
33 14 13 13-0447 EA 24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,937.78 118.89 214.00 89.17	494.26
33 14 13 13-0448 EA 30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,617.40 271.87 489.37 203.91	593.11
33 14 13 13-0449 EA 36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,068.10 494.48 890.06 370.86	741.39
33 14 13 13-0450 EA 42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,847.28 749.93 1,349.87 562.45	889.67
33 14 13 13-0451 EA 48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,534.05 903.63 1,626.53 677.72	988.53
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0453 EA 3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	201.59 5.36 9.64 4.02	97.71
33 14 13 13-0454 EA 4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	232.62 5.89 10.60 4.42	114.64
33 14 13 13-0455 EA 6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	331.38 11.43 20.57 8.57	143.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	419.52 17.14 30.85 12.85	163.80
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	670.77 29.63 53.34 22.22	247.13
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	710.17 30.17 54.30 22.63	269.60
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,063.41 61.41 110.53 46.06	296.56
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	577.81 7.86 14.14 5.89	329.48
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,536.34 97.47 175.44 73.10	370.70
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,923.62 128.17 230.71 96.13	423.61
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,526.87 177.80 320.04 133.35	494.26
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,427.84 352.92 635.25 264.69	593.11
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,575.08 545.18 981.32 408.88	741.39
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,911.54 756.36 1,361.44 567.27	889.67
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,580.13 1,008.24 1,814.82 756.18	988.53

33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves	323.21	148.52
For Cement Mortar Lining (CML), Add	9.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves	376.59	171.97
For Cement Mortar Lining (CML), Add	11.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves	520.28	214.96
For Cement Mortar Lining (CML), Add	19.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves	691.77	245.64
For Cement Mortar Lining (CML), Add	31.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves	941.89	370.70
For Cement Mortar Lining (CML), Add	38.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	68.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves	1,126.83	404.40
For Cement Mortar Lining (CML), Add	51.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves	1,450.53	444.84
For Cement Mortar Lining (CML), Add	77.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	139.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves	1,732.49	494.26
For Cement Mortar Lining (CML), Add	98.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	177.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves	2,101.01	556.05
For Cement Mortar Lining (CML), Add	125.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	226.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves	2,481.99	635.46
For Cement Mortar Lining (CML), Add	151.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	273.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	113.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves	3,124.44	741.39
For Cement Mortar Lining (CML), Add	200.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	360.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves	5,539.45	889.67
For Cement Mortar Lining (CML), Add	419.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	754.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	314.36	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,570.52 588.55 1,059.40 441.42	1,112.09
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,795.88 787.24 1,417.03 590.43	1,269.47
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,305.47 1,105.88 1,990.59 829.41	1,482.78
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	35.70	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	40.26	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	48.65	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	57.04	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	78.85	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	83.88	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	137.56	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	145.95	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	194.60	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	251.64	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	350.62	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	837.12	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	1,805.10	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,635.51	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,234.41	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0501 EA 54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	4,344.98	
Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0502 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0503 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	60.69	
33 14 13 13-0504 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	57.04	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0505 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	72.14	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0506 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	78.85	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0507 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	109.04	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0508 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	114.08	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0509 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	172.79	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0510 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	189.57	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0511 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	251.64	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0512 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	325.45	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0513 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	454.63	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0514 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ^{(33 14}

^{13 13-0484)}

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0515	EA		3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	39.27	
33 14 13 13-0516	EA		4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	43.62	
			Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0517	EA		6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	52.01	
			Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0518	EA		8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	62.07	
			Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0519	EA		10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	85.56	
			Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0520	EA		12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	90.59	
			Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0521	EA		14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	149.31	
			Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0522	EA		16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	157.69	
			Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0523	EA		18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	213.06	
			Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0524	EA		20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	273.45	
			Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0525	EA		24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	382.49	
			Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0526	EA		30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	915.97	
			Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0527	EA		36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,029.90	
			Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0528	EA		42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,939.16	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0529	EA		48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,616.91	
			Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0530	EA		54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	4,438.93	
			Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		

33 14 13 13-0531 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters ^(33 14 13 13-0002)

33 14 13 13-0532	EA		3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	341.06	148.52
			<i>For Cement Mortar Lining (CML), Add</i>	11.60	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	20.89	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	8.70	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0533	EA		4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	385.52	171.97
			<i>For Cement Mortar Lining (CML), Add</i>	12.50	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	22.49	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	9.37	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0534	EA		6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	498.86	214.96
			<i>For Cement Mortar Lining (CML), Add</i>	17.32	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	31.17	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	12.99	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0535	EA		8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	634.64	245.64
			<i>For Cement Mortar Lining (CML), Add</i>	26.24	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	47.23	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	19.68	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0536	EA		10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,018.65	370.70
			<i>For Cement Mortar Lining (CML), Add</i>	45.70	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	82.26	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	34.27	
			<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0537	EA		12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,198.24	404.40
			<i>For Cement Mortar Lining (CML), Add</i>	58.55	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	105.39	
			<i>Note: ANSI/AWWA C104/A21.4</i>		
			<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	43.91	
			<i>Note: ANSI/AWWA C151/A21.51</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,604.05	444.84
For Cement Mortar Lining (CML), Add	93.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	167.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	69.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,811.04	494.26
For Cement Mortar Lining (CML), Add	106.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	191.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,466.96	556.05
For Cement Mortar Lining (CML), Add	162.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	292.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	121.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,897.92	635.46
For Cement Mortar Lining (CML), Add	193.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	348.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	145.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,506.46	741.39
For Cement Mortar Lining (CML), Add	238.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	428.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	178.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,734.03	889.67
For Cement Mortar Lining (CML), Add	438.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	789.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	328.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	7,970.39	1,112.09
For Cement Mortar Lining (CML), Add	628.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,131.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	471.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,688.85	1,270.93
For Cement Mortar Lining (CML), Add	876.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,577.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	657.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	13,221.57	1,482.78
For Cement Mortar Lining (CML), Add	1,097.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,975.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	823.12	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002)

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	204.88	74.50
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	233.64	88.23
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	289.84	109.20
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	361.87	127.44
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	522.11	185.35
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	644.38	211.86
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	751.15	228.04
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	927.10	247.13
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,190.49	296.56
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,406.01	329.35
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,827.92	380.02
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,560.60	455.73
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,396.66	570.31
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,496.55	658.04
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,319.41	846.31

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0563			Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002)		
33 14 13 13-0564	EA		3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,427.90	60.97
33 14 13 13-0565	EA		4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,609.97	76.21
33 14 13 13-0566	EA		6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,689.34	112.63
33 14 13 13-0567	EA		8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,091.54	133.59
33 14 13 13-0568	EA		10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	11,460.69	147.94
33 14 13 13-0569	EA		12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,287.36	173.55
33 14 13 13-0570	EA		14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	18,833.18	194.61
33 14 13 13-0571	EA		16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,280.95	222.42
33 14 13 13-0572	EA		18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	25,116.65	311.39
33 14 13 13-0573	EA		20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	33,791.29	389.23
33 14 13 13-0574	EA		24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	46,822.86	518.98
33 14 13 13-0575			Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002)		
			Note: Includes machined bolts and gasket.		
33 14 13 13-0576	EA		3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	203.40	74.50
33 14 13 13-0577	EA		4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	261.19	88.23
33 14 13 13-0578	EA		6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	337.62	109.20
33 14 13 13-0579	EA		8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	385.29	127.44
33 14 13 13-0580	EA		10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	677.08	195.42
33 14 13 13-0581	EA		12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	766.26	223.37
33 14 13 13-0582			Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002)		
			Note: Includes nuts, bolts and gasket.		
33 14 13 13-0583	EA		3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	296.99	74.50
33 14 13 13-0584	EA		4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	369.47	88.23
33 14 13 13-0585	EA		6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	511.71	109.20
33 14 13 13-0586	EA		8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	740.30	127.44
33 14 13 13-0587	EA		10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	1,072.34	195.42
33 14 13 13-0588	EA		12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,333.57	223.37
33 14 13 13-0589	EA		14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	2,056.28	240.42
33 14 13 13-0590	EA		16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,882.92	260.56
33 14 13 13-0591	EA		18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	3,260.51	312.67
33 14 13 13-0592	EA		20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,601.65	347.25
33 14 13 13-0593	EA		24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	4,357.40	400.67
33 14 13 13-0594	EA		30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,606.57	480.49
33 14 13 13-0595	EA		36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	8,375.81	601.30
33 14 13 13-0596	EA		42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	21,860.20	693.80
33 14 13 13-0597	EA		48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	27,999.74	892.30
33 14 13 13-0598			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
			Note: See CSI section 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0599			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0600	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	444.66	42.52
33 14 13 13-0601	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	532.20	50.93
33 14 13 13-0602	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	825.96	74.61
33 14 13 13-0603	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,129.31	88.82
33 14 13 13-0604	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,548.93	98.85
33 14 13 13-0605	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,963.92	115.70
33 14 13 13-0606	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,792.13	130.30
33 14 13 13-0607	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,387.90	148.28
33 14 13 13-0608	EA		18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,093.58	207.81
33 14 13 13-0609	EA		20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,102.29	259.49
33 14 13 13-0610	EA		24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,214.24	345.99
33 14 13 13-0611	EA		30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	11,552.64	370.70
33 14 13 13-0612	EA		36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	17,016.85	385.30
33 14 13 13-0613	EA		42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	28,038.10	444.84
33 14 13 13-0614	EA		48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	36,678.26	472.92
33 14 13 13-0615			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0598)		
33 14 13 13-0616	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	425.02	42.52
33 14 13 13-0617	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	498.28	50.93
33 14 13 13-0618	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	767.05	74.61
33 14 13 13-0619	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,036.27	88.82
33 14 13 13-0620	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,356.14	98.85
33 14 13 13-0621	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,790.76	115.70
33 14 13 13-0622	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,420.83	130.30
33 14 13 13-0623	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,898.78	148.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0624 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,427.73	207.81
33 14 13 13-0625 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,161.53	259.49
33 14 13 13-0626 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	5,484.46	345.99
33 14 13 13-0627 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	10,094.20	370.70
33 14 13 13-0628 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	13,958.94	385.30
33 14 13 13-0629 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	20,744.10	444.84
33 14 13 13-0630 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	26,556.63	472.92
33 14 13 13-0631 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0632 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	330.41	42.52
33 14 13 13-0633 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	492.92	50.93
33 14 13 13-0634 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	745.63	74.61
33 14 13 13-0635 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,031.13	88.82
33 14 13 13-0636 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,354.36	98.85
33 14 13 13-0637 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,687.23	115.70
33 14 13 13-0638 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,435.11	130.30
33 14 13 13-0639 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,834.52	148.28
33 14 13 13-0640 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,411.66	207.81
33 14 13 13-0641 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,309.69	259.49
33 14 13 13-0642 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,366.64	345.99
33 14 13 13-0643 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,982.07	370.70
33 14 13 13-0644 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	12,263.08	385.30
33 14 13 13-0645 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	17,550.52	444.84
33 14 13 13-0646 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	22,474.06	472.92
33 14 13 13-0647 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0648 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	330.41	42.52
33 14 13 13-0649 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	591.10	50.93
33 14 13 13-0650 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	752.77	74.61
33 14 13 13-0651 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	999.00	88.82
33 14 13 13-0652 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,350.79	98.85
33 14 13 13-0653 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,639.03	115.70
33 14 13 13-0654 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,622.55	130.30
33 14 13 13-0655 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,921.99	148.28
33 14 13 13-0656 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,918.64	207.81
33 14 13 13-0657 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,156.17	259.49
33 14 13 13-0658 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,368.43	345.99
33 14 13 13-0659 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,099.89	370.70
33 14 13 13-0660 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	11,925.69	385.30
33 14 13 13-0661 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,068.54	444.84
33 14 13 13-0662 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	22,345.53	472.92
33 14 13 13-0663 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0664 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	389.32	42.52
33 14 13 13-0665 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	573.25	50.93
33 14 13 13-0666 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	893.80	74.61
33 14 13 13-0667 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,215.00	88.82
33 14 13 13-0668 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,673.89	98.85
33 14 13 13-0669 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,101.37	115.70
33 14 13 13-0670 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,779.31	130.30
33 14 13 13-0671 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,899.57	148.28
33 14 13 13-0672 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,740.91	207.81
33 14 13 13-0673 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,769.26	259.49
33 14 13 13-0674 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,399.56	345.99
33 14 13 13-0675 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0676 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	389.32	42.52
33 14 13 13-0677 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	505.41	50.93

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0678 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	795.62	74.61
33 14 13 13-0679 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,125.74	88.82
33 14 13 13-0680 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,493.60	98.85
33 14 13 13-0681 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,944.28	115.70
33 14 13 13-0682 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,592.20	130.30
33 14 13 13-0683 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	3,114.78	148.28
33 14 13 13-0684 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	5,830.50	207.81
33 14 13 13-0685 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	6,116.23	259.49
33 14 13 13-0686 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	6,368.09	345.99
33 14 13 13-0687 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0598)</small>		
33 14 13 13-0688 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	548.28	63.79
33 14 13 13-0689 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	598.08	71.92
33 14 13 13-0690 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	631.38	74.61
33 14 13 13-0691 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	900.20	94.59
33 14 13 13-0692 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	975.72	98.30
33 14 13 13-0693 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,029.19	110.15
33 14 13 13-0694 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,197.59	113.70
33 14 13 13-0695 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,295.69	125.54
33 14 13 13-0696 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,425.36	133.83
33 14 13 13-0697 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,608.46	122.44
33 14 13 13-0698 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,605.67	133.68
33 14 13 13-0699 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,740.09	141.54
33 14 13 13-0700 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,877.69	148.28
33 14 13 13-0701 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,936.19	137.05
33 14 13 13-0702 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,953.02	148.28
33 14 13 13-0703 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,112.43	156.14
33 14 13 13-0704 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,435.68	162.89
33 14 13 13-0705 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,441.56	170.75
33 14 13 13-0706 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,766.73	172.99
33 14 13 13-0707 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,993.97	180.85
33 14 13 13-0708 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,634.98	187.59
33 14 13 13-0709 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,837.22	195.46
33 14 13 13-0710 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,554.12	207.81
33 14 13 13-0711 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,309.85	207.81
33 14 13 13-0712 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,488.99	214.55
33 14 13 13-0713 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,187.12	222.42
33 14 13 13-0714 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,927.02	229.16
33 14 13 13-0715 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,125.57	241.51
33 14 13 13-0716 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,635.82	259.49
33 14 13 13-0717 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,345.85	266.23
33 14 13 13-0718 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,583.81	272.97
33 14 13 13-0719 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,885.62	279.71
33 14 13 13-0720 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,164.63	287.57
33 14 13 13-0721 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,306.41	299.93
33 14 13 13-0722 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,669.93	316.78
33 14 13 13-0723 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,329.80	345.99
33 14 13 13-0724 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,993.61	380.81
33 14 13 13-0725 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,078.04	388.67
33 14 13 13-0726 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,581.59	395.41
33 14 13 13-0727 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,857.01	403.28
33 14 13 13-0728 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,914.88	415.63
33 14 13 13-0729 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,839.28	432.48
33 14 13 13-0730 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,468.48	461.69
33 14 13 13-0731 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,363.35	518.98
33 14 13 13-0732 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,060.33	495.39
33 14 13 13-0733 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,117.99	504.37
33 14 13 13-0734 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,228.80	509.99
33 14 13 13-0735 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,393.55	517.86
33 14 13 13-0736 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,274.35	530.21
33 14 13 13-0737 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,587.92	547.06
33 14 13 13-0738 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,342.06	576.27
33 14 13 13-0739 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,643.62	634.68
33 14 13 13-0740 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,043.43	691.97
33 14 13 13-0741 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,618.31	577.39
33 14 13 13-0742 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,108.31	585.25
33 14 13 13-0743 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,685.05	591.99
33 14 13 13-0744 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,263.95	599.85
33 14 13 13-0745 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,085.85	612.21
33 14 13 13-0746 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,972.42	814.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0747 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,912.89	658.26
33 14 13 13-0748 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,894.91	715.55
33 14 13 13-0749 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,433.63	772.84
33 14 13 13-0750 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,041.09	814.41
33 14 13 13-0751 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,956.76	649.28
33 14 13 13-0752 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,263.60	656.02
33 14 13 13-0753 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,969.24	663.89
33 14 13 13-0754 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,468.04	676.24
33 14 13 13-0755 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,969.03	693.10
33 14 13 13-0756 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,934.16	722.30
33 14 13 13-0757 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,944.41	779.59
33 14 13 13-0758 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,668.45	836.87
33 14 13 13-0759 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,958.16	909.89
33 14 13 13-0760 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,002.04	909.89
33 14 13 13-0761 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,211.88	699.83
33 14 13 13-0762 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,739.23	711.06
33 14 13 13-0763 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,410.93	729.04
33 14 13 13-0764 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,528.57	758.25
33 14 13 13-0765 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,615.93	815.54
33 14 13 13-0766 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,794.26	872.83
33 14 13 13-0767 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,289.93	914.39
33 14 13 13-0768 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,061.14	945.84
33 14 13 13-0769 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,959.03	963.81
33 14 13 13-0770 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,571.78	756.00
33 14 13 13-0771 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,120.55	768.35
33 14 13 13-0772 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,900.02	786.33
33 14 13 13-0773 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,691.98	814.41
33 14 13 13-0774 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,532.66	872.83
33 14 13 13-0775 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,719.70	930.12
33 14 13 13-0776 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,207.57	970.55
33 14 13 13-0777 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,103.04	1,003.13
33 14 13 13-0778 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,513.38	1,021.10
33 14 13 13-0779 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	48,668.57	1,049.19

33 14 13 13-0780

Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0598)

33 14 13 13-0781 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	614.98	71.29
33 14 13 13-0782 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	677.46	71.29
33 14 13 13-0783 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	795.62	74.61
33 14 13 13-0784 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	876.99	94.59
33 14 13 13-0785 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	979.29	98.30
33 14 13 13-0786 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,198.78	110.15
33 14 13 13-0787 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,577.82	113.70
33 14 13 13-0788 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,452.78	125.54
33 14 13 13-0789 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,634.22	133.83
33 14 13 13-0790 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,320.72	122.44
33 14 13 13-0791 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,416.12	133.68
33 14 13 13-0792 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,704.05	141.54
33 14 13 13-0793 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,952.33	148.28
33 14 13 13-0794 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,834.10	137.05
33 14 13 13-0795 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,215.10	148.28
33 14 13 13-0796 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,808.30	156.14
33 14 13 13-0797 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,810.22	162.89
33 14 13 13-0798 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,512.63	170.75
33 14 13 13-0799 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,180.55	172.99
33 14 13 13-0800 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,809.44	180.85
33 14 13 13-0801 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,346.58	187.59
33 14 13 13-0802 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,807.66	195.46
33 14 13 13-0803 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,629.88	207.81
33 14 13 13-0804 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,347.11	207.81
33 14 13 13-0805 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,804.63	214.55
33 14 13 13-0806 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,709.83	222.42
33 14 13 13-0807 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,890.65	229.16
33 14 13 13-0808 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,305.20	241.51
33 14 13 13-0809 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,902.92	259.49
33 14 13 13-0810 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,166.67	266.23
33 14 13 13-0811 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,654.55	272.97
33 14 13 13-0812 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,125.95	279.71
33 14 13 13-0813 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,637.02	287.57
33 14 13 13-0814 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,712.75	299.93
33 14 13 13-0815 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,797.80	316.78
33 14 13 13-0816 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,054.56	345.99
33 14 13 13-0817 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,246.43	380.81
33 14 13 13-0818 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,405.83	388.67
33 14 13 13-0819 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,166.44	395.41
33 14 13 13-0820 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,920.27	403.28
33 14 13 13-0821 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,001.35	415.63
33 14 13 13-0822 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,095.34	432.48
33 14 13 13-0823 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,578.15	461.69
33 14 13 13-0824 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,937.17	518.98



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0825	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,775.49	495.39
33 14 13 13-0826	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,888.50	503.25
33 14 13 13-0827	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,948.99	509.99
33 14 13 13-0828	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,429.70	517.86
33 14 13 13-0829	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,110.24	530.21
33 14 13 13-0830	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,498.46	547.06
33 14 13 13-0831	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,140.13	576.27
33 14 13 13-0832	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,634.15	634.68
33 14 13 13-0833	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,627.29	691.97
33 14 13 13-0834	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,576.38	577.39
33 14 13 13-0835	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,890.43	585.25
33 14 13 13-0836	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,131.24	591.99
33 14 13 13-0837	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,374.21	599.85
33 14 13 13-0838	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,135.07	612.21
33 14 13 13-0839	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,026.67	629.06
33 14 13 13-0840	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,695.46	658.26
33 14 13 13-0841	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,655.74	715.55
33 14 13 13-0842	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,001.33	772.84
33 14 13 13-0843	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,540.95	814.41
33 14 13 13-0844	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,940.17	663.89
33 14 13 13-0845	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	37,363.66	676.24
33 14 13 13-0846	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	38,776.85	693.10
33 14 13 13-0847	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,507.45	722.30
33 14 13 13-0848	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,292.12	779.59
33 14 13 13-0849	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	49,159.75	836.87
33 14 13 13-0850	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	55,132.16	878.44
33 14 13 13-0851	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	65,939.53	909.89
33 14 13 13-0852	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,007.81	815.54
33 14 13 13-0853	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	59,417.67	872.83
33 14 13 13-0854	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,488.92	914.39
33 14 13 13-0855	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	72,707.54	945.84
33 14 13 13-0856	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	85,914.16	963.81
33 14 13 13-0857	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	57,155.15	872.83
33 14 13 13-0858	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	64,793.29	930.12
33 14 13 13-0859	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	69,076.98	970.55
33 14 13 13-0860	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	78,850.77	1,003.13
33 14 13 13-0861	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	103,401.83	1,021.10
33 14 13 13-0862	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	113,596.95	1,049.19

33 14 13 13-0863 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0598)

33 14 13 13-0864	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,095.24	110.15
33 14 13 13-0865	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,363.52	125.54
33 14 13 13-0866	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,962.70	133.68
33 14 13 13-0867	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,260.06	148.28
33 14 13 13-0868	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,993.44	172.99
33 14 13 13-0869	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,647.34	207.81
33 14 13 13-0870	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,301.22	266.23
33 14 13 13-0871	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	5,777.27	380.81
33 14 13 13-0872	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,736.64	495.39
33 14 13 13-0873	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	12,294.54	577.39

33 14 13 13-0874 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0598)

33 14 13 13-0875	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	609.06	85.05
33 14 13 13-0876	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	763.24	92.55
33 14 13 13-0877	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	957.93	93.56
33 14 13 13-0878	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,012.98	115.99
33 14 13 13-0879	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,187.38	125.54
33 14 13 13-0880	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,307.95	156.34
33 14 13 13-0881	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,260.50	137.39
33 14 13 13-0882	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,484.60	168.18
33 14 13 13-0883	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,466.69	180.02
33 14 13 13-0884	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,484.64	143.79
33 14 13 13-0885	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,661.67	172.99
33 14 13 13-0886	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,978.43	184.22
33 14 13 13-0887	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,143.64	197.71
33 14 13 13-0888	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,913.91	156.14
33 14 13 13-0889	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,214.12	185.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0890 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,404.13	196.58
33 14 13 13-0891 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,808.55	210.06
33 14 13 13-0892 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,211.03	222.42
33 14 13 13-0893 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,325.75	203.32
33 14 13 13-0894 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,949.55	214.55
33 14 13 13-0895 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,043.36	229.16
33 14 13 13-0896 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,267.34	240.39
33 14 13 13-0897 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,730.98	259.49
33 14 13 13-0898 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,722.08	230.28
33 14 13 13-0899 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,263.76	240.39
33 14 13 13-0900 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,150.15	255.00
33 14 13 13-0901 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,763.29	267.35
33 14 13 13-0902 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,010.60	285.33
33 14 13 13-0903 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,314.08	311.17
33 14 13 13-0904 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,456.14	271.84
33 14 13 13-0905 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,831.83	283.08
33 14 13 13-0906 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,152.33	296.56
33 14 13 13-0907 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,772.60	308.92
33 14 13 13-0908 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,114.51	326.89
33 14 13 13-0909 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,694.71	352.72
33 14 13 13-0910 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,117.05	395.41
33 14 13 13-0911 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,117.64	341.49
33 14 13 13-0912 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,496.89	351.60
33 14 13 13-0913 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,754.90	366.20
33 14 13 13-0914 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,369.84	378.56
33 14 13 13-0915 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,519.29	396.53
33 14 13 13-0916 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,593.63	422.37
33 14 13 13-0917 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,015.97	463.94
33 14 13 13-0918 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,959.85	533.58
33 14 13 13-0919 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,121.32	426.87
33 14 13 13-0920 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,379.51	438.10
33 14 13 13-0921 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,817.49	451.57
33 14 13 13-0922 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,195.00	463.94
33 14 13 13-0923 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,401.58	481.90
33 14 13 13-0924 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,862.16	507.74
33 14 13 13-0925 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,176.06	550.43
33 14 13 13-0926 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,057.47	618.95
33 14 13 13-0927 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,865.11	704.33
33 14 13 13-0928 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,278.79	567.28
33 14 13 13-0929 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,620.73	580.76
33 14 13 13-0930 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,957.18	593.11
33 14 13 13-0931 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,352.97	611.09
33 14 13 13-0932 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,804.63	638.05
33 14 13 13-0933 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,325.15	679.61
33 14 13 13-0934 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,976.27	748.13
33 14 13 13-0935 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,784.37	834.63
33 14 13 13-0936 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,645.39	963.81
33 14 13 13-0937 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,259.52	614.46
33 14 13 13-0938 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,597.87	627.94
33 14 13 13-0939 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,889.70	640.30
33 14 13 13-0940 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,235.51	659.39
33 14 13 13-0941 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,638.97	685.23
33 14 13 13-0942 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,111.29	726.79
33 14 13 13-0943 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,717.79	796.44
33 14 13 13-0944 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,802.47	881.81
33 14 13 13-0945 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,593.65	1,010.99
33 14 13 13-0946 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,348.66	1,059.29
33 14 13 13-0947 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,689.64	668.38
33 14 13 13-0948 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,369.27	686.35
33 14 13 13-0949 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,760.23	713.31
33 14 13 13-0950 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	34,300.40	754.88
33 14 13 13-0951 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,276.41	824.52
33 14 13 13-0952 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,357.18	909.89
33 14 13 13-0953 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,434.65	1,039.07
33 14 13 13-0954 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	59,564.78	1,086.26
33 14 13 13-0955 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	63,867.67	1,114.34
33 14 13 13-0956 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,301.82	778.46
33 14 13 13-0957 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,590.52	796.44
33 14 13 13-0958 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,976.13	822.27
33 14 13 13-0959 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,387.75	863.83
33 14 13 13-0960 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,930.00	933.49
33 14 13 13-0961 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	46,884.35	1,018.86
33 14 13 13-0962 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,561.83	1,148.04
33 14 13 13-0963 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	60,903.60	1,196.34
33 14 13 13-0964 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	78,568.13	1,224.43
33 14 13 13-0965 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	83,650.34	1,333.38

33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x
Mechanical Joint Ductile Iron Reducers (33 14 13 13-0966)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 14 13 13-0967	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	436.06	46.27
33 14 13 13-0968	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	610.92	58.00
33 14 13 13-0969	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	671.94	61.58
33 14 13 13-0970	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	883.83	69.88
33 14 13 13-0971	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	917.56	81.72
33 14 13 13-0972	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,083.73	73.01
33 14 13 13-0973	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,132.70	84.25
33 14 13 13-0974	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,177.86	92.11
33 14 13 13-0975	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,253.83	80.88
33 14 13 13-0976	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,386.71	92.11
33 14 13 13-0977	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,408.66	98.85
33 14 13 13-0978	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,471.29	106.72
33 14 13 13-0979	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,176.47	104.47
33 14 13 13-0980	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,187.71	111.21
33 14 13 13-0981	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,900.46	119.07
33 14 13 13-0982	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,938.46	125.81
33 14 13 13-0983	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,609.64	121.32
33 14 13 13-0984	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,529.84	129.18
33 14 13 13-0985	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,372.89	135.93
33 14 13 13-0986	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,343.06	142.66
33 14 13 13-0987	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,650.84	155.02
33 14 13 13-0988	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,832.68	157.26
33 14 13 13-0989	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,196.98	165.13
33 14 13 13-0990	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,051.13	171.87
33 14 13 13-0991	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,651.66	184.22
33 14 13 13-0992	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,190.47	202.20
33 14 13 13-0993	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,771.53	215.67
33 14 13 13-0994	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,800.22	222.42
33 14 13 13-0995	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,447.30	230.28
33 14 13 13-0996	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,442.69	242.64
33 14 13 13-0997	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,354.58	259.49
33 14 13 13-0998	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,971.62	288.70
33 14 13 13-0999	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,748.27	287.57
33 14 13 13-1000	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,816.83	299.93
33 14 13 13-1001	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,900.11	316.78
33 14 13 13-1002	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,819.16	345.99
33 14 13 13-1003	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,558.08	403.28
33 14 13 13-1004	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,692.90	357.22
33 14 13 13-1005	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,060.00	386.42
33 14 13 13-1006	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,715.36	444.84
33 14 13 13-1007	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,363.63	502.13
33 14 13 13-1008	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,464.69	476.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1009 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,639.58	533.58
33 14 13 13-1010 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,358.38	575.15
33 14 13 13-1011 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,017.47	407.77
33 14 13 13-1012 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,911.52	436.97
33 14 13 13-1013 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,943.53	494.26
33 14 13 13-1014 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,600.06	551.55
33 14 13 13-1015 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,355.91	593.11
33 14 13 13-1016 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,022.00	624.57
33 14 13 13-1017 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	21,460.95	435.85
33 14 13 13-1018 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	20,758.77	465.06
33 14 13 13-1019 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,700.07	522.35
33 14 13 13-1020 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	20,267.35	580.76
33 14 13 13-1021 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	24,301.12	621.20
33 14 13 13-1022 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	20,993.54	652.65
33 14 13 13-1023 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,098.50	670.63
33 14 13 13-1024 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0598)</small>		
33 14 13 13-1025 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	392.60	97.71
33 14 13 13-1026 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	473.61	114.88
33 14 13 13-1027 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	695.54	143.31
33 14 13 13-1028 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	935.42	163.45
33 14 13 13-1029 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,240.22	247.13
33 14 13 13-1030 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,568.81	269.60
33 14 13 13-1031 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,784.60	296.56
33 14 13 13-1032 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,175.49	329.13
33 14 13 13-1033 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,550.28	370.70
33 14 13 13-1034 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,078.59	423.49
33 14 13 13-1035 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,953.18	494.26
33 14 13 13-1036 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	7,209.06	593.11
33 14 13 13-1037 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	11,844.75	741.39
33 14 13 13-1038 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	17,092.75	889.67
33 14 13 13-1039 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	20,361.13	988.53
33 14 13 13-1040 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0598)</small>		
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	394.39	97.71
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	491.46	114.88
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	741.96	143.31
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	981.83	163.45
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,506.21	247.13
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,629.50	269.60
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,171.97	296.56
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,623.55	329.13
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,123.31	370.70
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,853.33	423.49
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,056.38	494.26
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,733.55	593.11
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	12,792.65	741.39
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	17,212.35	889.67
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	22,897.79	988.53
33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0598)</small>		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	533.86	148.52
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	708.63	171.73
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	977.27	215.56
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,288.00	245.16

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-1061	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		1,896.93	370.70
33 14 13 13-1062	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		2,269.31	404.40
33 14 13 13-1063	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		2,976.80	444.84
33 14 13 13-1064	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		3,380.16	494.26
33 14 13 13-1065	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		4,444.87	556.05
33 14 13 13-1066	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		5,156.10	635.81
33 14 13 13-1067	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		6,244.83	741.39
33 14 13 13-1068	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		9,854.09	889.67
33 14 13 13-1069	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		13,415.00	1,112.09
33 14 13 13-1070	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		18,279.19	1,270.48
33 14 13 13-1071	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters		22,729.12	1,482.78
33 14 13 13-1072		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0598)</small>			
33 14 13 13-1073	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		555.28	148.52
33 14 13 13-1074	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		681.85	171.73
33 14 13 13-1075	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		1,007.62	215.56
33 14 13 13-1076	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		1,370.11	245.16
33 14 13 13-1077	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		1,782.68	370.70
33 14 13 13-1078	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		2,162.20	404.40
33 14 13 13-1079	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		2,748.31	444.84
33 14 13 13-1080	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		3,258.77	494.26
33 14 13 13-1081	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		3,895.06	556.05
33 14 13 13-1082	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		4,536.66	635.81
33 14 13 13-1083	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		5,677.16	741.39
33 14 13 13-1084	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		9,559.54	889.67
33 14 13 13-1085	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		12,431.40	1,112.09
33 14 13 13-1086	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		16,202.67	1,269.36
33 14 13 13-1087	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves		24,112.58	1,482.78
33 14 13 13-1088		Push-On Joint Ductile Iron Piping And Gaskets <small>(33 14 13 13-0001)</small>			
33 14 13 13-1089		Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1088)</small> Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.			
33 14 13 13-1090	LF	4", Class 50, Push-On Joint Ductile Iron Pipe		35.93	9.77
		<i>For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add</i>		14.79	
		<i>For Cement Mortar Lining (CML), Add</i>		2.11	
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For 40 Mil Ceramic Epoxy Lining (P401), Add</i>		11.41	
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>		3.80	
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>		1.58	
		<i>Note: ANSI/AWWA C151/A21.51</i>			
		<i>For >1,000, Deduct</i>		-1.80	
		<i>For Class 51, Add</i>		3.07	
		<i>For Class 52, Add</i>		6.61	
		<i>For Class 53, Add</i>		11.88	
		<i>For Class 54, Add</i>		16.93	
		<i>For Class 55, Add</i>		19.49	
		<i>For Class 56, Add</i>		22.00	
33 14 13 13-1091	LF	6", Class 50, Push-On Joint Ductile Iron Pipe		39.41	10.78
		<i>For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add</i>		16.23	
		<i>For Cement Mortar Lining (CML), Add</i>		2.32	
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For 40 Mil Ceramic Epoxy Lining (P401), Add</i>		12.52	
		<i>For Fusion Bonded Epoxy Lining (206N), Add</i>		4.17	
		<i>Note: ANSI/AWWA C104/A21.4</i>			
		<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>		1.74	
		<i>Note: ANSI/AWWA C151/A21.51</i>			
		<i>For >1,000, Deduct</i>		-1.97	
		<i>For Class 51, Add</i>		3.36	
		<i>For Class 52, Add</i>		7.25	
		<i>For Class 53, Add</i>		13.04	
		<i>For Class 54, Add</i>		18.58	
		<i>For Class 55, Add</i>		21.39	
		<i>For Class 56, Add</i>		24.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1092 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	49.47	11.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	22.19	
For Cement Mortar Lining (CML), Add	3.17	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.12	
For Fusion Bonded Epoxy Lining (206N), Add	5.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.47	
For Class 51, Add	4.54	
For Class 52, Add	9.80	
For Class 53, Add	17.65	
For Class 54, Add	25.18	
For Class 55, Add	28.96	
For Class 56, Add	32.67	
33 14 13 13-1093 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	69.99	16.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.83	
For Cement Mortar Lining (CML), Add	4.47	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	22.36	
For Fusion Bonded Epoxy Lining (206N), Add	8.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.35	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.50	
For Class 51, Add	6.41	
For Class 52, Add	13.83	
For Class 53, Add	24.91	
For Class 54, Add	35.54	
For Class 55, Add	40.87	
For Class 56, Add	46.10	
33 14 13 13-1094 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	81.39	18.53
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.66	
For Cement Mortar Lining (CML), Add	5.33	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	21.32	
For Fusion Bonded Epoxy Lining (206N), Add	9.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.00	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.07	
For Class 51, Add	7.62	
For Class 52, Add	16.43	
For Class 53, Add	29.62	
For Class 54, Add	42.26	
For Class 55, Add	48.59	
For Class 56, Add	54.80	
33 14 13 13-1095 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	99.52	20.89
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	29.90	
For Cement Mortar Lining (CML), Add	6.80	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.11	
For Fusion Bonded Epoxy Lining (206N), Add	12.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.10	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.98	
For Class 51, Add	9.66	
For Class 52, Add	20.84	
For Class 53, Add	37.60	
For Class 54, Add	53.66	
For Class 55, Add	61.68	
For Class 56, Add	69.55	
33 14 13 13-1096 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	118.11	23.81
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	33.64	
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	25.44	
For Fusion Bonded Epoxy Lining (206N), Add	14.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.15	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.91	
For Class 51, Add	11.63	
For Class 52, Add	25.11	
For Class 53, Add	45.32	
For Class 54, Add	64.69	
For Class 55, Add	74.33	
For Class 56, Add	83.81	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-1097	LF	18", Class 50, Push-On Joint Ductile Iron Pipe.....	137.42	27.86
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	39.07	
			For Cement Mortar Lining (CML), Add	9.53	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	29.54	
			For Fusion Bonded Epoxy Lining (206N), Add	17.15	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.15	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-6.87	
			For Class 51, Add	13.51	
			For Class 52, Add	29.17	
			For Class 53, Add	52.65	
			For Class 54, Add	75.14	
			For Class 55, Add	86.35	
			For Class 56, Add	97.35	
33 14 13	13-1098	LF	20", Class 50, Push-On Joint Ductile Iron Pipe.....	158.34	33.36
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	40.96	
			For Cement Mortar Lining (CML), Add	10.78	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	30.18	
			For Fusion Bonded Epoxy Lining (206N), Add	19.40	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.08	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-7.92	
			For Class 51, Add	15.32	
			For Class 52, Add	33.07	
			For Class 53, Add	59.66	
			For Class 54, Add	85.14	
			For Class 55, Add	97.85	
			For Class 56, Add	110.34	
33 14 13	13-1099	LF	24", Class 50, Push-On Joint Ductile Iron Pipe.....	200.38	41.68
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.51	
			For Cement Mortar Lining (CML), Add	13.71	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	28.80	
			For Fusion Bonded Epoxy Lining (206N), Add	24.69	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.29	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-10.02	
			For Class 51, Add	19.48	
			For Class 52, Add	42.05	
			For Class 53, Add	75.86	
			For Class 54, Add	108.27	
			For Class 55, Add	124.43	
			For Class 56, Add	140.31	
33 14 13	13-1100	LF	30", Class 50, Push-On Joint Ductile Iron Pipe.....	238.09	44.48
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	52.91	
			For Cement Mortar Lining (CML), Add	17.07	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	30.72	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.80	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-11.90	
			For Class 51, Add	24.11	
			For Class 52, Add	52.06	
			For Class 53, Add	94.00	
			For Class 54, Add	134.19	
			For Class 55, Add	154.16	
			For Class 56, Add	173.78	
33 14 13	13-1101	LF	36", Class 50, Push-On Joint Ductile Iron Pipe.....	296.38	47.29
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	69.66	
			For Cement Mortar Lining (CML), Add	22.47	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	40.45	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.85	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-14.82	
			For Class 51, Add	31.52	
			For Class 52, Add	68.10	
			For Class 53, Add	123.11	
			For Class 54, Add	175.80	
			For Class 55, Add	201.89	
			For Class 56, Add	227.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1102 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	362.36	50.10
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	88.83	
For Cement Mortar Lining (CML), Add	28.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-18.12	
For Class 51, Add	40.00	
For Class 52, Add	86.45	
For Class 53, Add	156.40	
For Class 54, Add	223.40	
For Class 55, Add	256.46	
For Class 56, Add	288.93	
33 14 13 13-1103 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	437.30	52.80
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	110.74	
For Cement Mortar Lining (CML), Add	35.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	64.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.79	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-21.87	
For Class 51, Add	49.69	
For Class 52, Add	107.41	
For Class 53, Add	194.43	
For Class 54, Add	277.77	
For Class 55, Add	318.81	
For Class 56, Add	359.11	
33 14 13 13-1104 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	556.11	55.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	146.28	
For Cement Mortar Lining (CML), Add	47.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-27.81	
For Class 51, Add	65.37	
For Class 52, Add	141.35	
For Class 53, Add	256.03	
For Class 54, Add	365.85	
For Class 55, Add	419.79	
For Class 56, Add	472.75	
33 14 13 13-1105 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1106 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	255.11	38.14
For Cement Mortar Lining (CML), Add	19.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	369.72	56.25
For Cement Mortar Lining (CML), Add	28.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	495.81	66.80
For Cement Mortar Lining (CML), Add	39.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	749.33	73.91
For Cement Mortar Lining (CML), Add	59.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	107.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	968.36	86.72
For Cement Mortar Lining (CML), Add	78.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	142.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.19	
Note: ANSI/AWWA C151/A21.51		

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1111	EA		14" 90 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,931.79 173.07 311.52 129.80	97.28
33 14 13 13-1112	EA		16" 90 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,183.61 195.38 351.69 146.54	111.21
33 14 13 13-1113	EA		18" 90 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,405.01 308.33 555.00 231.25	155.69
33 14 13 13-1114	EA		20" 90 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,826.96 343.45 618.21 257.59	196.24
33 14 13 13-1115	EA		24" 90 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,778.48 428.79 771.83 321.59	245.34
33 14 13 13-1116			Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1117	EA		4" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	210.25 15.25 27.44 11.43	38.14
33 14 13 13-1118	EA		6" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	309.39 22.41 40.34 16.81	56.25
33 14 13 13-1119	EA		8" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	430.89 32.96 59.33 24.72	66.80
33 14 13 13-1120	EA		10" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	659.71 50.68 91.23 38.01	73.91
33 14 13 13-1121	EA		12" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	854.16 67.49 121.49 50.62	86.72
33 14 13 13-1122	EA		14" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,218.72 101.76 183.17 76.32	97.28
33 14 13 13-1123	EA		16" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,810.23 158.05 284.48 118.53	111.21



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124	EA			18" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,076.71 175.50 315.91 131.63	155.69
33 14 13 13-1125	EA			20" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,917.52 252.51 454.51 189.38	196.24
33 14 13 13-1126	EA			24" 45 Degree Elbow, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,620.17 312.96 563.33 234.72	245.34
33 14 13 13-1127 Push-On Joint Ductile Iron Tee <small>(33 14 13 13-1088)</small>						
33 14 13 13-1128	EA			4" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	390.38 30.51 54.92 22.88	56.25
33 14 13 13-1129	EA			6" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	542.79 41.75 75.15 31.31	82.67
33 14 13 13-1130	EA			8" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	743.81 59.19 106.53 44.39	100.20
33 14 13 13-1131	EA			10" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,099.83 93.13 167.64 69.85	112.33
33 14 13 13-1132	EA			12" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,371.07 117.45 211.41 88.09	129.52
33 14 13 13-1133	EA			14" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,217.06 198.12 356.61 148.59	155.69
33 14 13 13-1134	EA			16" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,209.70 291.48 524.67 218.61	194.67
33 14 13 13-1135	EA			18" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,031.71 363.82 654.88 272.87	259.71
33 14 13 13-1136	EA			20" Tee, Push-On Joint Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,749.22 426.91 768.44 320.18	316.89

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137	EA		24" Tee, Push-On Joint Ductile Iron.....	6,223.50	396.08
			For Cement Mortar Lining (CML), Add	562.34	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,012.22	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	421.76	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138			Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1088)		
33 14 13 13-1139	EA		4" Flanged End x Push-On Joint Adapter, Ductile Iron.....	429.01	132.30
			For Cement Mortar Lining (CML), Add	22.86	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	41.14	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.14	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140	EA		6" Flanged End x Push-On Joint Adapter, Ductile Iron.....	525.21	163.80
			For Cement Mortar Lining (CML), Add	27.71	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	49.87	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.78	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141	EA		8" Flanged End x Push-On Joint Adapter, Ductile Iron.....	687.79	191.04
			For Cement Mortar Lining (CML), Add	39.83	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	71.69	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.87	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142	EA		10" Flanged End x Push-On Joint Adapter, Ductile Iron.....	940.73	278.02
			For Cement Mortar Lining (CML), Add	51.95	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	93.51	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.96	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143	EA		12" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,139.45	317.79
			For Cement Mortar Lining (CML), Add	65.80	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	118.44	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.35	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144	EA		14" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,315.01	342.16
			For Cement Mortar Lining (CML), Add	79.66	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	143.38	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.74	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145	EA		16" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,566.01	370.70
			For Cement Mortar Lining (CML), Add	100.44	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	180.78	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.33	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146	EA		18" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,851.51	444.84
			For Cement Mortar Lining (CML), Add	117.75	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	211.95	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.31	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147	EA		20" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,151.52	494.26
			For Cement Mortar Lining (CML), Add	140.26	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	252.47	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.20	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1148	EA		24" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,699.64	570.31
			For Cement Mortar Lining (CML), Add	183.55	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	330.40	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.67	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1149	EA		30" Flanged End x Push-On Joint Adapter, Ductile Iron.....	4,331.18	684.32
			For Cement Mortar Lining (CML), Add	329.43	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	592.97	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	247.07	
			Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,996.50 470.04 846.06 352.53	855.42
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,584.14 608.64 1,095.55 456.48	988.53
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,679.29 775.36 1,395.65 581.52	1,270.93
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,762.97 951.57 1,712.83 713.68	1,483.13
33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints <small>(33 14 13 13-1088)</small> <i>Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.</i>		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	51.57	20.60
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	67.56	26.88
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	88.03	27.49
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	104.12	29.20
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	123.83	32.43
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	156.33	36.49
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	184.43	41.70
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	207.87	45.18
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	242.40	54.21
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	291.34	56.30
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	373.82	62.56
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	488.07	67.76
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	602.86	74.14
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	711.41	83.41
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	983.62	90.45
33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) <small>(33 14 13 13-1088)</small>		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	241.15	75.82
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	318.06	92.57
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	409.43	112.89
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000).....	616.55	137.72
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	764.70	167.93
33 14 13 13-1176 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	1,317.08	204.89
33 14 13 13-1177 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	1,503.87	250.05
33 14 13 13-1178 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,707.52	304.98
33 14 13 13-1179 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	2,320.51	372.16
33 14 13 13-1180 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	2,959.40	453.94
33 14 13 13-1181 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	5,104.60	553.91
33 14 13 13-1182 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	7,241.15	675.67
33 14 13 13-1183 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	13,147.98	824.41
33 14 13 13-1184 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	17,008.56	1,005.72
33 14 13 13-1185 Ductile Iron Pipe Repair <small>(33 14 13 13-0001)</small> <i>See CSI section 33 14 13 13-0002 for mechanical joint fittings.</i>		
33 14 13 13-1186 Ductile Iron Pipe Repair <small>(33 14 13 13-1185)</small> <i>Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.</i>		
33 14 13 13-1187 EA 30" Diameter Mechanical Ductile Iron Push Joint	3,836.64	
33 14 13 13-1188 EA 36" Diameter Mechanical Ductile Iron Push Joint	4,889.80	
33 14 13 13-1189 EA 42" Diameter Mechanical Ductile Iron Push Joint	6,246.84	
33 14 13 13-1190 EA 48" Diameter Mechanical Ductile Iron Push Joint	7,858.26	
33 14 13 13-1191 EA 54" Diameter Mechanical Ductile Iron Push Joint	11,446.68	
33 14 13 13-1192 WEKO Seals <small>(33 14 13 13-1185)</small> <i>Note: Internal joint seal.</i>		
33 14 13 13-1193 EA 16" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,229.59 86.07	212.12

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1194 EA 18" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,375.77 86.97	223.99
33 14 13 13-1195 EA 20" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,521.76 87.87	235.85
33 14 13 13-1196 EA 24" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,670.60 89.30	254.72
33 14 13 13-1197 EA 30" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,754.43 90.73	273.58
33 14 13 13-1198 EA 36" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,887.66 92.51	297.17
33 14 13 13-1199 EA 42" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	3,076.79 94.66	325.47
33 14 13 13-1200 EA 48" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	3,323.77 96.44	349.06
33 14 13 13-1201 EA 54" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	3,446.60 97.87	367.92
33 14 13 13-1202 EA 60" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	3,590.24 100.02	396.23
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.73 -0.14 0.08	0.88
33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.07 -0.15 0.11	0.94
33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.72 -0.19 0.17	1.03
33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.41 -0.22 0.24	1.13
33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	6.08 -0.30 0.44	1.26
33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	8.23 -0.41 0.69	1.44
33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	10.32 -0.52 0.95	1.60
33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	15.27 -0.76 1.55	1.98
33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	28.77 -1.44 3.38	2.51
33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	46.87 -2.34 5.72	3.50
33 14 13 23-0013 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	70.98 -3.55 8.90	4.67
33 14 13 23-0014 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	99.27 -4.96 12.53	6.29
33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0016 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	26.80	10.47
33 14 13 23-0017 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	34.10	13.09
33 14 13 23-0018 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	43.22	16.36
33 14 13 23-0019 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	78.00	18.10
33 14 13 23-0020 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	83.23	20.28
33 14 13 23-0021 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	100.35	23.01
33 14 13 23-0022 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	112.34	25.70
33 14 13 23-0023 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	164.04	31.56
33 14 13 23-0024 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	247.02	40.10
33 14 13 23-0025 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	424.96	52.65
33 14 13 23-0026 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	511.13	70.42
33 14 13 23-0027 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	672.27	94.80
33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0029 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	27.68	10.47
33 14 13 23-0030 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	34.73	13.09
33 14 13 23-0031 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	43.60	16.36
33 14 13 23-0032 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	66.48	18.10
33 14 13 23-0033 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	84.30	20.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0034 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	104.70	23.01
33 14 13 23-0035 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	110.50	25.70
33 14 13 23-0036 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	160.08	31.56
33 14 13 23-0037 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	239.02	40.10
33 14 13 23-0038 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	409.72	52.65
33 14 13 23-0039 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	447.97	70.42
33 14 13 23-0040 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	584.85	94.80
33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0042 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	40.14	15.71
33 14 13 23-0043 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	50.87	19.74
33 14 13 23-0044 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	64.04	24.66
33 14 13 23-0045 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	102.83	27.27
33 14 13 23-0046 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	118.31	30.32
33 14 13 23-0047 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	139.28	34.58
33 14 13 23-0048 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	173.39	38.46
33 14 13 23-0049 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	234.33	47.40
33 14 13 23-0050 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	425.74	60.25
33 14 13 23-0051 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	660.94	78.96
33 14 13 23-0052 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	747.96	112.16
33 14 13 23-0053 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	914.10	150.94
33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0055 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	18.02	6.98
33 14 13 23-0056 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	24.40	9.38
33 14 13 23-0057 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	33.03	12.33
33 14 13 23-0058 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	53.24	13.63
33 14 13 23-0059 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	58.36	15.16
33 14 13 23-0060 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	66.38	17.24
33 14 13 23-0061 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	77.08	19.23
33 14 13 23-0062 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	111.37	23.65
33 14 13 23-0063 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	166.90	30.12
33 14 13 23-0064 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	307.48	39.48
33 14 13 23-0065 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	349.20	56.14
33 14 13 23-0066 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	437.06	75.46
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.17	0.88
For >1,000, Deduct	-0.16	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.15	
33 14 13 23-0070 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.92	0.94
For >1,000, Deduct	-0.20	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.24	
33 14 13 23-0071 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.20	1.13
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.36	
33 14 13 23-0072 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.37	1.26
For >1,000, Deduct	-0.32	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.48	
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.70	1.44
For >1,000, Deduct	-0.44	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.77	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	10.62	1.60
For >1,000, Deduct	-0.53	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.99	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	14.46	1.98
For >1,000, Deduct	-0.72	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.43	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	22.89	2.51
For >1,000, Deduct	-1.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.49	
33 14 13 23-0077 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.12	10.47
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	34.29	13.09
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	47.90	18.10
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	54.64	20.28
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	68.23	23.01
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	77.20	25.70
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	105.22	31.56
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	184.03	40.10
33 14 13 23-0086 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.04	10.47
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	34.21	13.09

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	47.93	18.10
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	54.34	20.28
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	67.41	23.01
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	76.23	25.70
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	103.28	31.56
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	177.84	40.10
33 14 13 23-0095 Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes <small>(33 14 13 23-0067)</small>		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	40.47	15.71
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	51.13	19.74
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	71.47	27.27
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	80.89	30.32
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	102.82	34.58
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	119.73	38.46
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	149.94	47.40
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	282.01	60.25
33 14 13 23-0104 Schedule 40 Polyvinyl Chloride (PVC) Couplings <small>(33 14 13 23-0067)</small>		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	18.17	6.98
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	24.52	9.38
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	35.54	13.63
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	40.42	15.16
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	48.55	17.24
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	56.42	19.23
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	70.24	23.65
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	113.42	30.12
33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0067)</small>		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	54.27	20.95
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	68.08	26.29
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	95.26	36.32
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	107.82	40.47
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	137.01	46.03
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	159.49	51.31
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	199.73	63.13
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	375.24	80.30
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings <small>(33 14 13 23)</small>		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0122)</small>		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.40	0.94
For >1,000, Deduct	-0.22	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.31	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.17	1.13
For >1,000, Deduct	-0.31	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.50	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	8.01	1.26
For >1,000, Deduct	-0.40	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.73	
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.82	1.44
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.08	
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	13.59	1.60
For >1,000, Deduct	-0.68	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.44	
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	19.01	1.98
For >1,000, Deduct	-0.95	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.11	
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	33.02	2.51
For >1,000, Deduct	-1.65	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	4.01	
33 14 13 23-0131 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(33 14 13 23-0122)</small>		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	36.81	13.09
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	47.90	18.10
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	57.16	20.28
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	73.59	23.01
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	82.17	25.70
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	106.42	31.56
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	178.36	40.10
33 14 13 23-0139 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(33 14 13 23-0122)</small>		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	47.14	13.09
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	57.85	18.10
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	66.73	20.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	91.53	23.01
33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	105.53	25.70
33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	153.39	31.56
33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	175.22	40.10
33 14 13 23-0147 Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0122)		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	56.42	19.74
33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	87.53	27.27
33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	100.04	30.32
33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	112.96	34.58
33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	129.43	38.46
33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	156.93	47.40
33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	281.75	60.25
33 14 13 23-0155 Schedule 80 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0122)		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	28.30	9.38
33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	42.03	13.63
33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	46.52	15.16
33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	64.23	17.24
33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	72.23	19.23
33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	89.45	23.65
33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	140.25	30.12
33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	75.11	26.29
33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	116.58	36.32
33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	133.24	40.47
33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	150.47	46.03
33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	172.36	51.31
33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	209.00	63.13
33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	374.91	80.30
33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0172 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0173 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	10.83	3.85
33 14 13 23-0174 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	15.70	4.67
33 14 13 23-0175 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	21.48	5.25
33 14 13 23-0176 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	28.24	5.83
33 14 13 23-0177 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	36.52	6.54
33 14 13 23-0178 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0179 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	11.95	3.85
33 14 13 23-0180 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	18.02	4.67
33 14 13 23-0181 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	25.39	5.25
33 14 13 23-0182 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	34.32	5.83
33 14 13 23-0183 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	45.01	6.54
33 14 13 23-0184 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0185 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	13.05	3.85
33 14 13 23-0186 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	20.33	4.67
33 14 13 23-0187 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	29.31	5.25
33 14 13 23-0188 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	40.27	5.83
33 14 13 23-0189 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	53.50	6.54
33 14 13 23-0190 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0191 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	57.32	9.80
33 14 13 23-0192 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	69.88	11.67
33 14 13 23-0193 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	93.72	14.01
33 14 13 23-0194 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	135.40	16.33
33 14 13 23-0195 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	186.86	18.67
33 14 13 23-0196 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	236.76	19.84
33 14 13 23-0197 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	299.84	21.36
33 14 13 23-0198 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0199 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	42.32	7.35
33 14 13 23-0200 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	53.07	8.17
33 14 13 23-0201 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	65.82	9.80
33 14 13 23-0202 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	80.92	11.67
33 14 13 23-0203 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	110.74	14.01
33 14 13 23-0204 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	159.82	16.33

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0205 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	219.57	18.67
33 14 13 23-0206 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	291.14	19.84
33 14 13 23-0207 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	370.40	21.36
33 14 13 23-0208 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0209 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	48.86	7.35
33 14 13 23-0210 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	62.15	8.17
33 14 13 23-0211 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	77.10	9.80
33 14 13 23-0212 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	95.55	11.67
33 14 13 23-0213 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	131.76	14.01
33 14 13 23-0214 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	191.38	16.33
33 14 13 23-0215 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	265.65	18.67
33 14 13 23-0216 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	345.73	19.84
33 14 13 23-0217 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	441.64	21.36
33 14 13 23-0218 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0219 LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	60.04	7.35
33 14 13 23-0220 LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	75.43	8.17
33 14 13 23-0221 LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	94.20	9.80
33 14 13 23-0222 LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	116.20	11.67
33 14 13 23-0223 LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	161.54	14.01
33 14 13 23-0224 LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	238.12	16.33
33 14 13 23-0225 LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	337.50	18.67
33 14 13 23-0226 LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	451.11	19.84
33 14 13 23-0227 LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	583.05	21.36
33 14 13 23-0228 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0229 LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	68.45	7.35
33 14 13 23-0230 LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	86.36	8.17
33 14 13 23-0231 LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	107.99	9.80
33 14 13 23-0232 LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	133.38	11.67
33 14 13 23-0233 LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	186.24	14.01
33 14 13 23-0234 LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	276.13	16.33
33 14 13 23-0235 LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	393.03	18.67
33 14 13 23-0236 LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	527.21	19.84
33 14 13 23-0237 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0238 LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	76.64	7.35
33 14 13 23-0239 LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	97.00	8.17
33 14 13 23-0240 LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	121.40	9.80
33 14 13 23-0241 LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	150.09	11.67
33 14 13 23-0242 LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	210.28	14.01
33 14 13 23-0243 LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	313.11	16.33
33 14 13 23-0244 LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	447.05	18.67
33 14 13 23-0245 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.		
33 14 13 23-0246 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0247 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	206.00	13.09
For DR 25, Deduct	-10.79	
33 14 13 23-0248 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	421.98	14.72
For DR 25, Deduct	-23.55	
33 14 13 23-0249 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	633.96	16.36
For DR 25, Deduct	-36.07	
33 14 13 23-0250 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	968.56	26.21
For DR 25, Deduct	-54.97	
33 14 13 23-0251 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,260.45	43.69
For DR 25, Deduct	-70.39	
33 14 13 23-0252 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,892.91	54.61
For DR 25, Deduct	-107.02	
33 14 13 23-0253 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,258.96	65.53
For DR 25, Deduct	-127.67	
33 14 13 23-0254 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,876.37	87.37
For DR 25, Deduct	-222.10	
33 14 13 23-0255 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,771.94	109.21
For DR 25, Deduct	-273.21	
33 14 13 23-0256 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,921.46	147.44
For DR 25, Deduct	-457.59	
33 14 13 23-0257 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0258 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	182.53	13.09
For DR 25, Deduct	-9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0259 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	315.49	14.72
For DR 25, Deduct	-17.16	
33 14 13 23-0260 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	399.84	16.36
For DR 25, Deduct	-22.03	
33 14 13 23-0261 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	565.94	26.21
For DR 25, Deduct	-30.81	
33 14 13 23-0262 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.63	43.69
For DR 25, Deduct	-40.16	
33 14 13 23-0263 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,454.66	54.61
For DR 25, Deduct	-80.73	
33 14 13 23-0264 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,843.78	65.53
For DR 25, Deduct	-102.76	
33 14 13 23-0265 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,182.23	87.37
For DR 25, Deduct	-180.45	
33 14 13 23-0266 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,952.47	109.21
For DR 25, Deduct	-224.04	
33 14 13 23-0267 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,577.73	147.44
For DR 25, Deduct	-316.97	
33 14 13 23-0268 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0269 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	179.66	13.09
For DR 25, Deduct	-9.21	
33 14 13 23-0270 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	315.50	14.72
For DR 25, Deduct	-17.16	
33 14 13 23-0271 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	399.85	16.36
For DR 25, Deduct	-22.03	
33 14 13 23-0272 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	565.95	26.21
For DR 25, Deduct	-30.81	
33 14 13 23-0273 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.63	43.69
For DR 25, Deduct	-40.16	
33 14 13 23-0274 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,450.28	52.42
For DR 25, Deduct	-80.73	
33 14 13 23-0275 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,843.76	65.53
For DR 25, Deduct	-102.76	
33 14 13 23-0276 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,182.23	87.37
For DR 25, Deduct	-180.45	
33 14 13 23-0277 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,952.47	109.21
For DR 25, Deduct	-224.04	
33 14 13 23-0278 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,577.73	147.44
For DR 25, Deduct	-316.97	
33 14 13 23-0279 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0280 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	158.64	13.09
For DR 25, Deduct	-7.95	
33 14 13 23-0281 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	315.50	14.72
For DR 25, Deduct	-17.16	
33 14 13 23-0282 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	399.85	16.36
For DR 25, Deduct	-22.03	
33 14 13 23-0283 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	565.95	26.21
For DR 25, Deduct	-30.81	
33 14 13 23-0284 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.63	43.69
For DR 25, Deduct	-40.16	
33 14 13 23-0285 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,450.28	52.42
For DR 25, Deduct	-80.73	
33 14 13 23-0286 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,843.76	65.53
For DR 25, Deduct	-102.76	
33 14 13 23-0287 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,182.23	87.37
For DR 25, Deduct	-180.45	
33 14 13 23-0288 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,952.47	109.21
For DR 25, Deduct	-224.04	
33 14 13 23-0289 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,577.73	147.44
For DR 25, Deduct	-316.97	
33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	244.85	14.72
For DR 25, Deduct	-12.92	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	473.06	16.36
For DR 25, Deduct	-26.42	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	660.20	18.54
For DR 25, Deduct	-37.39	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,361.90	32.76
For DR 25, Deduct	-77.78	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,662.30	65.53
For DR 25, Deduct	-91.88	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,002.13	81.91
For DR 25, Deduct	-170.30	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0297	EA		16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,718.42	98.30
			<i>For DR 25, Deduct</i>	-211.31	
33 14 13 23-0298	EA		18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,691.78	131.06
			<i>For DR 25, Deduct</i>	-265.78	
33 14 13 23-0299	EA		20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,634.26	163.82
			<i>For DR 25, Deduct</i>	-318.40	
33 14 13 23-0300	EA		24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,729.86	111.40
			<i>For DR 25, Deduct</i>	-450.42	
33 14 13 23-0301			Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0302	EA		6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	470.97	21.27
			<i>For DR 25, Deduct</i>	-25.71	
33 14 13 23-0303	EA		8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	640.72	22.90
			<i>For DR 25, Deduct</i>	-35.69	
33 14 13 23-0304	EA		8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	656.76	23.73
			<i>For DR 25, Deduct</i>	-36.56	
33 14 13 23-0305	EA		10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	852.77	32.76
			<i>For DR 25, Deduct</i>	-47.23	
33 14 13 23-0306	EA		10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,154.92	33.58
			<i>For DR 25, Deduct</i>	-65.27	
33 14 13 23-0307	EA		10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,235.51	34.40
			<i>For DR 25, Deduct</i>	-70.00	
33 14 13 23-0308	EA		12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,309.87	50.24
			<i>For DR 25, Deduct</i>	-72.56	
33 14 13 23-0309	EA		12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,503.60	51.06
			<i>For DR 25, Deduct</i>	-84.09	
33 14 13 23-0310	EA		12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,595.14	51.88
			<i>For DR 25, Deduct</i>	-89.48	
33 14 13 23-0311	EA		12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,625.20	56.79
			<i>For DR 25, Deduct</i>	-90.70	
33 14 13 23-0312	EA		14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,468.16	58.97
			<i>For DR 25, Deduct</i>	-141.01	
33 14 13 23-0313	EA		14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,567.42	59.79
			<i>For DR 25, Deduct</i>	-146.87	
33 14 13 23-0314	EA		14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,666.94	60.61
			<i>For DR 25, Deduct</i>	-152.74	
33 14 13 23-0315	EA		14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,774.09	65.53
			<i>For DR 25, Deduct</i>	-158.58	
33 14 13 23-0316	EA		14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,889.25	74.27
			<i>For DR 25, Deduct</i>	-164.44	
33 14 13 23-0317	EA		16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,080.17	72.08
			<i>For DR 25, Deduct</i>	-176.16	
33 14 13 23-0318	EA		16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,177.77	72.08
			<i>For DR 25, Deduct</i>	-182.02	
33 14 13 23-0319	EA		16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,277.05	72.90
			<i>For DR 25, Deduct</i>	-187.88	
33 14 13 23-0320	EA		16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,376.34	73.72
			<i>For DR 25, Deduct</i>	-193.73	
33 14 13 23-0321	EA		16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,501.26	87.37
			<i>For DR 25, Deduct</i>	-199.59	
33 14 13 23-0322	EA		16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,607.62	91.74
			<i>For DR 25, Deduct</i>	-205.45	
33 14 13 23-0323	EA		18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,806.58	93.93
			<i>For DR 25, Deduct</i>	-217.12	
33 14 13 23-0324	EA		18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,906.54	94.75
			<i>For DR 25, Deduct</i>	-223.02	
33 14 13 23-0325	EA		18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,005.82	95.57
			<i>For DR 25, Deduct</i>	-228.88	
33 14 13 23-0326	EA		18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,113.28	100.48
			<i>For DR 25, Deduct</i>	-234.74	
33 14 13 23-0327	EA		18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,228.34	109.21
			<i>For DR 25, Deduct</i>	-240.59	
33 14 13 23-0328	EA		18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,334.05	113.58
			<i>For DR 25, Deduct</i>	-246.41	
33 14 13 23-0329	EA		18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,468.40	120.14
			<i>For DR 25, Deduct</i>	-253.69	
33 14 13 23-0330	EA		20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,827.91	115.77
			<i>For DR 25, Deduct</i>	-275.78	
33 14 13 23-0331	EA		20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,996.27	116.59
			<i>For DR 25, Deduct</i>	-285.79	
33 14 13 23-0332	EA		20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,062.54	117.41
			<i>For DR 25, Deduct</i>	-289.66	
33 14 13 23-0333	EA		20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,137.09	122.32
			<i>For DR 25, Deduct</i>	-293.55	
33 14 13 23-0334	EA		20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,219.21	131.06
			<i>For DR 25, Deduct</i>	-297.43	
33 14 13 23-0335	EA		20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,332.78	135.42
			<i>For DR 25, Deduct</i>	-303.72	
33 14 13 23-0336	EA		20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,450.72	141.98
			<i>For DR 25, Deduct</i>	-310.01	
33 14 13 23-0337	EA		20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,542.48	152.90
			<i>For DR 25, Deduct</i>	-314.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0338 EA 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,684.50	153.99
For DR 25, Deduct	-322.59	
33 14 13 23-0339 EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,756.08	154.81
For DR 25, Deduct	-326.79	
33 14 13 23-0340 EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,827.65	155.63
For DR 25, Deduct	-330.98	
33 14 13 23-0341 EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,121.87	160.54
For DR 25, Deduct	-348.05	
33 14 13 23-0342 EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,423.69	169.29
For DR 25, Deduct	-365.11	
33 14 13 23-0343 EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,716.82	173.65
For DR 25, Deduct	-382.17	
33 14 13 23-0344 EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,014.31	180.20
For DR 25, Deduct	-399.23	
33 14 13 23-0345 EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,320.54	191.13
For DR 25, Deduct	-416.30	
33 14 13 23-0346 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,626.76	202.05
For DR 25, Deduct	-433.36	
33 14 13 23-0347 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0348 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	339.56	26.17
For DR 25, Deduct	-17.23	
33 14 13 23-0349 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	610.09	29.45
For DR 25, Deduct	-33.07	
33 14 13 23-0350 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	844.73	32.72
For DR 25, Deduct	-46.76	
33 14 13 23-0351 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,724.63	52.42
For DR 25, Deduct	-97.19	
33 14 13 23-0352 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,045.50	65.53
For DR 25, Deduct	-114.87	
33 14 13 23-0353 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,722.82	87.37
For DR 25, Deduct	-212.88	
33 14 13 23-0354 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,620.01	109.21
For DR 25, Deduct	-264.10	
33 14 13 23-0355 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,887.40	174.75
For DR 25, Deduct	-332.27	
33 14 13 23-0356 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,070.22	218.43
For DR 25, Deduct	-398.00	
33 14 13 23-0357 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	9,973.02	294.88
For DR 25, Deduct	-563.00	
33 14 13 23-0358 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0359 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	591.60	27.81
For DR 25, Deduct	-32.16	
33 14 13 23-0360 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	803.45	29.45
For DR 25, Deduct	-44.67	
33 14 13 23-0361 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	823.98	31.08
For DR 25, Deduct	-45.71	
33 14 13 23-0362 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,236.48	39.32
For DR 25, Deduct	-69.47	
33 14 13 23-0363 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,441.78	40.96
For DR 25, Deduct	-81.59	
33 14 13 23-0364 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,583.84	42.60
For DR 25, Deduct	-89.92	
33 14 13 23-0365 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,625.81	56.79
For DR 25, Deduct	-90.73	
33 14 13 23-0366 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,868.64	58.43
For DR 25, Deduct	-105.11	
33 14 13 23-0367 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,984.33	60.06
For DR 25, Deduct	-111.85	
33 14 13 23-0368 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,029.17	69.90
For DR 25, Deduct	-113.36	
33 14 13 23-0369 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,068.79	65.53
For DR 25, Deduct	-176.26	
33 14 13 23-0370 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,193.74	67.17
For DR 25, Deduct	-183.56	
33 14 13 23-0371 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,320.04	68.81
For DR 25, Deduct	-190.95	
33 14 13 23-0372 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,462.21	78.63
For DR 25, Deduct	-198.30	
33 14 13 23-0373 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,618.74	96.11
For DR 25, Deduct	-205.59	
33 14 13 23-0374 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,826.68	78.63
For DR 25, Deduct	-220.16	
33 14 13 23-0375 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,953.28	80.27
For DR 25, Deduct	-227.56	
33 14 13 23-0376 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,078.53	81.91
For DR 25, Deduct	-234.88	
33 14 13 23-0377 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,220.59	91.74
For DR 25, Deduct	-242.23	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0378	EA		16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,290.20	109.21
			<i>For DR 25, Deduct</i>	-244.31	
33 14 13 23-0379	EA		16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,516.45	117.96
			<i>For DR 25, Deduct</i>	-256.83	
33 14 13 23-0380	EA		18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,724.99	100.48
			<i>For DR 25, Deduct</i>	-271.44	
33 14 13 23-0381	EA		18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,851.28	102.12
			<i>For DR 25, Deduct</i>	-278.82	
33 14 13 23-0382	EA		18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,976.72	103.75
			<i>For DR 25, Deduct</i>	-286.15	
33 14 13 23-0383	EA		18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,116.95	113.58
			<i>For DR 25, Deduct</i>	-293.39	
33 14 13 23-0384	EA		18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,274.93	131.06
			<i>For DR 25, Deduct</i>	-300.77	
33 14 13 23-0385	EA		18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,414.00	139.80
			<i>For DR 25, Deduct</i>	-308.06	
33 14 13 23-0386	EA		18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,591.52	152.90
			<i>For DR 25, Deduct</i>	-317.14	
33 14 13 23-0387	EA		20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,990.71	122.32
			<i>For DR 25, Deduct</i>	-344.76	
33 14 13 23-0388	EA		20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,202.02	123.96
			<i>For DR 25, Deduct</i>	-357.25	
33 14 13 23-0389	EA		20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,286.70	125.60
			<i>For DR 25, Deduct</i>	-362.13	
33 14 13 23-0390	EA		20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,386.88	135.42
			<i>For DR 25, Deduct</i>	-366.96	
33 14 13 23-0391	EA		20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,502.36	152.90
			<i>For DR 25, Deduct</i>	-371.79	
33 14 13 23-0392	EA		20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,649.96	161.63
			<i>For DR 25, Deduct</i>	-379.60	
33 14 13 23-0393	EA		20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,808.90	174.75
			<i>For DR 25, Deduct</i>	-387.56	
33 14 13 23-0394	EA		20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,939.74	196.59
			<i>For DR 25, Deduct</i>	-392.79	
33 14 13 23-0395	EA		24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,002.93	160.54
			<i>For DR 25, Deduct</i>	-400.91	
33 14 13 23-0396	EA		24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,132.87	162.18
			<i>For DR 25, Deduct</i>	-408.51	
33 14 13 23-0397	EA		24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,223.92	163.82
			<i>For DR 25, Deduct</i>	-413.78	
33 14 13 23-0398	EA		24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,598.65	173.65
			<i>For DR 25, Deduct</i>	-435.08	
33 14 13 23-0399	EA		24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,988.77	191.13
			<i>For DR 25, Deduct</i>	-456.39	
33 14 13 23-0400	EA		24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,361.37	199.87
			<i>For DR 25, Deduct</i>	-477.70	
33 14 13 23-0401	EA		24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,744.23	212.97
			<i>For DR 25, Deduct</i>	-499.10	
33 14 13 23-0402	EA		24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,142.28	234.81
			<i>For DR 25, Deduct</i>	-520.36	
33 14 13 23-0403	EA		24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,541.84	256.65
			<i>For DR 25, Deduct</i>	-541.71	
33 14 13 23-0404			Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0405	EA		4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	123.03	13.09
			<i>For DR 25, Deduct</i>	-5.81	
33 14 13 23-0406	EA		6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	229.35	14.72
			<i>For DR 25, Deduct</i>	-11.99	
33 14 13 23-0407	EA		8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	276.06	16.36
			<i>For DR 25, Deduct</i>	-14.60	
33 14 13 23-0408	EA		10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	392.82	26.21
			<i>For DR 25, Deduct</i>	-20.42	
33 14 13 23-0409	EA		12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	624.84	32.76
			<i>For DR 25, Deduct</i>	-33.56	
33 14 13 23-0410	EA		14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,084.05	43.69
			<i>For DR 25, Deduct</i>	-59.80	
33 14 13 23-0411	EA		16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,284.17	54.61
			<i>For DR 25, Deduct</i>	-70.50	
33 14 13 23-0412	EA		18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,074.21	87.37
			<i>For DR 25, Deduct</i>	-173.97	
33 14 13 23-0413	EA		20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,446.43	109.21
			<i>For DR 25, Deduct</i>	-193.68	
33 14 13 23-0414	EA		24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,852.63	147.44
			<i>For DR 25, Deduct</i>	-273.47	
33 14 13 23-0415			Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0416	EA		4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	152.51	13.09
			<i>For DR 25, Deduct</i>	-7.58	
33 14 13 23-0417	EA		6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	207.22	14.72
			<i>For DR 25, Deduct</i>	-10.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0418 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	301.27	16.36
For DR 25, Deduct	-16.11	
33 14 13 23-0419 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	412.48	26.21
For DR 25, Deduct	-21.60	
33 14 13 23-0420 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	661.01	43.69
For DR 25, Deduct	-34.42	
33 14 13 23-0421 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,754.42	52.42
For DR 25, Deduct	-98.97	
33 14 13 23-0422 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,374.86	65.53
For DR 25, Deduct	-134.63	
33 14 13 23-0423 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,926.19	87.37
For DR 25, Deduct	-165.09	
33 14 13 23-0424 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,496.00	109.21
For DR 25, Deduct	-196.65	
33 14 13 23-0425 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,749.20	147.44
For DR 25, Deduct	-267.26	
33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.32	3.03
For SDR 19, Add	0.29	
For SDR 17, Add	0.71	
For SDR 15.5, Add	1.04	
For SDR 13.5, Add	1.63	
For SDR 11, Add	2.62	
33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.26	3.85
For SDR 26, Deduct	-0.29	
For SDR 19, Add	0.14	
For SDR 17, Add	0.35	
For SDR 15.5, Add	0.51	
For SDR 13.5, Add	0.79	
For SDR 11, Add	1.28	
33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	12.71	4.67
For SDR 26, Deduct	-0.62	
For SDR 19, Add	0.30	
For SDR 17, Add	0.75	
For SDR 15.5, Add	1.10	
For SDR 13.5, Add	1.72	
For SDR 11, Add	2.76	
33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	16.23	5.25
For SDR 26, Deduct	-1.05	
For SDR 19, Add	0.52	
For SDR 17, Add	1.27	
For SDR 15.5, Add	1.86	
For SDR 13.5, Add	2.91	
For SDR 11, Add	4.68	
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	20.58	5.83
For SDR 26, Deduct	-1.63	
For SDR 19, Add	0.80	
For SDR 17, Add	1.98	
For SDR 15.5, Add	2.90	
For SDR 13.5, Add	4.53	
For SDR 11, Add	7.28	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	25.80	6.54
For SDR 26, Deduct	-2.36	
For SDR 19, Add	1.16	
For SDR 17, Add	2.86	
For SDR 15.5, Add	4.18	
For SDR 13.5, Add	6.53	
For SDR 11, Add	10.50	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.70	7.35
For SDR 26, Deduct	-2.77	
For SDR 19, Add	1.36	
For SDR 17, Add	3.36	
For SDR 15.5, Add	4.92	
For SDR 13.5, Add	7.67	
For SDR 11, Add	12.35	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	36.06	8.17
For SDR 26, Deduct	-3.62	
For SDR 19, Add	1.78	
For SDR 17, Add	4.38	
For SDR 15.5, Add	6.42	
For SDR 13.5, Add	10.02	
For SDR 11, Add	16.13	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	44.61	9.80
For SDR 26, Deduct	-4.57	
For SDR 19, Add	2.24	
For SDR 17, Add	5.54	
For SDR 15.5, Add	8.12	
For SDR 13.5, Add	12.67	
For SDR 11, Add	20.39	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 23-0437	LF	20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	126.47	11.67
			<i>For SDR 26, Deduct</i>	-18.90	
			<i>For SDR 19, Add</i>	9.28	
			<i>For SDR 17, Add</i>	22.92	
			<i>For SDR 15.5, Add</i>	33.56	
			<i>For SDR 13.5, Add</i>	52.38	
			<i>For SDR 11, Add</i>	84.31	
33 14	13 23-0438	LF	24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	72.38	14.01
			<i>For SDR 26, Deduct</i>	-8.13	
			<i>For SDR 19, Add</i>	3.99	
			<i>For SDR 17, Add</i>	9.86	
			<i>For SDR 15.5, Add</i>	14.44	
			<i>For SDR 13.5, Add</i>	22.54	
			<i>For SDR 11, Add</i>	36.28	
33 14	13 23-0439		90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping ^{(33 14}		
		EA	3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	62.20	16.36
			<i>For SDR 26, Deduct</i>	-2.40	
			<i>For SDR 19, Add</i>	1.18	
			<i>For SDR 17, Add</i>	2.91	
			<i>For SDR 15.5, Add</i>	4.27	
			<i>For SDR 13.5, Add</i>	6.66	
			<i>For SDR 11, Add</i>	10.72	
33 14	13 23-0441	EA	4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	70.16	18.20
			<i>For SDR 26, Deduct</i>	-2.86	
			<i>For SDR 19, Add</i>	1.41	
			<i>For SDR 17, Add</i>	3.47	
			<i>For SDR 15.5, Add</i>	5.08	
			<i>For SDR 13.5, Add</i>	7.93	
			<i>For SDR 11, Add</i>	12.77	
33 14	13 23-0442	EA	6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	103.83	20.78
			<i>For SDR 26, Deduct</i>	-7.61	
			<i>For SDR 19, Add</i>	3.74	
			<i>For SDR 17, Add</i>	9.23	
			<i>For SDR 15.5, Add</i>	13.52	
			<i>For SDR 13.5, Add</i>	21.10	
			<i>For SDR 11, Add</i>	33.96	
33 14	13 23-0443	EA	8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	159.57	24.26
			<i>For SDR 26, Deduct</i>	-15.92	
			<i>For SDR 19, Add</i>	7.81	
			<i>For SDR 17, Add</i>	19.29	
			<i>For SDR 15.5, Add</i>	28.25	
			<i>For SDR 13.5, Add</i>	44.10	
			<i>For SDR 11, Add</i>	70.98	
33 14	13 23-0444	EA	10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	241.90	32.40
			<i>For SDR 26, Deduct</i>	-26.57	
			<i>For SDR 19, Add</i>	13.04	
			<i>For SDR 17, Add</i>	32.20	
			<i>For SDR 15.5, Add</i>	47.16	
			<i>For SDR 13.5, Add</i>	73.61	
			<i>For SDR 11, Add</i>	118.48	
33 14	13 23-0445	EA	12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	357.62	48.48
			<i>For SDR 26, Deduct</i>	-38.90	
			<i>For SDR 19, Add</i>	19.10	
			<i>For SDR 17, Add</i>	47.16	
			<i>For SDR 15.5, Add</i>	69.06	
			<i>For SDR 13.5, Add</i>	107.79	
			<i>For SDR 11, Add</i>	173.50	
33 14	13 23-0446	EA	14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	447.01	64.70
			<i>For SDR 26, Deduct</i>	-46.37	
			<i>For SDR 19, Add</i>	22.77	
			<i>For SDR 17, Add</i>	56.22	
			<i>For SDR 15.5, Add</i>	82.33	
			<i>For SDR 13.5, Add</i>	128.50	
			<i>For SDR 11, Add</i>	206.83	
33 14	13 23-0447	EA	16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	593.75	96.97
			<i>For SDR 26, Deduct</i>	-55.53	
			<i>For SDR 19, Add</i>	27.27	
			<i>For SDR 17, Add</i>	67.32	
			<i>For SDR 15.5, Add</i>	98.59	
			<i>For SDR 13.5, Add</i>	153.88	
			<i>For SDR 11, Add</i>	247.68	
33 14	13 23-0448	EA	18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	739.54	109.07
			<i>For SDR 26, Deduct</i>	-75.57	
			<i>For SDR 19, Add</i>	37.11	
			<i>For SDR 17, Add</i>	91.61	
			<i>For SDR 15.5, Add</i>	134.16	
			<i>For SDR 13.5, Add</i>	209.41	
			<i>For SDR 11, Add</i>	337.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	995.20	123.80
<i>For SDR 26, Deduct</i>	-113.65	
<i>For SDR 19, Add</i>	55.80	
<i>For SDR 17, Add</i>	137.76	
<i>For SDR 15.5, Add</i>	201.75	
<i>For SDR 13.5, Add</i>	314.90	
<i>For SDR 11, Add</i>	506.85	
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,264.01	145.51
<i>For SDR 26, Deduct</i>	-151.72	
<i>For SDR 19, Add</i>	74.49	
<i>For SDR 17, Add</i>	183.92	
<i>For SDR 15.5, Add</i>	269.34	
<i>For SDR 13.5, Add</i>	420.39	
<i>For SDR 11, Add</i>	676.65	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23-0426)</small>		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	68.41	17.13
<i>For SDR 26, Deduct</i>	-3.14	
<i>For SDR 19, Add</i>	1.54	
<i>For SDR 17, Add</i>	3.81	
<i>For SDR 15.5, Add</i>	5.58	
<i>For SDR 13.5, Add</i>	8.71	
<i>For SDR 11, Add</i>	14.01	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	78.32	19.40
<i>For SDR 26, Deduct</i>	-3.70	
<i>For SDR 19, Add</i>	1.82	
<i>For SDR 17, Add</i>	4.48	
<i>For SDR 15.5, Add</i>	6.57	
<i>For SDR 13.5, Add</i>	10.25	
<i>For SDR 11, Add</i>	16.50	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	119.83	22.38
<i>For SDR 26, Deduct</i>	-9.67	
<i>For SDR 19, Add</i>	4.75	
<i>For SDR 17, Add</i>	11.72	
<i>For SDR 15.5, Add</i>	17.16	
<i>For SDR 13.5, Add</i>	26.79	
<i>For SDR 11, Add</i>	43.11	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	213.10	26.45
<i>For SDR 26, Deduct</i>	-24.53	
<i>For SDR 19, Add</i>	12.04	
<i>For SDR 17, Add</i>	29.73	
<i>For SDR 15.5, Add</i>	43.54	
<i>For SDR 13.5, Add</i>	67.96	
<i>For SDR 11, Add</i>	109.39	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	292.66	38.83
<i>For SDR 26, Deduct</i>	-32.31	
<i>For SDR 19, Add</i>	15.87	
<i>For SDR 17, Add</i>	39.17	
<i>For SDR 15.5, Add</i>	57.36	
<i>For SDR 13.5, Add</i>	89.54	
<i>For SDR 11, Add</i>	144.12	
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	415.26	58.25
<i>For SDR 26, Deduct</i>	-44.12	
<i>For SDR 19, Add</i>	21.66	
<i>For SDR 17, Add</i>	53.49	
<i>For SDR 15.5, Add</i>	78.33	
<i>For SDR 13.5, Add</i>	122.26	
<i>For SDR 11, Add</i>	196.78	
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	501.34	72.75
<i>For SDR 26, Deduct</i>	-51.91	
<i>For SDR 19, Add</i>	25.49	
<i>For SDR 17, Add</i>	62.92	
<i>For SDR 15.5, Add</i>	92.15	
<i>For SDR 13.5, Add</i>	143.83	
<i>For SDR 11, Add</i>	231.51	
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	663.66	109.07
<i>For SDR 26, Deduct</i>	-61.64	
<i>For SDR 19, Add</i>	30.27	
<i>For SDR 17, Add</i>	74.72	
<i>For SDR 15.5, Add</i>	109.43	
<i>For SDR 13.5, Add</i>	170.80	
<i>For SDR 11, Add</i>	274.92	
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	848.41	127.08
<i>For SDR 26, Deduct</i>	-85.65	
<i>For SDR 19, Add</i>	42.05	
<i>For SDR 17, Add</i>	103.83	
<i>For SDR 15.5, Add</i>	152.05	
<i>For SDR 13.5, Add</i>	237.33	
<i>For SDR 11, Add</i>	381.99	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,175.68	150.09
<i>For SDR 26, Deduct</i>	-132.04	
<i>For SDR 19, Add</i>	64.83	
<i>For SDR 17, Add</i>	160.07	
<i>For SDR 15.5, Add</i>	234.41	
<i>For SDR 13.5, Add</i>	365.88	
<i>For SDR 11, Add</i>	588.90	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0462	EA		24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,518.86	181.94
			<i>For SDR 26, Deduct</i>	-178.44	
			<i>For SDR 19, Add</i>	87.61	
			<i>For SDR 17, Add</i>	216.31	
			<i>For SDR 15.5, Add</i>	316.77	
			<i>For SDR 13.5, Add</i>	494.43	
			<i>For SDR 11, Add</i>	795.82	
33 14 13 26			Galvanized Steel Public Water Utility Distribution Piping (33 14 13)		
			See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
33 14 13 36			Steel Public Water Utility Distribution Piping (33 14 13)		
33 14 13 36-0001			Steel Piping (33 14 13 36)		
33 14 13 36-0002			Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)		
			Note: ASTM A252 steel pipe. See CSI section 33 14 13 43-0001 for pipe coatings, 33 14 13 43-0049 for pipe linings.		
33 14 13 36-0003			Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0004	LF		8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	107.77	29.16
			<i>For <100, Add</i>	12.02	
			<i>For >1,000, Deduct</i>	-5.39	
33 14 13 36-0005	LF		8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	128.02	29.16
			<i>For <100, Add</i>	13.03	
			<i>For >1,000, Deduct</i>	-6.40	
33 14 13 36-0006	LF		10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	127.81	31.81
			<i>For <100, Add</i>	13.62	
			<i>For >1,000, Deduct</i>	-6.39	
33 14 13 36-0007	LF		10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	153.41	31.81
			<i>For <100, Add</i>	14.90	
			<i>For >1,000, Deduct</i>	-7.67	
33 14 13 36-0008	LF		12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	154.00	33.33
			<i>For <100, Add</i>	15.27	
			<i>For >1,000, Deduct</i>	-7.70	
33 14 13 36-0009	LF		12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	173.91	33.33
			<i>For <100, Add</i>	16.27	
			<i>For >1,000, Deduct</i>	-8.70	
33 14 13 36-0010	LF		14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	186.07	36.83
			<i>For <100, Add</i>	17.67	
			<i>For >1,000, Deduct</i>	-9.30	
33 14 13 36-0011	LF		14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	201.98	36.83
			<i>For <100, Add</i>	18.47	
			<i>For >1,000, Deduct</i>	-10.10	
33 14 13 36-0012	LF		16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	197.46	38.87
			<i>For <100, Add</i>	18.71	
			<i>For >1,000, Deduct</i>	-9.87	
33 14 13 36-0013	LF		16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	209.74	38.87
			<i>For <100, Add</i>	19.32	
			<i>For >1,000, Deduct</i>	-10.49	
33 14 13 36-0014	LF		18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	244.07	43.73
			<i>For <100, Add</i>	22.14	
			<i>For >1,000, Deduct</i>	-12.20	
33 14 13 36-0015	LF		20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	264.20	43.73
			<i>For <100, Add</i>	23.15	
			<i>For >1,000, Deduct</i>	-13.21	
33 14 13 36-0016			5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0017	LF		12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	211.43	57.17
			<i>For <100, Add</i>	19.56	
			<i>For >1,000, Deduct</i>	-10.57	
33 14 13 36-0018	LF		14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	250.49	62.90
			<i>For <100, Add</i>	22.45	
			<i>For >1,000, Deduct</i>	-12.52	
33 14 13 36-0019	LF		16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	277.94	65.75
			<i>For <100, Add</i>	24.38	
			<i>For >1,000, Deduct</i>	-13.90	
33 14 13 36-0020	LF		18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	313.53	74.32
			<i>For <100, Add</i>	27.47	
			<i>For >1,000, Deduct</i>	-15.68	
33 14 13 36-0021	LF		18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	327.18	74.32
			<i>For <100, Add</i>	28.15	
			<i>For >1,000, Deduct</i>	-16.36	
33 14 13 36-0022	LF		20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	339.81	74.32
			<i>For <100, Add</i>	28.78	
			<i>For >1,000, Deduct</i>	-16.99	
33 14 13 36-0023	LF		20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	354.37	74.32
			<i>For <100, Add</i>	29.51	
			<i>For >1,000, Deduct</i>	-17.72	
33 14 13 36-0024	LF		24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	410.65	85.76
			<i>For <100, Add</i>	34.01	
			<i>For >1,000, Deduct</i>	-20.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	455.70	85.76
<i>For <100, Add</i>	36.26	
<i>For >1,000, Deduct</i>	-22.79	
33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	566.27	85.76
<i>For <100, Add</i>	41.79	
<i>For >1,000, Deduct</i>	-28.31	
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	509.80	100.05
<i>For <100, Add</i>	41.21	
<i>For >1,000, Deduct</i>	-25.49	
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	528.23	100.05
<i>For <100, Add</i>	42.13	
<i>For >1,000, Deduct</i>	-26.41	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	702.05	100.05
<i>For <100, Add</i>	50.83	
<i>For >1,000, Deduct</i>	-35.10	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	605.36	100.05
<i>For <100, Add</i>	45.99	
<i>For >1,000, Deduct</i>	-30.27	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	710.04	120.07
<i>For <100, Add</i>	54.37	
<i>For >1,000, Deduct</i>	-35.50	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	844.85	120.07
<i>For <100, Add</i>	61.11	
<i>For >1,000, Deduct</i>	-42.24	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	811.18	120.07
<i>For <100, Add</i>	59.43	
<i>For >1,000, Deduct</i>	-40.56	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,237.53	134.36
<i>For <100, Add</i>	82.84	
<i>For >1,000, Deduct</i>	-61.88	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	756.79	134.36
<i>For <100, Add</i>	58.80	
<i>For >1,000, Deduct</i>	-37.84	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,418.81	151.52
<i>For <100, Add</i>	94.53	
<i>For >1,000, Deduct</i>	-70.94	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	830.68	151.52
<i>For <100, Add</i>	65.12	
<i>For >1,000, Deduct</i>	-41.53	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,487.93	171.53
<i>For <100, Add</i>	101.35	
<i>For >1,000, Deduct</i>	-74.40	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,641.50	171.53
<i>For <100, Add</i>	109.03	
<i>For >1,000, Deduct</i>	-82.08	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,836.40	200.12
<i>For <100, Add</i>	123.27	
<i>For >1,000, Deduct</i>	-91.82	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,290.36	200.12
<i>For <100, Add</i>	95.97	
<i>For >1,000, Deduct</i>	-64.52	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,437.78	163.75
<i>For <100, Add</i>	121.01	
<i>For >1,000, Deduct</i>	-71.89	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,670.92	163.75
<i>For <100, Add</i>	182.67	
<i>For >1,000, Deduct</i>	-133.55	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)

33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	118.11	29.61
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	177.75	56.95
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	236.58	75.16
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	375.46	113.89
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	489.79	143.50
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	656.47	168.50
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	781.91	211.18
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	841.30	211.18
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	889.77	224.67
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	973.64	258.37
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,061.75	292.07
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,328.38	308.92
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,584.23	336.99
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,853.76	379.12
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,135.89	426.87
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,484.96	491.45
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,760.29	561.66
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	3,192.24	702.08
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,687.12	853.73
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	4,396.50	1,010.99

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0002	LF	1/2" Type L Copper Water Distribution Pipe	8.50	2.10
33 14 13 39-0003	LF	3/4" Type L Copper Water Distribution Pipe	10.93	2.36
33 14 13 39-0004	LF	1" Type L Copper Water Distribution Pipe	14.57	2.63
33 14 13 39-0005	LF	1-1/4" Type L Copper Water Distribution Pipe	18.37	3.16
33 14 13 39-0006	LF	1-1/2" Type L Copper Water Distribution Pipe	22.77	4.21
33 14 13 39-0007	LF	2" Type L Copper Water Distribution Pipe	33.71	5.26
33 14 13 39-0008	LF	2-1/2" Type L Copper Water Distribution Pipe	42.27	6.31
33 14 13 39-0009	LF	3" Type L Copper Water Distribution Pipe	53.48	6.94
33 14 13 39-0010	LF	3-1/2" Type L Copper Water Distribution Pipe	71.73	8.73
33 14 13 39-0011	LF	4" Type L Copper Water Distribution Pipe	94.96	11.05
33 14 13 39-0012	LF	5" Type L Copper Water Distribution Pipe	155.07	13.78
33 14 13 39-0013	LF	6" Type L Copper Water Distribution Pipe	200.91	16.62
33 14 13 39-0014	LF	8" Type L Copper Water Distribution Pipe	351.16	18.62

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0016	LF	1/2" Type K Copper Water Distribution Pipe	9.12	2.10
33 14 13 39-0017	LF	3/4" Type K Copper Water Distribution Pipe	13.12	2.36
33 14 13 39-0018	LF	1" Type K Copper Water Distribution Pipe	16.75	2.63
33 14 13 39-0019	LF	1-1/4" Type K Copper Water Distribution Pipe	19.72	3.16
33 14 13 39-0020	LF	1-1/2" Type K Copper Water Distribution Pipe	24.76	4.21
33 14 13 39-0021	LF	2" Type K Copper Water Distribution Pipe	36.39	5.26
33 14 13 39-0022	LF	2-1/2" Type K Copper Water Distribution Pipe	49.71	6.31
33 14 13 39-0023	LF	3" Type K Copper Water Distribution Pipe	64.62	6.94
33 14 13 39-0024	LF	3-1/2" Type K Copper Water Distribution Pipe	84.82	8.73
33 14 13 39-0025	LF	4" Type K Copper Water Distribution Pipe	114.83	11.05
33 14 13 39-0026	LF	5" Type K Copper Water Distribution Pipe	196.17	13.78
33 14 13 39-0027	LF	6" Type K Copper Water Distribution Pipe	274.81	16.62
33 14 13 39-0028	LF	8" Type K Copper Water Distribution Pipe	487.55	18.62

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)

33 14 13 43-0001 Pipe Coatings (33 14 13 43)

33 14 13 43-0002 Epoxy Wrap And Pipe Coating (33 14 13 43-0001)
 Note: Applied at fabrication shop.

33 14 13 43-0003	LF	12" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	4.25	
33 14 13 43-0004	LF	14" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	5.65	
33 14 13 43-0005	LF	16" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.44	
33 14 13 43-0006	LF	18" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.77	
33 14 13 43-0007	LF	20" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	7.29	
33 14 13 43-0008	LF	24" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	8.50	
33 14 13 43-0009	LF	30" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	11.16	
33 14 13 43-0010	LF	36" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	17.63	
33 14 13 43-0011	LF	42" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	38.00	
33 14 13 43-0012	LF	48" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	43.42	
33 14 13 43-0013	LF	54" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	48.85	
33 14 13 43-0014	LF	60" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	54.28	
33 14 13 43-0015	LF	66" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	59.71	
33 14 13 43-0016	LF	72" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	65.11	
33 14 13 43-0017	LF	78" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	70.56	

33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)
 Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0019	LF	4" Diameter Cement Coated Pipe 1" To 2" Mesh	8.48	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0020	LF	6" Diameter Cement Coated Pipe 1" To 2" Mesh	10.44	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0021	LF	8" Diameter Cement Coated Pipe 1" To 2" Mesh	13.05	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0022	LF	10" Diameter Cement Coated Pipe 1" To 2" Mesh	14.54	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0023	LF	12" Diameter Cement Coated Pipe 1" To 2" Mesh	16.42	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0024	LF	14" Diameter Cement Coated Pipe 1" To 2" Mesh	19.21	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0025	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh	21.83	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0026	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh	24.63	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0027	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh	27.37	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0028	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh	32.83	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0029	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh	41.04	
Note: Reinforcing applied at fabrication shop.				
33 14 13 43-0030	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh	49.25	
Note: Reinforcing applied at fabrication shop.				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0031 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	57.46	
33 14 13 43-0032 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	65.67	
33 14 13 43-0033 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	73.88	
33 14 13 43-0034 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	82.08	
33 14 13 43-0035 LF 66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	90.29	
33 14 13 43-0036 LF 72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	98.50	
33 14 13 43-0037 LF 78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	106.71	
33 14 13 43-0038 Epoxy Wrap And Fitting Coating (33 14 13 43-0001) Note: Applied at fabrication shop.		
33 14 13 43-0039 EA 4" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	10.19 0.45	
33 14 13 43-0040 EA 6" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	12.93 0.61	
33 14 13 43-0041 EA 8" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	18.77 0.79	
33 14 13 43-0042 EA 10" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	31.49 1.15	
33 14 13 43-0043 EA 12" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	48.08 1.70	
33 14 13 43-0044 EA 14" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	75.34 2.60	
33 14 13 43-0045 EA 16" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	115.71 3.35	
33 14 13 43-0046 EA 18" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	156.89 3.45	
33 14 13 43-0047 EA 20" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	213.90 4.13	
33 14 13 43-0048 EA 24" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	311.09 5.78	
33 14 13 43-0049 Cement Pipe Lining (33 14 13 43)		
33 14 13 43-0050 Cement Pipe Lining (33 14 13 43-0049) Note: Shop applied.		
33 14 13 43-0051 LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	13.57 1.13	
33 14 13 43-0052 LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	16.86 1.39	
33 14 13 43-0053 LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	20.57 1.74	
33 14 13 43-0054 LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	26.70 2.17	
33 14 13 43-0055 LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	32.87 2.62	
33 14 13 43-0056 LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	42.03 3.06	
33 14 13 43-0057 LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	54.50 3.48	
33 14 13 43-0058 LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	65.15 3.34	
33 14 13 43-0059 LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	78.71 3.71	
33 14 13 43-0060 LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	95.44 4.45	
33 14 13 43-0061 LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	114.84 5.56	
33 14 13 43-0062 LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	138.20 6.67	
33 14 13 43-0063 LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	161.27 5.72	
33 14 13 43-0064 LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	184.24 6.54	
33 14 13 43-0065 LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	207.31 7.36	
33 14 13 43-0066 LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	230.38 8.18	
33 14 13 43-0067 LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	253.34 4.80	
33 14 13 43-0068 LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	276.41 5.23	
33 14 13 43-0069 LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	299.47 5.67	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 43-0070		Cement Fitting Lining <small>(33 14 13 43-0049)</small>	
Note: Shop applied.			
33 14 13 43-0071	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining	14.44
		<i>For 1/2" Thick, Add</i>	1.30
33 14 13 43-0072	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining	18.60
		<i>For 1/2" Thick, Add</i>	1.74
33 14 13 43-0073	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining	26.15
		<i>For 1/2" Thick, Add</i>	2.26
33 14 13 43-0074	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining	43.13
		<i>For 1/2" Thick, Add</i>	3.48
33 14 13 43-0075	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining	65.74
		<i>For 1/2" Thick, Add</i>	5.23
33 14 13 43-0076	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining	97.56
		<i>For 1/2" Thick, Add</i>	7.04
33 14 13 43-0077	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining	144.18
		<i>For 1/2" Thick, Add</i>	9.04
33 14 13 43-0078	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining	195.44
		<i>For 1/2" Thick, Add</i>	10.01
33 14 13 43-0079	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining	262.24
		<i>For 1/2" Thick, Add</i>	12.35
33 14 13 43-0080	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining	381.74
		<i>For 1/2" Thick, Add</i>	17.79

33 14 13 43-0081		8 Mil Polyethylene Encasement Tubing <small>(33 14 13 43)</small>	
Note: ANSI/AWWA C105/A21.5-99 section 4.2.			
33 14 13 43-0082	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing	1.70
33 14 13 43-0083	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing	2.76
33 14 13 43-0084	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing	3.32
33 14 13 43-0085	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing	4.16
33 14 13 43-0086	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing	5.67
33 14 13 43-0087	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing	7.25
33 14 13 43-0088	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	9.26
33 14 13 43-0089	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing	11.03
33 14 13 43-0090	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing	13.02
33 14 13 43-0091	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing	14.01

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)

33 14 13 53-0001		Double Stud Stainless Steel Service Saddles <small>(33 14 13 53)</small>	
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.			
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	267.58
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	373.05
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	385.67
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	319.33
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	400.31
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	333.88
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	419.32
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	375.35
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	441.75
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	391.60
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	453.10

33 14 13 53-0013		Double Bale Epoxy Coated Ductile Iron Body Service Saddles <small>(33 14 13 53)</small>	
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.			
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	225.95
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	226.10
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	240.58
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	229.71
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	245.74
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	271.34
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	288.53
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	264.24
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	290.06
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	304.84
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	278.85
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	305.46
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	320.19
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	293.93
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	319.81
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	334.34
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	483.10
33 14 13 53-0031	EA	6" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	495.72
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	317.89
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	348.99
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	362.53
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	570.44
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	354.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0037 EA 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	392.04	
33 14 13 53-0038 EA 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	635.64	
33 14 13 53-0039 EA 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	385.43	
33 14 13 53-0040 EA 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	424.70	
33 14 13 53-0041 EA 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	440.03	
33 14 13 53-0042 EA 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	707.99	
33 14 13 53-0043 EA 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	447.83	
33 14 13 53-0044 EA 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	478.75	
33 14 13 53-0045 EA 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	514.86	
33 14 13 53-0046 EA 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	866.39	
33 14 13 53-0047 EA 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	460.44	
33 14 13 53-0048 EA 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	522.48	
33 14 13 53-0049 EA 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	544.19	
33 14 13 53-0050 EA 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	930.40	
33 14 13 53-0051 EA 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	481.05	
33 14 13 53-0052 EA 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	545.33	
33 14 13 53-0053 EA 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	567.60	
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	968.10	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	531.18	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	612.60	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	603.35	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	667.22	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	629.98	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	709.96	
33 14 13 53-0061 Double Bale Bronze Service Saddles <small>(33 14 13 53)</small>		
33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	309.79	
33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	338.26	
33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	351.95	
33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	380.69	
33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	391.30	
33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	411.23	
33 14 13 53-0068 EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	380.50	
33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	404.45	
33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	479.11	
33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	517.50	
33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	712.83	
33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	803.70	
33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	827.63	
33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	922.30	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle <small>(33 14 13 53)</small>		
Note: Taps are compression or NPT.		
33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	324.86	
33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	357.28	
33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	369.75	
33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	401.02	
33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	413.30	
33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	434.41	
33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	464.37	
33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	496.60	
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	499.27	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	540.26	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	762.79	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	874.35	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	886.91	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	965.32	
33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,894.55	
33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,894.55	
33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,966.67	
33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,966.67	
33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,110.96	
33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,110.96	
33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve <small>(33 14 13 53)</small>		
33 14 13 53-0098 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,432.84	
33 14 13 53-0099 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,730.95	
33 14 13 53-0100 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,067.90	
33 14 13 53-0101 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,186.68	
33 14 13 53-0102 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,303.18	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,468.77	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,540.68	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,492.43	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,657.36	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,057.02	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,159.63	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,919.92	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,106.08	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,190.65	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,227.89	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,492.81	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,483.43	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,508.69	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,716.54	
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,766.74	
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,821.83	
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,951.34	
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,205.09	
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,395.03	
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,862.42	
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,998.34	
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,404.74	
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,747.34	
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,395.02	
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,574.26	
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,645.19	
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,992.39	
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,476.44	
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,742.18	
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,770.04	
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,933.84	
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,981.45	
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,549.99	
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,764.41	
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,814.88	
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,275.20	
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,495.53	

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,180.52	
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,256.50	
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,372.54	
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,414.52	
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,473.04	
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,688.63	
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,545.22	
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,602.22	
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,791.89	
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,462.85	
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,739.19	
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,822.19	
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,008.86	
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,610.05	
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,843.78	
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,280.03	
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,348.91	
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,748.00	
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,242.47	
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,564.46	
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,705.27	
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,776.35	
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,040.97	
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,747.65	
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,915.65	
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,873.09	
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,000.79	
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,177.70	
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,009.03	
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,176.84	
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,463.60	
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,534.52	
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,929.91	
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,597.61	
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,881.68	
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,740.49	
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,894.37	
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,101.70	
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,048.85	
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,223.77	



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve <small>(33 14 13 53)</small>					
33 14 13 53-0182	EA	4"	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,361.57	
33 14 13 53-0183	EA	6"	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,485.17	
33 14 13 53-0184	EA	6"	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,571.80	
33 14 13 53-0185	EA	8"	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,605.80	
33 14 13 53-0186	EA	8"	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,705.40	
33 14 13 53-0187	EA	8"	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,000.35	
33 14 13 53-0188	EA	10"	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,841.35	
33 14 13 53-0189	EA	10"	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,951.64	
33 14 13 53-0190	EA	10"	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,216.14	
33 14 13 53-0191	EA	10"	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,980.13	
33 14 13 53-0192	EA	12"	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,102.73	
33 14 13 53-0193	EA	12"	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,252.61	
33 14 13 53-0194	EA	12"	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,601.62	
33 14 13 53-0195	EA	12"	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,055.94	
33 14 13 53-0196	EA	12"	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,483.59	
33 14 13 53-0197	EA	14"	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,399.81	
33 14 13 53-0198	EA	14"	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,583.37	
33 14 13 53-0199	EA	14"	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,976.20	
33 14 13 53-0200	EA	14"	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,430.96	
33 14 13 53-0201	EA	14"	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,672.08	
33 14 13 53-0202	EA	16"	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,922.85	
33 14 13 53-0203	EA	16"	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,173.33	
33 14 13 53-0204	EA	16"	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,364.49	
33 14 13 53-0205	EA	16"	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,853.37	
33 14 13 53-0206	EA	16"	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,185.42	
33 14 13 53-0207	EA	18"	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,224.28	
33 14 13 53-0208	EA	18"	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,598.00	
33 14 13 53-0209	EA	18"	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,797.46	
33 14 13 53-0210	EA	18"	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,227.21	
33 14 13 53-0211	EA	18"	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,795.36	
33 14 13 53-0212	EA	20"	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,484.34	
33 14 13 53-0213	EA	20"	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,857.10	
33 14 13 53-0214	EA	20"	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,019.39	
33 14 13 53-0215	EA	20"	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,818.00	
33 14 13 53-0216	EA	20"	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,263.09	
33 14 13 53-0217	EA	24"	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,123.50	
33 14 13 53-0218	EA	24"	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,177.64	
33 14 13 53-0219	EA	24"	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,372.00	
33 14 13 53-0220	EA	24"	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,325.01	
33 14 13 53-0221	EA	24"	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,834.27	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter <small>(33 14 13 53)</small>					
33 14 13 53-0223	EA	3"	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	342.11	66.41
33 14 13 53-0224	EA	4"	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	428.73	83.74
33 14 13 53-0225	EA	6"	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	584.66	115.51
33 14 13 53-0226	EA	8"	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	729.40	135.72
33 14 13 53-0227	EA	10"	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,135.16	153.04
33 14 13 53-0228	EA	12"	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,268.53	173.25
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter <small>(33 14 13 53)</small>					
33 14 13 53-0230	EA	3"	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	493.97	66.41
33 14 13 53-0231	EA	4"	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	584.99	83.74
33 14 13 53-0232	EA	6"	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	781.72	115.51
33 14 13 53-0233	EA	8"	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	955.31	135.72
33 14 13 53-0234	EA	10"	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,164.14	153.04
33 14 13 53-0235	EA	12"	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,355.68	173.25
33 14 13 53-0236	EA	14"	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,608.03	190.58
33 14 13 53-0237	EA	16"	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,901.41	207.91
33 14 13 53-0238	EA	18"	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,242.63	228.70
33 14 13 53-0239	EA	20"	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,646.94	251.57
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters <small>(33 14 13 53)</small>					
33 14 13 53-0241	EA	4"	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	438.89	83.74
33 14 13 53-0242	EA	6"	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	589.73	115.51
33 14 13 53-0243	EA	8"	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	654.38	135.72
33 14 13 53-0244	EA	10"	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	947.60	153.04
33 14 13 53-0245	EA	12"	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,203.14	173.25
33 14 13 53-0246	EA	14"	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,348.80	190.58
33 14 13 53-0247	EA	16"	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,582.69	207.91
33 14 13 53-0248	EA	18"	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,775.35	228.70
33 14 13 53-0249	EA	20"	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,129.54	251.57
33 14 13 53-0250	EA	24"	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,560.70	276.75
33 14 13 53-0251	EA	30"	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,286.02	304.35
33 14 13 53-0252	EA	36"	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	7,120.73	334.84

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0253	Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254	EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	157.49	46.21
33 14 13 53-0255	EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	193.90	54.86
33 14 13 53-0256	EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	239.78	66.41
33 14 13 53-0257	EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	301.17	83.74
33 14 13 53-0258	EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	402.47	115.51
33 14 13 53-0259	EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	488.18	135.72
33 14 13 53-0260	EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	607.02	153.04
33 14 13 53-0261	EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	708.87	173.25
33 14 13 53-0262	EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	987.35	190.58
33 14 13 53-0263	EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,226.48	207.91

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill.

33 14 19 00-0001	Accessories For Valves (33 14 19)		
33 14 19 00-0002	EA 1" Valve Extension Stem	120.34	
	For Each Additional LF, Add	8.72	
33 14 19 00-0003	EA Up to 80" Long Indicator Post Telescoping Barrel Assembly	1,660.75	113.89
	Note: Excludes valve.		
33 14 19 00-0004	EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,883.64	125.28
	Note: Excludes valve.		
33 14 19 00-0005	EA Adjust Water Valve Box To Grade	113.89	

33 14 19 00-0006 Water Utility Distribution Valves (33 14 19)**33 14 19 00-0007 Angle Valves (33 14 19 00-0006)**

Note: For connecting meters to water service.

33 14 19 00-0008	Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0007)		
	Note: Nibco T-335Y		
33 14 19 00-0009	EA 1/2" Threaded, Class 150, Bronze Angle Valve	103.58	19.78
33 14 19 00-0010	EA 3/4" Threaded, Class 150, Bronze Angle Valve	139.71	26.59
33 14 19 00-0011	EA 1" Threaded, Class 150, Bronze Angle Valve	187.43	32.76
33 14 19 00-0012	EA 1-1/4" Threaded, Class 150, Bronze Angle Valve	241.17	41.18
33 14 19 00-0013	EA 1-1/2" Threaded, Class 150, Bronze Angle Valve	300.36	47.61
33 14 19 00-0014	EA 2" Threaded, Class 150, Bronze Angle Valve	445.06	55.64
33 14 19 00-0015	EA 2-1/2" Threaded, Class 150, Bronze Angle Valve	709.97	75.96
33 14 19 00-0016	EA 3" Threaded, Class 150, Bronze Angle Valve	1,072.04	87.69

33 14 19 00-0017 Butterfly Valves (33 14 19 00-0006)**33 14 19 00-0018 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0017)**

Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin

33 14 19 00-0019	EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	2,140.02	210.21
33 14 19 00-0020	EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	2,394.27	210.21
33 14 19 00-0021	EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	2,408.86	325.38
33 14 19 00-0022	EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	2,660.94	325.38
33 14 19 00-0023	EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	2,766.16	386.16
33 14 19 00-0024	EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	3,018.24	386.16
33 14 19 00-0025	EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	3,125.03	493.43
33 14 19 00-0026	EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	3,375.66	493.43
33 14 19 00-0027	EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	3,919.21	600.70
33 14 19 00-0028	EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	3,919.21	600.70
33 14 19 00-0029	EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	4,485.58	728.11



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0030	EA		12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	4,737.65	728.11
33 14 19 00-0031	EA		14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12 Modified).....	6,015.04	1,027.99
33 14 19 00-0032	EA		14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12 Modified).....	6,674.21	1,027.99
33 14 19 00-0033	EA		16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16 Modified).....	7,008.43	1,130.79
33 14 19 00-0034	EA		16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20 Modified).....	7,816.81	1,130.79
33 14 19 00-0035	EA		18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....	8,790.99	1,254.15
33 14 19 00-0036	EA		18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified).....	9,647.18	1,254.15
33 14 19 00-0037	EA		20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....	10,075.26	1,413.48
33 14 19 00-0038	EA		20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified).....	10,930.00	1,413.48
33 14 19 00-0039			Lug Type Flanged, Ductile Iron Disc, Butterfly Valves <small>(33 14 19 00-0017)</small>		
			Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0040	EA		24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified).....	16,853.89	1,734.73
33 14 19 00-0041	EA		24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified).....	27,143.41	1,734.73
33 14 19 00-0042	EA		24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified).....	16,803.04	1,734.73
33 14 19 00-0043	EA		30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	27,599.23	2,740.11
33 14 19 00-0044	EA		36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	54,601.01	3,653.50
33 14 19 00-0045	EA		42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified).....	64,543.57	5,480.23
33 14 19 00-0046	EA		48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified).....	81,881.79	6,850.29
33 14 19 00-0047	EA		54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified).....	114,426.40	8,220.35
33 14 19 00-0048	EA		60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified).....	143,391.31	9,864.42
33 14 19 00-0049	EA		72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified).....	205,789.23	11,837.30
33 14 19 00-0050	LF		3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel.....	19.00	
33 14 19 00-0051	EA		316 Stainless Steel Closing Link For Use With DeZurik Chainwheel.....	10.00	
			Note: One required per valve.		
33 14 19 00-0052			Check Valves <small>(33 14 19 00-0006)</small>		
33 14 19 00-0053			Flanged, Swing Type Gravity Operated Check Valves <small>(33 14 19 00-0052)</small>		
			Note: AWWA C508. Bronze disc facing, Mueller A-2600-6.		
33 14 19 00-0054	EA		2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	1,409.63	165.14
33 14 19 00-0055	EA		3" Flanged, Swing Type Gravity Operated Check Valve.....	1,444.87	193.61
33 14 19 00-0056	EA		4" Flanged, Swing Type Gravity Operated Check Valve.....	1,970.69	244.86
33 14 19 00-0057	EA		4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	2,783.10	368.43
33 14 19 00-0058	EA		4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	2,884.22	411.46
33 14 19 00-0059	EA		6" Flanged, Swing Type Gravity Operated Check Valve.....	2,745.45	409.99
33 14 19 00-0060	EA		6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	3,604.13	466.04
33 14 19 00-0061	EA		6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	3,753.59	523.88
33 14 19 00-0062	EA		8" Flanged, Swing Type Gravity Operated Check Valve.....	3,916.45	523.88
33 14 19 00-0063	EA		10" Flanged, Swing Type Gravity Operated Check Valve.....	6,656.77	637.77
33 14 19 00-0064	EA		12" Flanged, Swing Type Gravity Operated Check Valve.....	10,128.92	478.33
33 14 19 00-0065	EA		14" Flanged, Swing Type Gravity Operated Check Valve.....	14,258.22	1,027.99
33 14 19 00-0066	EA		16" Flanged, Swing Type Gravity Operated Check Valve.....	18,996.41	1,130.79
33 14 19 00-0067	EA		18" Flanged, Swing Type Gravity Operated Check Valve.....	27,609.95	1,254.15

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0068 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	32,151.46	1,413.48
33 14 19 00-0069 Combination Air Release Valves (33 14 19 00-0006)		
33 14 19 00-0070 EA 1" Combination Air Release Valve	630.38	23.92
33 14 19 00-0071 EA 2" Combination Air Release Valve	1,017.51	41.00
33 14 19 00-0072 Corporation Stop And Curb Valve (33 14 19 00-0006)		
Note: AWWA C800		
33 14 19 00-0073 Ball Corporation Valves (33 14 19 00-0072)		
Note: Mueller B-25000.		
33 14 19 00-0074 EA 3/4" Ball Corporation Valve (Mueller B-25000)	84.53	23.92
33 14 19 00-0075 EA 1" Ball Corporation Valve (Mueller B-25000)	106.01	29.61
33 14 19 00-0076 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	186.48	43.27
33 14 19 00-0077 EA 2" Ball Corporation Valve (Mueller B-25000)	276.20	51.25
33 14 19 00-0078 Gate Valve, AWWA C500 And C509 (33 14 19 00-0006)		
33 14 19 00-0079 Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2380-6.		
33 14 19 00-0080 EA 2" Gate Valve, Flanged.....	868.28	151.81
33 14 19 00-0081 EA 2-1/2" Gate Valve, Flanged.....	1,017.20	165.14
33 14 19 00-0082 EA 3" Gate Valve, Flanged.....	1,203.72	193.61
33 14 19 00-0083 EA 4" Gate Valve, Flanged.....	1,559.51	242.58
33 14 19 00-0084 EA 6" Gate Valve, Flanged.....	1,950.51	409.99
33 14 19 00-0085 EA 8" Gate Valve, Flanged.....	2,895.07	523.88
33 14 19 00-0086 EA 10" Gate Valve, Flanged.....	4,363.63	637.77
33 14 19 00-0087 EA 12" Gate Valve, Flanged.....	5,262.58	478.33
33 14 19 00-0088 EA 14" Gate Valve, Flanged.....	11,568.67	1,027.99
33 14 19 00-0089 EA 16" Gate Valve, Flanged.....	15,155.53	1,130.79
33 14 19 00-0090 EA 18" Gate Valve, Flanged.....	24,061.03	1,254.15
33 14 19 00-0091 EA 20" Gate Valve, Flanged.....	28,781.82	1,413.48
33 14 19 00-0092 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2360-6.		
33 14 19 00-0093 EA 2" Resilient Wedge Gate Valve, Flanged.....	829.91	151.81
33 14 19 00-0094 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	971.35	165.14
33 14 19 00-0095 EA 3" Resilient Wedge Gate Valve, Flanged.....	1,149.30	193.61
33 14 19 00-0096 EA 4" Resilient Wedge Gate Valve, Flanged.....	1,498.68	242.58
33 14 19 00-0097 EA 6" Resilient Wedge Gate Valve, Flanged.....	1,869.20	409.99
33 14 19 00-0098 EA 8" Resilient Wedge Gate Valve, Flanged.....	2,768.04	523.88
33 14 19 00-0099 EA 10" Resilient Wedge Gate Valve, Flanged.....	4,161.78	637.77
33 14 19 00-0100 EA 12" Resilient Wedge Gate Valve, Flanged.....	5,018.86	478.33
33 14 19 00-0101 Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2380-20.		
33 14 19 00-0102 EA 2" Gate Valve, Mechanical Joint	1,016.64	121.29
33 14 19 00-0103 EA 2-1/2" Gate Valve, Mechanical Joint.....	1,098.60	152.04
33 14 19 00-0104 EA 3" Gate Valve, Mechanical Joint	1,381.33	183.93
33 14 19 00-0105 EA 4" Gate Valve, Mechanical Joint	1,644.43	242.58
33 14 19 00-0106 EA 6" Gate Valve, Mechanical Joint	2,070.05	284.72
33 14 19 00-0107 EA 8" Gate Valve, Mechanical Joint	3,017.86	341.66
33 14 19 00-0108 EA 10" Gate Valve, Mechanical Joint	4,425.22	398.61
33 14 19 00-0109 EA 12" Gate Valve, Mechanical Joint	5,542.30	478.33
33 14 19 00-0110 EA 14" Gate Valve, Mechanical Joint	12,305.87	629.64
33 14 19 00-0111 EA 16" Gate Valve, Mechanical Joint	15,937.07	706.74
33 14 19 00-0112 EA 18" Gate Valve, Mechanical Joint	25,459.34	783.84
33 14 19 00-0113 EA 20" Gate Valve, Mechanical Joint	30,292.26	883.43
33 14 19 00-0114 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2360-20.		
33 14 19 00-0115 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	972.82	121.29
33 14 19 00-0116 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	1,323.96	183.93
33 14 19 00-0117 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	1,578.81	242.58
33 14 19 00-0118 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	1,985.12	284.72
33 14 19 00-0119 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	2,885.74	341.66
33 14 19 00-0120 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	4,219.88	398.61
33 14 19 00-0121 EA 12" Resilient Wedge Gate Valve, Mechanical Joint	5,282.69	478.33
33 14 19 00-0122 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0078)		
Note: Mueller A-2361.		
33 14 19 00-0123 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	8,255.48	1,027.99
33 14 19 00-0124 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	8,976.01	1,130.79
33 14 19 00-0125 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	13,944.20	1,254.15
33 14 19 00-0126 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	16,634.76	1,413.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0127 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	23,599.61	1,734.73
33 14 19 00-0128 Gate Valve, Threaded, WW-V-51 Class A, Type 1 <small>(33 14 19 00-0078)</small>		
<small>Note: NIBCO T-113.</small>		
33 14 19 00-0129 EA 1/4" Gate Valve, Bronze, Threaded	61.69	19.91
33 14 19 00-0130 EA 3/8" Gate Valve, Bronze, Threaded	63.58	19.91
33 14 19 00-0131 EA 1/2" Gate Valve, Bronze, Threaded	63.13	19.91
33 14 19 00-0132 EA 3/4" Gate Valve, Bronze, Threaded	81.48	26.90
33 14 19 00-0133 EA 1" Gate Valve, Bronze, Threaded	100.38	32.52
33 14 19 00-0134 EA 1-1/4" Gate Valve, Bronze, Threaded	136.02	41.18
33 14 19 00-0135 EA 1-1/2" Gate Valve, Bronze, Threaded	157.80	47.61
33 14 19 00-0136 EA 2" Gate Valve, Bronze, Threaded	191.27	55.64
33 14 19 00-0137 EA 2-1/2" Gate Valve, Bronze, Threaded	364.18	75.96
33 14 19 00-0138 EA 3" Gate Valve, Bronze, Threaded	436.07	87.13
33 14 19 00-0139 Globe Valve, AWWA <small>(33 14 19 00-0006)</small>		
33 14 19 00-0140 Globe Valve, Threaded, WW-V-51 Class B, Type 1 <small>(33 14 19 00-0139)</small>		
<small>Note: NIBCO T-235.</small>		
33 14 19 00-0141 EA 1/8" Globe Valve, Threaded	86.52	19.91
33 14 19 00-0142 EA 1/4" Globe Valve, Threaded	82.72	19.91
33 14 19 00-0143 EA 3/8" Globe Valve, Threaded	84.61	19.91
33 14 19 00-0144 EA 1/2" Globe Valve, Threaded	86.52	19.91
33 14 19 00-0145 EA 3/4" Globe Valve, Threaded	117.49	26.90
33 14 19 00-0146 EA 1" Globe Valve, Threaded	164.13	32.52
33 14 19 00-0147 EA 1-1/4" Globe Valve, Threaded	239.07	41.18
33 14 19 00-0148 EA 1-1/2" Globe Valve, Threaded	285.17	47.61
33 14 19 00-0149 EA 2" Globe Valve, Threaded	396.41	55.64
33 14 19 00-0150 EA 2-1/2" Globe Valve, Threaded	724.08	75.96
33 14 19 00-0151 EA 3" Globe Valve, Threaded	989.08	87.58
33 14 19 00-0152 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0006)</small>		
33 14 19 00-0153 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0152)</small>		
<small>Note: Flanged inlet X mechanical joint, Mueller H-667.</small>		
33 14 19 00-0154 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,234.07	151.81
33 14 19 00-0155 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,590.23	193.61
33 14 19 00-0156 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,932.86	242.58
33 14 19 00-0157 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,521.04	409.99
33 14 19 00-0158 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,626.76	523.88
33 14 19 00-0159 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	5,252.82	637.77
33 14 19 00-0160 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	7,766.36	478.33
33 14 19 00-0161 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	14,144.06	1,027.99
33 14 19 00-0162 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	17,882.65	1,130.79
33 14 19 00-0163 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	28,896.67	1,254.15
33 14 19 00-0164 Fire Hydrants <small>(33 14 19)</small>		
<small>Note: Breakaway type.</small>		
33 14 19 00-0165 Three Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
<small>Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).</small>		
33 14 19 00-0166 EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,581.26	300.35
33 14 19 00-0167 EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,647.77	300.35
33 14 19 00-0168 EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,714.45	300.35
33 14 19 00-0169 EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,802.26	321.80
33 14 19 00-0170 EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,868.84	321.80
33 14 19 00-0171 EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,962.30	348.62
33 14 19 00-0172 EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,028.77	348.62
33 14 19 00-0173 EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,122.24	375.43
33 14 19 00-0174 EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,188.81	375.43
33 14 19 00-0175 EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,282.10	402.25
33 14 19 00-0176 EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,375.47	429.07
33 14 19 00-0177 EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,495.55	482.70
33 14 19 00-0178 EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,641.96	300.35
33 14 19 00-0179 EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,728.27	300.35
33 14 19 00-0180 EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,814.37	300.35
33 14 19 00-0181 EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,921.92	321.80
33 14 19 00-0182 EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,008.02	321.80
33 14 19 00-0183 EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,121.26	348.62
33 14 19 00-0184 EA 4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,207.25	348.62
33 14 19 00-0185 EA 5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,320.25	375.43
33 14 19 00-0186 EA 5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,406.33	375.43
33 14 19 00-0187 EA 6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,519.10	402.25
33 14 19 00-0188 EA 6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,632.23	429.07
33 14 19 00-0189 EA 7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,771.81	482.70

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0190			Two Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
			Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0191	EA		1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,216.18	300.35
33 14 19 00-0192	EA		2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,282.46	300.35
33 14 19 00-0193	EA		2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,349.12	300.35
33 14 19 00-0194	EA		3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,437.21	321.80
33 14 19 00-0195	EA		3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,503.57	321.80
33 14 19 00-0196	EA		4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,596.88	348.62
33 14 19 00-0197	EA		4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,663.45	348.62
33 14 19 00-0198	EA		5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,756.98	375.43
33 14 19 00-0199	EA		5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,823.41	375.43
33 14 19 00-0200	EA		6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,917.06	402.25
33 14 19 00-0201	EA		6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,010.01	429.07
33 14 19 00-0202	EA		7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,130.23	482.70
33 14 19 00-0203	EA		1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,309.94	300.35
33 14 19 00-0204	EA		2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,396.06	300.35
33 14 19 00-0205	EA		2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,482.05	300.35
33 14 19 00-0206	EA		3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,589.82	321.80
33 14 19 00-0207	EA		3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,675.70	321.80
33 14 19 00-0208	EA		4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,788.79	348.62
33 14 19 00-0209	EA		4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,874.72	348.62
33 14 19 00-0210	EA		5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,988.00	375.43
33 14 19 00-0211	EA		5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,073.88	375.43
33 14 19 00-0212	EA		6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,186.95	402.25
33 14 19 00-0213	EA		6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,299.66	429.07
33 14 19 00-0214	EA		7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,439.71	482.70
33 14 19 00-0215			Three Way, Modern Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
			Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0216	EA		1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,736.48	300.35
33 14 19 00-0217	EA		2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,822.47	300.35
33 14 19 00-0218	EA		2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,908.72	300.35
33 14 19 00-0219	EA		3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,016.32	321.80
33 14 19 00-0220	EA		3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,102.37	321.80
33 14 19 00-0221	EA		4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,215.29	348.62
33 14 19 00-0222	EA		4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,301.46	348.62
33 14 19 00-0223	EA		5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,414.39	375.43
33 14 19 00-0224	EA		5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,500.47	375.43
33 14 19 00-0225	EA		6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,613.39	375.43
33 14 19 00-0226	EA		6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,726.57	429.07
33 14 19 00-0227	EA		7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,865.25	429.07
33 14 19 00-0228			Two Way, Modern Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
			Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0229	EA		1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,658.22	300.35
33 14 19 00-0230	EA		2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,723.66	300.35
33 14 19 00-0231	EA		2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,789.83	300.35
33 14 19 00-0232	EA		3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,875.95	321.80
33 14 19 00-0233	EA		3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,941.37	321.80
33 14 19 00-0234	EA		4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,033.61	348.62
33 14 19 00-0235	EA		4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,099.01	348.62
33 14 19 00-0236	EA		5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,191.32	375.43
33 14 19 00-0237	EA		5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,256.55	375.43
33 14 19 00-0238	EA		6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,348.81	402.25
33 14 19 00-0239	EA		6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,441.14	429.07
33 14 19 00-0240	EA		7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,559.38	482.70
33 14 19 00-0241			Safetop Model With Breakable Section <small>(33 14 19 00-0164)</small>		
			Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0242	EA		4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,677.21	214.53
33 14 19 00-0243	EA		6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,864.02	241.35
33 14 19 00-0244	EA		8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,123.00	268.17
33 14 19 00-0245			Fire Hydrant Extension Kits <small>(33 14 19 00-0164)</small>		
33 14 19 00-0246	EA		6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	554.47	26.82
33 14 19 00-0247	EA		12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	658.84	33.52
33 14 19 00-0248	EA		18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	718.67	40.22
33 14 19 00-0249	EA		24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	816.94	49.61
33 14 19 00-0250	EA		30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,233.21	51.63
33 14 19 00-0251	EA		36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,317.11	53.63
33 14 19 00-0252	EA		42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,337.18	56.31
33 14 19 00-0253	EA		48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,412.36	60.34
33 14 19 00-0254	EA		54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,557.19	72.40
33 14 19 00-0255	EA		60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,643.48	87.15
33 14 19 00-0256	EA		6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	616.81	30.03
33 14 19 00-0257	EA		12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	730.43	36.47
33 14 19 00-0258	EA		18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	838.20	43.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0259 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	937.13	54.70
33 14 19 00-0260 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,282.84	56.85
33 14 19 00-0261 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,367.81	58.99
33 14 19 00-0262 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,426.34	62.21
33 14 19 00-0263 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,668.25	66.50
33 14 19 00-0264 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,828.41	79.37
33 14 19 00-0265 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,921.43	95.47
33 14 19 00-0266 Removal And Reinstallation Of Standard Fire Hydrant <small>(33 14 19 00-0164)</small>		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0267 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	858.13	
33 14 19 00-0268 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,251.45	
33 14 19 00-0269 EA Reset Fire Hydrant Upper Barrel	1,256.81	
Note: Includes Safety Repair Kit		
33 14 19 00-0270 Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0271 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	374.32	37.10
33 14 19 00-0272 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	401.85	37.10
33 14 19 00-0273 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	429.37	37.10
33 14 19 00-0274 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	347.08	46.99
33 14 19 00-0275 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	363.50	46.99
33 14 19 00-0276 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	379.91	46.99
33 14 19 00-0277 Sanitary Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0278 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,677.95	77.28
33 14 19 00-0279 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,763.97	77.28
33 14 19 00-0280 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,849.98	77.28
33 14 19 00-0281 Flushing Hydrants <small>(33 14 19)</small>		
33 14 19 00-0282 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	873.30	47.97
33 14 23 Enclosures for Water Utility Piping and Valves <small>(33 14)</small>		
Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0449 for Enclosures.		
33 14 23 00-0001 Roadway Utility Box <small>(33 14 23)</small>		
33 14 23 00-0002 Utility Box <small>(33 14 23 00-0001)</small>		
Note: Christy Concrete Products.		
33 14 23 00-0003 B3 Utility Box, 9-3/8" x 15-1/2" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0004 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	124.85	56.81
33 14 23 00-0005 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	125.41	6.31
33 14 23 00-0006 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	52.30	6.31
33 14 23 00-0007 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	274.04	6.31
33 14 23 00-0008 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	74.23	12.63
33 14 23 00-0009 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	106.53	12.63
33 14 23 00-0010 B9 Utility Box, 10-1/4" x 17-1/4" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0011 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	151.54	75.74
33 14 23 00-0012 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	146.90	7.57
33 14 23 00-0013 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	58.05	7.57
33 14 23 00-0014 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	287.49	6.31
33 14 23 00-0015 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	83.11	12.63
33 14 23 00-0016 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	111.37	18.94
33 14 23 00-0017 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	132.29	34.71
33 14 23 00-0018 B12 Utility Box, 12" x 20" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0019 EA 12" x 20" Precast Concrete Utility Box.....	166.58	82.05
33 14 23 00-0020 EA Cast Iron Lid For 12" x 20" Utility Box.....	264.41	9.47
33 14 23 00-0021 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	77.93	12.63
33 14 23 00-0022 EA Steel Checkered Plate Cover For 12" x 20" Utility Box	386.76	12.63
33 14 23 00-0023 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box.....	172.47	44.18
33 14 23 00-0024 B16 Utility Box, 12" x 22-1/4" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0025 EA 12" x 22-1/4" Precast Concrete Utility Box.....	191.77	95.94
33 14 23 00-0026 EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	298.81	12.63
33 14 23 00-0027 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	96.24	12.63
33 14 23 00-0028 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	388.95	12.63
33 14 23 00-0029 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	135.24	21.63
33 14 23 00-0030 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	175.51	44.18

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 23 00-0031	B30 Utility Box, 13-1/4" x 24" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0032	EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	230.99	113.61
33 14 23 00-0033	EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	129.72	20.20
33 14 23 00-0034	EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	480.86	16.41
33 14 23 00-0035	EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL)	135.24	21.46
33 14 23 00-0036	EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	207.24	35.34
33 14 23 00-0037	EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	161.76	23.98
33 14 23 00-0038	EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)	227.40	56.81
33 14 23 00-0039	B36 Utility Box, 17-1/4" x 30" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0040	EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	301.82	143.91
33 14 23 00-0041	EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	211.40	34.71
33 14 23 00-0042	EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	602.86	23.98
33 14 23 00-0043	EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	190.81	45.44
33 14 23 00-0044	EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	322.29	50.50
33 14 23 00-0045	EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	303.56	73.21
33 14 23 00-0046	B40 Utility Box, 24-1/2" x 36" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0047	EA 24-1/2" x 36" Precast Concrete Utility Box	623.60	222.17
33 14 23 00-0048	EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	578.23	83.31
33 14 23 00-0049	EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	856.35	36.61
33 14 23 00-0050	EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	473.01	78.27
33 14 23 00-0051	EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	501.81	82.05
33 14 23 00-0052	B48 Utility Box, 30-1/4" x 48-1/4" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0053	EA 30-1/4" x 48-1/4" Precast Concrete Utility Box	789.28	252.47
33 14 23 00-0054	EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	797.54	137.59
33 14 23 00-0055	EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	1,004.79	137.59
33 14 23 00-0056	EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	1,355.86	63.11
33 14 23 00-0057	EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	688.68	170.42
33 14 23 00-0058	EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	620.53	114.88
33 14 23 00-0059	Roadway Or Curb Valve Boxes <small>(33 14 23)</small>		
33 14 23 00-0060	Round Head, Cast Iron Service, Roadway Or Valve Boxes <small>(33 14 23 00-0059)</small>		
33 14 23 00-0061	EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	273.84	15.03
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0062	EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	319.39	15.03
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0063	EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	321.48	15.03
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0064	EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	80.75	7.52
33 14 23 00-0065	EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	92.81	7.52
33 14 23 00-0066	EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	110.96	7.52
33 14 23 00-0067	EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box	414.93	18.79
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0068	EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	721.86	26.31
	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0069	EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	806.82	26.31
	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0070	EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	431.78	18.79
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0071	EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	452.07	18.79
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0072	EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	436.57	18.79
	Note: Includes cover, top section and bottom section.		
33 14 23 00-0073	EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	157.85	7.52
33 14 23 00-0074	EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	261.62	30.92
33 14 23 00-0075	EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	270.84	32.15
33 14 23 00-0076	EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	301.61	33.39
33 14 23 00-0077	EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	418.42	35.24
33 14 23 00-0078	EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	505.77	37.10
33 14 23 00-0079	EA 18" Cast Iron Service Box Extension Section	119.34	
33 14 23 00-0080	Plastic Roadway Grade Water Meter Box And Cover <small>(33 14 23 00-0059)</small>		
33 14 23 00-0081	EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	507.92	43.28
33 14 23 00-0082	EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	384.53	30.92
33 14 23 00-0083	EA Cast Iron Lid For Plastic Meter Box	119.41	
33 14 23 00-0084	Traffic Valve Box And Lid <small>(33 14 23 00-0059)</small>		
33 14 23 00-0085	EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	223.44	
33 14 23 00-0086	EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	722.17	



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 19 Water Utility Metering Equipment (33 10)

33 19 13 Positive Displacement Water Meters (33 19)

33 19 13 23 Nutating Disc Water Meters (33 19 13)

33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)

33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	321.02	64.30
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	403.42	76.67
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	541.56	87.79
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,053.10	131.07
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,426.82	170.64

33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)

33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	583.75	64.30
		<i>For Owner Furnished Material, Deduct</i>	-518.66	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	665.63	76.67
		<i>For Owner Furnished Material, Deduct</i>	-588.35	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	991.09	87.79
		<i>For Owner Furnished Material, Deduct</i>	-902.76	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,677.24	131.07
		<i>For Owner Furnished Material, Deduct</i>	-1,545.70	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	2,076.49	170.64
		<i>For Owner Furnished Material, Deduct</i>	-1,904.75	
33 19 13 23-0013	EA	Electronic Transmitter	472.94	30.92
		Note: For use with transmitting meter valve.		
		<i>For Owner Furnished Material, Deduct</i>	-442.02	

33 19 16 Velocity-Type Water Meters (33 19)

33 19 16 23 Turbine Water Meters (33 19 16)

33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)

33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)

33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	1,024.80	119.58
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged	1,437.00	151.81
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged	2,691.15	193.61
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged	4,018.55	302.93
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged	7,552.37	409.99

33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)

33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	1,608.10	119.58
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	2,269.73	151.81
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	3,025.01	193.61
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	4,459.86	302.93
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	9,160.28	409.99
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	12,242.32	523.88
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	17,074.89	637.77
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	20,653.34	1,005.62

33 19 19 Compound Water Meters (33 19)

33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)

33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	4,269.07	151.81
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,216.23	193.61
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	8,619.71	302.93
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	12,053.76	409.99
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	24,710.36	523.88
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	42,271.91	637.77

33 19 23 Magnetic Water Meters (33 19)

33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)

33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	8,742.44	151.81
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	12,330.57	193.61
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	14,160.02	302.93

33 19 26 Ultrasonic Water Meters (33 19)

33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)

33 19 26 00-0002	EA	3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	4,427.09	193.61
33 19 26 00-0003	EA	4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	5,107.02	302.93
33 19 26 00-0004	EA	6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	7,513.36	409.99
33 19 26 00-0005	EA	8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	10,818.00	523.88

33	33 Utilities
	33 10 Water Utilities
	33 19 Water Utility Metering Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 30 Sanitary Sewerage Utilities ⁽³³⁾

33 31 Sanitary Sewerage Piping ^(33 30)

33 31 11 Public Sanitary Sewerage Gravity Piping ^(33 31)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001	Cast Iron Service Saddles With U Bolt ^(33 31 11)		
33 31 11 00-0002	EA 2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	124.85	
33 31 11 00-0003	EA 3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	125.52	
33 31 11 00-0004	EA 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	138.13	
33 31 11 00-0005	EA 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	133.70	
33 31 11 00-0006	EA 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	150.92	
33 31 11 00-0007	EA 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	169.81	
33 31 11 00-0008	EA 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	201.17	
33 31 11 00-0009	EA 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	170.33	
33 31 11 00-0010	EA 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	186.21	
33 31 11 00-0011	EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	214.76	
33 31 11 00-0012	EA 2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	176.85	
33 31 11 00-0013	EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	137.49	
33 31 11 00-0014	EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	150.11	
33 31 11 00-0015	EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	178.67	
33 31 11 00-0016	EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	212.05	
33 31 11 00-0017	EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	228.32	
33 31 11 00-0018	Plastic Sewer And Drain Piping ^(33 31 11)		
33 31 11 00-0019	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0018)		
33 31 11 00-0020	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.10	4.21
33 31 11 00-0021	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.58	4.97
33 31 11 00-0022	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	19.54	6.02
33 31 11 00-0023	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	24.85	7.02
33 31 11 00-0024	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	35.18	8.17
33 31 11 00-0025	LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	48.37	9.50
33 31 11 00-0026	LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	68.67	9.83
33 31 11 00-0027	LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	92.42	10.19
33 31 11 00-0028	Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe ^(33 31 11 00-0018)		
Note: D-2729 PVC pipe.			
33 31 11 00-0029	LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.39	6.02
33 31 11 00-0030	LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.98	7.02
33 31 11 00-0031	LF 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	22.08	8.17
33 31 11 00-0032	Polyvinyl Chloride (PVC) Sewer And Drain Fittings ^(33 31 11 00-0018)		
33 31 11 00-0033	1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0034	EA 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	29.37	14.51
33 31 11 00-0035	EA 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	37.75	18.76
33 31 11 00-0036	EA 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	67.86	25.19
33 31 11 00-0037	EA 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	107.32	29.13
33 31 11 00-0038	EA 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	444.36	37.85
33 31 11 00-0039	EA 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	740.18	50.94
33 31 11 00-0040	EA 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	977.01	67.84
33 31 11 00-0041	1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0042	EA 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	31.13	14.51
33 31 11 00-0043	EA 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	37.61	18.76
33 31 11 00-0044	EA 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	65.23	25.19
33 31 11 00-0045	EA 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	94.43	29.13
33 31 11 00-0046	EA 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	411.56	37.85
33 31 11 00-0047	EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	663.95	50.94
33 31 11 00-0048	EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	752.78	67.84
33 31 11 00-0049	EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	1,121.11	90.36
33 31 11 00-0050	Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain ^(33 31 11 00-0032)		
33 31 11 00-0051	EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	50.75	14.29
33 31 11 00-0052	EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	50.05	18.76
33 31 11 00-0053	EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	99.49	25.19
33 31 11 00-0054	EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	165.30	29.13
33 31 11 00-0055	EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	332.37	37.85
33 31 11 00-0056	EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	593.00	50.94
33 31 11 00-0057	EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	974.37	67.84
33 31 11 00-0058	EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	1,479.71	90.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0059 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0060 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.88	14.51
33 31 11 00-0061 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.41	18.76
33 31 11 00-0062 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	76.18	25.19
33 31 11 00-0063 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	114.75	29.13
33 31 11 00-0064 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	553.46	37.85
33 31 11 00-0065 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	899.00	50.94
33 31 11 00-0066 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,013.17	67.84
33 31 11 00-0067 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,034.32	90.36
33 31 11 00-0068 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0069 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.10	16.56
33 31 11 00-0070 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	78.28	19.76
33 31 11 00-0071 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.42	21.79
33 31 11 00-0072 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	116.30	23.82
33 31 11 00-0073 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	124.76	27.03
33 31 11 00-0074 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	391.80	33.46
33 31 11 00-0075 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	837.73	44.35
33 31 11 00-0076 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	234.99	48.43
33 31 11 00-0077 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	332.44	52.82
33 31 11 00-0078 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	306.25	59.32
33 31 11 00-0079 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	867.58	64.12
33 31 11 00-0080 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	915.85	70.62
33 31 11 00-0081 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	969.06	79.10
33 31 11 00-0082 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0083 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	46.48	21.92
33 31 11 00-0084 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	61.93	28.36
33 31 11 00-0085 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	108.00	37.41
33 31 11 00-0086 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	168.48	46.47
33 31 11 00-0087 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	651.18	50.94
33 31 11 00-0088 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	844.91	67.84
33 31 11 00-0089 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0090 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	60.09	21.92
33 31 11 00-0091 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.84	28.36
33 31 11 00-0092 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	118.10	37.41
33 31 11 00-0093 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	185.02	46.47
33 31 11 00-0094 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	589.10	50.94
33 31 11 00-0095 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	726.99	67.84
33 31 11 00-0096 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	956.11	90.53
33 31 11 00-0097 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,513.67	120.81
33 31 11 00-0098 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0099 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	81.47	21.92
33 31 11 00-0100 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.63	28.36
33 31 11 00-0101 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	104.05	37.41
33 31 11 00-0102 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	162.33	46.47
33 31 11 00-0103 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	177.84	46.47
33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0105 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	100.44	28.36
33 31 11 00-0106 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	130.69	37.41
33 31 11 00-0107 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	268.24	50.50
33 31 11 00-0108 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	481.96	61.08
33 31 11 00-0109 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	124.25	37.41
33 31 11 00-0110 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	219.04	50.50
33 31 11 00-0111 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	400.71	61.08
33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	77.08	21.92
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	96.34	28.36
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	197.74	37.41
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	363.63	46.47
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	154.02	28.36
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	249.99	37.41
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	177.31	37.41
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	339.14	46.47
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	361.54	46.47

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0122			Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0123	EA		1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	113.61	28.36
33 31 11 00-0124	EA		2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	132.16	37.41
33 31 11 00-0125	EA		3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	207.77	50.50
33 31 11 00-0126	EA		4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	787.37	61.08
33 31 11 00-0127	EA		6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	2,627.29	67.63
33 31 11 00-0128			Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0129	EA		4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	604.49	115.87
33 31 11 00-0130	EA		6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,475.56	149.49
33 31 11 00-0131	EA		8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,874.08	210.67
33 31 11 00-0132	EA		10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	2,574.82	338.88
33 31 11 00-0133			Couplings, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0134	EA		1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	28.45	14.51
33 31 11 00-0135	EA		2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	35.40	18.65
33 31 11 00-0136	EA		3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	56.60	24.98
33 31 11 00-0137	EA		4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	74.99	29.13
33 31 11 00-0138	EA		6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	229.90	37.85
33 31 11 00-0139	EA		8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	576.34	50.94
33 31 11 00-0140	EA		10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	876.59	67.84
33 31 11 00-0141	EA		12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	1,455.48	90.36
33 31 11 00-0142			Adapters, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0143	EA		4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	147.30	79.95
33 31 11 00-0144	EA		2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	100.45	60.82
33 31 11 00-0145	EA		2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	104.46	60.82
33 31 11 00-0146	EA		3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	115.07	60.82
33 31 11 00-0147	EA		4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	150.21	79.95
33 31 11 00-0148	EA		4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	141.72	79.95
33 31 11 00-0149	EA		4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	127.76	79.95
33 31 11 00-0150	EA		4" Drain Grate, Drain And Sewer Fitting	72.05	41.11
33 31 11 00-0151			Caps, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0152	EA		3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	47.72	15.60
33 31 11 00-0153	EA		4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	84.29	19.42
33 31 11 00-0154	EA		6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	169.61	25.08
33 31 11 00-0155			Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0156	EA		1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	26.61	14.51
33 31 11 00-0157	EA		2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	34.76	18.76
33 31 11 00-0158	EA		3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	53.62	25.19
33 31 11 00-0159	EA		4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	73.96	29.13
33 31 11 00-0160	EA		6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	136.89	37.85
33 31 11 00-0161	EA		8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	591.97	50.94
33 31 11 00-0162			Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0018)</small> Note: ASTM 3034.		
33 31 11 00-0163	LF		4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	17.88	7.02
			<i>For SDR 26, Add</i>	0.75	
33 31 11 00-0164	LF		6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	23.63	8.17
			<i>For SDR 26, Add</i>	1.43	
33 31 11 00-0165	LF		8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	31.40	9.50
			<i>For SDR 26, Add</i>	2.43	
33 31 11 00-0166	LF		10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	38.27	9.83
			<i>For SDR 26, Add</i>	3.64	
33 31 11 00-0167	LF		12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	46.55	10.19
			<i>For SDR 26, Add</i>	5.13	
33 31 11 00-0168	LF		15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	60.36	10.54
			<i>For SDR 26, Add</i>	7.70	
33 31 11 00-0169	LF		18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	76.15	10.93
33 31 11 00-0170	LF		21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	98.59	11.87
33 31 11 00-0171	LF		24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	119.37	12.80
33 31 11 00-0172	LF		27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	148.31	15.02
33 31 11 00-0173			Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0018)</small> Note: ASTM 3034.		
33 31 11 00-0174	LF		4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	19.52	7.02
			<i>For SDR 26, Add</i>	1.07	
33 31 11 00-0175	LF		6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	27.29	8.17
			<i>For SDR 26, Add</i>	2.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0176 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe..... <i>For SDR 26, Add</i>	38.15 3.75	9.50
33 31 11 00-0177 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0176) Note: ASTM 3034.		
33 31 11 00-0178 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0179 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	85.91 4.00	26.53
33 31 11 00-0180 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	128.11 7.36	30.84
33 31 11 00-0181 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	270.75 20.37	34.96
33 31 11 00-0182 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	782.09 68.50	41.13
33 31 11 00-0183 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,010.69 88.64	52.43
33 31 11 00-0184 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0185 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	77.34 3.18	26.53
33 31 11 00-0186 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	118.66 6.46	30.84
33 31 11 00-0187 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	246.86 18.07	34.96
33 31 11 00-0188 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	557.10 46.90	41.13
33 31 11 00-0189 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	796.76 68.10	52.43
33 31 11 00-0190 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,711.82 152.49	74.03
33 31 11 00-0191 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,717.17	104.88
33 31 11 00-0192 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,537.09	138.80
33 31 11 00-0193 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	6,186.79	185.07
33 31 11 00-0194 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0195 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	130.09 6.12	39.79
33 31 11 00-0196 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	211.54 13.25	44.11
33 31 11 00-0197 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	238.06 15.45	46.27
33 31 11 00-0198 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	263.08 17.51	48.43
33 31 11 00-0199 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	301.80 20.88	50.59
33 31 11 00-0200 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	582.77 47.51	52.75
33 31 11 00-0201 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	747.88 63.16	53.97
33 31 11 00-0202 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	848.14 72.38	56.55
33 31 11 00-0203 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,255.04 111.10	58.71
33 31 11 00-0204 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,637.39 147.32	61.69
33 31 11 00-0205 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	920.29 77.84	65.70
33 31 11 00-0206 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	977.18 82.95	67.86
33 31 11 00-0207 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,397.24 122.93	70.02
33 31 11 00-0208 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	2,018.42 182.09	73.00
33 31 11 00-0209 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	2,275.02 205.82	78.65
33 31 11 00-0210 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0211 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	123.44 5.48	39.79
33 31 11 00-0212 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	189.38 11.12	44.11
33 31 11 00-0213 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	208.29 12.59	46.27
33 31 11 00-0214 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	253.58	48.43
33 31 11 00-0215 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	290.46	50.59
33 31 11 00-0216 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	447.33	52.75
33 31 11 00-0217 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	683.53	54.39
33 31 11 00-0218 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	697.14	56.55

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 31 11 00-0219	EA	10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,051.74	58.71
	33 31 11 00-0220	EA	10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,164.15	61.69
	33 31 11 00-0221	EA	12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	866.62	65.70
	33 31 11 00-0222	EA	12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	893.83	67.86
	33 31 11 00-0223	EA	12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,282.99	70.02
	33 31 11 00-0224	EA	12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,547.20	73.00
	33 31 11 00-0225	EA	12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,615.20	78.65
	33 31 11 00-0226	EA	15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,990.82	94.59
	33 31 11 00-0227	EA	15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,209.22	100.24
	33 31 11 00-0228	EA	15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,763.66	111.04
33 31 11 00-0229	Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>				
	33 31 11 00-0230	EA	4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	85.16	26.53
			<i>For SDR 26, Add</i>	3.93	
	33 31 11 00-0231	EA	6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	133.17	30.84
			<i>For SDR 26, Add</i>	7.85	
	33 31 11 00-0232	EA	8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	197.47	35.16
			<i>For SDR 26, Add</i>	13.33	
	33 31 11 00-0233	EA	10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	376.75	41.13
			<i>For SDR 26, Add</i>	29.58	
	33 31 11 00-0234	EA	12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	535.18	52.43
			<i>For SDR 26, Add</i>	42.99	
	33 31 11 00-0235	EA	15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,049.83	74.03
			<i>For SDR 26, Add</i>	88.94	
	33 31 11 00-0236	EA	18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,978.24	104.88
	33 31 11 00-0237	EA	21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,304.86	138.80
	33 31 11 00-0238	EA	24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,785.90	185.07
33 31 11 00-0239	Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>				
	33 31 11 00-0240	EA	6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	165.32	28.68
			<i>For SDR 26, Add</i>	11.28	
	33 31 11 00-0241	EA	8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	237.98	30.84
			<i>For SDR 26, Add</i>	17.91	
	33 31 11 00-0242	EA	8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	250.92	33.00
			<i>For SDR 26, Add</i>	18.81	
	33 31 11 00-0243	EA	10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	569.28	35.98
			<i>For SDR 26, Add</i>	48.90	
	33 31 11 00-0244	EA	10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	654.62	38.14
			<i>For SDR 26, Add</i>	56.74	
	33 31 11 00-0245	EA	12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	731.55	41.64
			<i>For SDR 26, Add</i>	63.57	
	33 31 11 00-0246	EA	12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	840.04	43.80
			<i>For SDR 26, Add</i>	73.64	
	33 31 11 00-0247	EA	12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	963.55	46.78
			<i>For SDR 26, Add</i>	85.02	
	33 31 11 00-0248	EA	15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,451.47	63.23
			<i>For SDR 26, Add</i>	129.22	
33 31 11 00-0249	Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>				
	33 31 11 00-0250	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	136.04	
			<i>For SDR 26, Add</i>	8.12	
	33 31 11 00-0251	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	180.10	
			<i>For SDR 26, Add</i>	11.37	
	33 31 11 00-0252	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	184.20	
			<i>For SDR 26, Add</i>	11.76	
	33 31 11 00-0253	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	306.78	
			<i>For SDR 26, Add</i>	22.54	
	33 31 11 00-0254	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	323.97	
			<i>For SDR 26, Add</i>	24.19	
	33 31 11 00-0255	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	619.62	
			<i>For SDR 26, Add</i>	52.57	
	33 31 11 00-0256	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	349.09	
			<i>For SDR 26, Add</i>	25.12	
	33 31 11 00-0257	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	381.31	
			<i>For SDR 26, Add</i>	28.22	
	33 31 11 00-0258	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	858.63	
			<i>For SDR 26, Add</i>	74.04	
	33 31 11 00-0259	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	1,013.75	
			<i>For SDR 26, Add</i>	88.93	
	33 31 11 00-0260	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	399.16	
			<i>For SDR 26, Add</i>	26.47	
	33 31 11 00-0261	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	427.27	
			<i>For SDR 26, Add</i>	29.17	
33 31 11 00-0262	Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>				
	33 31 11 00-0263	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	145.67	
			<i>For SDR 26, Add</i>	9.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0264 EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	180.10	
For SDR 26, Add	11.37	
33 31 11 00-0265 EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	197.30	
For SDR 26, Add	13.02	
33 31 11 00-0266 EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	281.29	
For SDR 26, Add	20.09	
33 31 11 00-0267 EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	321.91	
For SDR 26, Add	23.99	
33 31 11 00-0268 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	491.29	
For SDR 26, Add	40.25	
33 31 11 00-0269 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	347.05	
For SDR 26, Add	24.93	
33 31 11 00-0270 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	379.36	
For SDR 26, Add	28.03	
33 31 11 00-0271 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	571.30	
For SDR 26, Add	46.46	
33 31 11 00-0272 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	696.57	
For SDR 26, Add	58.48	
33 31 11 00-0273 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	397.89	
For SDR 26, Add	26.35	
33 31 11 00-0274 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	417.74	
For SDR 26, Add	28.26	
33 31 11 00-0275 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	701.55	
For SDR 26, Add	55.50	
33 31 11 00-0276 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	777.15	
For SDR 26, Add	62.76	
33 31 11 00-0277 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	1,102.06	
For SDR 26, Add	93.95	
33 31 11 00-0278 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings <small>(33 31 11 00-0018)</small>		
Note: ASTM F949.		
33 31 11 00-0279 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0278)</small>		
33 31 11 00-0280 LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	17.86	7.02
33 31 11 00-0281 LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	26.05	8.17
33 31 11 00-0282 LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	33.57	9.50
33 31 11 00-0283 LF 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	40.63	9.83
33 31 11 00-0284 LF 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	43.14	10.19
33 31 11 00-0285 LF 15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	51.64	10.54
33 31 11 00-0286 LF 18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	67.41	10.93
33 31 11 00-0287 LF 21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	79.20	11.87
33 31 11 00-0288 LF 24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	98.18	12.80
33 31 11 00-0289 LF 30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	141.67	17.23
33 31 11 00-0290 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) <small>(33 31 11 00-0278)</small>		
33 31 11 00-0291 EA 4" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	78.99	
33 31 11 00-0292 EA 6" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	108.75	
33 31 11 00-0293 EA 8" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	152.42	
33 31 11 00-0294 EA 10" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	263.65	
33 31 11 00-0295 EA 12" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	282.34	
33 31 11 00-0296 EA 15" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	475.23	
33 31 11 00-0297 EA 18" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	756.61	
33 31 11 00-0298 EA 21" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	1,083.88	
33 31 11 00-0299 EA 24" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	1,411.05	
33 31 11 00-0300 EA 30" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	1,864.68	
33 31 11 00-0301 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) <small>(33 31 11 00-0278)</small>		
33 31 11 00-0302 EA 4" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	73.26	
33 31 11 00-0303 EA 6" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	100.26	
33 31 11 00-0304 EA 8" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	140.06	
33 31 11 00-0305 EA 10" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	240.43	
33 31 11 00-0306 EA 12" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	258.02	
33 31 11 00-0307 EA 15" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	432.27	
33 31 11 00-0308 EA 18" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	686.58	
33 31 11 00-0309 EA 21" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	979.94	
33 31 11 00-0310 EA 24" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	1,273.35	
33 31 11 00-0311 EA 30" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	1,680.94	
33 31 11 00-0312 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) <small>(33 31 11 00-0278)</small>		
33 31 11 00-0313 EA 4" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	64.66	
33 31 11 00-0314 EA 6" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	82.33	
33 31 11 00-0315 EA 8" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	130.91	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0316	EA		10" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	165.99	
33 31 11 00-0317	EA		12" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	232.23	
33 31 11 00-0318	EA		15" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	386.61	
33 31 11 00-0319	EA		18" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	566.53	
33 31 11 00-0320	EA		21" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	873.57	
33 31 11 00-0321	EA		24" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,180.61	
33 31 11 00-0322	EA		30" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,676.54	
33 31 11 00-0323			Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) ⁽³³⁾		
			<small>^{31 11 00-0278)}</small>		
33 31 11 00-0324	EA		4" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	123.54	
33 31 11 00-0325	EA		6" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	161.69	
33 31 11 00-0326	EA		8" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	294.68	
33 31 11 00-0327	EA		10" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	479.02	
33 31 11 00-0328	EA		12" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	804.62	
33 31 11 00-0329	EA		15" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,151.31	
33 31 11 00-0330	EA		18" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,673.62	
33 31 11 00-0331	EA		21" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,928.50	
33 31 11 00-0332	EA		24" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,183.32	
33 31 11 00-0333	EA		30" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	3,990.96	
33 31 11 00-0334			Tees, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) ⁽³³⁾		
			<small>^{31 11 00-0278)}</small>		
33 31 11 00-0335	EA		4" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	111.80	
33 31 11 00-0336	EA		6" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	145.59	
33 31 11 00-0337	EA		8" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	261.77	
33 31 11 00-0338	EA		10" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	422.77	
33 31 11 00-0339	EA		12" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	705.80	
33 31 11 00-0340	EA		15" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,008.65	
33 31 11 00-0341	EA		18" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,464.75	
33 31 11 00-0342	EA		21" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,686.24	
33 31 11 00-0343	EA		24" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,907.71	
33 31 11 00-0344	EA		30" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	3,473.15	
33 31 11 00-0345			Couplings And Plug Fittings ^(33 31 11)		
33 31 11 00-0346			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)		
			Flexible Pipe Couplings ^(33 31 11 00-0345)		
			Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0347	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	20.89	7.57
33 31 11 00-0348	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	22.86	8.84
33 31 11 00-0349	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	26.37	10.10
33 31 11 00-0350	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	29.81	10.73
33 31 11 00-0351	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	36.25	11.36
33 31 11 00-0352	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	42.72	12.63
33 31 11 00-0353	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	53.94	13.89
33 31 11 00-0354	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	66.24	14.51
33 31 11 00-0355	EA		12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	108.06	15.14
33 31 11 00-0356	EA		15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	146.40	16.41
33 31 11 00-0357	EA		18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	280.14	17.04
33 31 11 00-0358	EA		21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	325.19	17.99
33 31 11 00-0359	EA		24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	360.10	18.94
33 31 11 00-0360	EA		27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	431.11	20.20
33 31 11 00-0361			Manhole Inside Bowl Drop ^(33 31 11)		
33 31 11 00-0362	EA		Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4DB).....	341.34	
33 31 11 00-0363	EA		Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96).....	357.70	
33 31 11 00-0364	EA		Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB).....	366.74	
33 31 11 00-0365	EA		Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96).....	379.20	
33 31 11 00-0366	EA		Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB).....	394.04	
33 31 11 00-0367	EA		Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84).....	422.33	
33 31 11 00-0368	EA		Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB).....	439.77	
33 31 11 00-0369	EA		Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96).....	453.92	
33 31 11 00-0370	EA		Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60).....	780.45	
33 31 11 00-0371	EA		Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96).....	801.67	
33 32 Sanitary Sewerage Equipment ^(33 30)					
33 32 16 Packaged Wastewater Grinder Pump Assemblies ^(33 32)					
33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller ^(33 32 16)					
33 32 16 00-0002	EA		2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,227.61	371.30
			Note: Zoeller 840 series.		
33 32 16 00-0003	EA		2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,196.91	371.30
			Note: Zoeller 840 series.		



Utilities	33	CS
Sanitary Sewerage Utilities	33 30	
Sanitary Sewerage Equipment	33 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0004 EA Simplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,044.57	123.73
33 32 16 00-0005 EA Duplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,615.06	123.73
33 32 16 00-0006 EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	13,355.05	
33 32 16 00-0007 Submersible Grinder Pumps (33 32 16) Note: Includes 50' of cord with pumps unless otherwise noted.		
33 32 16 00-0008 EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,904.76	747.30
33 32 16 00-0009 EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,805.66	871.85
33 32 16 00-0010 EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	7,116.22	1,120.96

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)

Note: Includes external coating.

33 34 13 13-0002 EA 1,000 Gallon Precast Septic Tank	4,175.03	747.30
For Non-Traffic Rated, Deduct	-814.32	
33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank	5,023.11	824.90
For Non-Traffic Rated, Deduct	-1,002.59	
33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank	5,838.27	902.37
For Non-Traffic Rated, Deduct	-1,182.60	
33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank	7,507.64	980.84
For Non-Traffic Rated, Deduct	-1,576.72	
33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank	8,931.63	1,354.49
For Non-Traffic Rated, Deduct	-1,818.60	
33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank	23,881.87	1,868.26
For Non-Traffic Rated, Deduct	-5,397.53	
33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank	43,472.44	2,802.39
For Non-Traffic Rated, Deduct	-10,011.16	
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank	48,685.61	3,923.35
For Non-Traffic Rated, Deduct	-10,977.79	
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank	59,705.92	4,694.07
For Non-Traffic Rated, Deduct	-13,494.15	
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank	70,530.90	5,815.02
For Non-Traffic Rated, Deduct	-15,842.31	

33 34 13 23 Fiberglass Septic Tank (33 34 13)

33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)

33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank	5,014.14	560.48
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank	5,888.94	747.30
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank	6,811.69	677.31
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank	11,460.98	733.23
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank	14,371.85	1,016.33
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank	22,827.03	1,401.19
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank	33,875.01	2,101.80
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank	46,502.95	2,942.51
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank	57,077.64	3,516.94

33 34 13 33 Polyethylene Septic Tank (33 34 13)

33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)

33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,317.27	227.77
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,035.14	256.24
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,832.83	313.19
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,907.56	341.66
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,371.22	370.13
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	4,048.42	398.61
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,854.68	284.72
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,110.92	341.66
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,661.01	370.13
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	4,302.61	398.61

33 34 51 Drainage Field System (33 34)

33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)

Note: Includes external coating.

33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	960.25	109.60
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,350.32	155.69
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	1,798.69	186.83
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	2,928.21	311.37
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	4,273.50	435.93

33	33 Utilities
	33 30 Sanitary Sewerage Utilities
	33 34 Onsite Wastewater Disposal



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 34 53 Distribution Chambers (33 34)

33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)

33 34 53 13-0001	Concrete Distribution Boxes (33 34 53 13) Note: Includes internal and external coating.		
33 34 53 13-0002	EA 3 Outlet Concrete Distribution Box.....	364.98	79.54
33 34 53 13-0003	EA 5 Outlet Concrete Distribution Box.....	424.75	95.45
33 34 53 13-0004	EA 8 Outlet Concrete Distribution Box.....	743.82	111.36
33 34 53 13-0005	EA 12 Outlet Concrete Distribution Box.....	1,469.77	190.89
33 34 53 13-0006	Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007	EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,121.02	95.26
33 34 53 13-0008	EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,370.98	129.89

33 34 56 Drainage Field Dosing Chambers (33 34)

33 34 56 00-0001	Dosing Siphon (33 34 56)		
33 34 56 00-0002	EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	5,980.78	
33 34 56 00-0003	EA Solar Power Control For Dosing Siphon.....	4,106.97	
33 34 56 00-0004	EA Electrical Power Control For Dosing Siphon.....	3,946.37	

33 40 Stormwater Utilities (33)

33 41 Subdrainage (33 40)

33 41 16 Subdrainage Piping (33 41)

33 41 16 13 Subdrainage Piping (33 41 16)

See CSI section 33 42 11 00-0239 for polyethylene drain pipe.

33 41 16 13-0001	Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002	Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001) Note: Excludes couplings and gaskets.		
33 41 16 13-0003	Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004	LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.34	5.04
	For <100, Add	1.07	
	For >1,000, Deduct	-0.57	
33 41 16 13-0005	LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	8.29	5.40
	For <100, Add	1.22	
	For >1,000, Deduct	-0.68	
33 41 16 13-0006	LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.78	5.67
	For <100, Add	1.39	
	For >1,000, Deduct	-0.82	
33 41 16 13-0007	LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.30	5.85
	For <100, Add	1.64	
	For >1,000, Deduct	-1.06	
33 41 16 13-0008	LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.17	6.39
	For <100, Add	1.87	
	For >1,000, Deduct	-1.23	
33 41 16 13-0009	LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	24.35	7.20
	For <100, Add	2.30	
	For >1,000, Deduct	-1.58	
33 41 16 13-0010	LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	38.76	11.90
	For <100, Add	3.72	
	For >1,000, Deduct	-2.53	
33 41 16 13-0011	LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	55.00	13.07
	For <100, Add	4.71	
	For >1,000, Deduct	-3.40	
33 41 16 13-0012	Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0013	LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.15	5.04
	For <100, Add	1.06	
	For >1,000, Deduct	-0.56	
33 41 16 13-0014	LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	8.21	5.40
	For <100, Add	1.22	
	For >1,000, Deduct	-0.68	
33 41 16 13-0015	LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.30	5.67
	For <100, Add	1.57	
	For >1,000, Deduct	-1.00	
33 41 16 13-0016	LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	17.14	5.85
	For <100, Add	1.73	
	For >1,000, Deduct	-1.15	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For <100, Add</i> <i>For >1,000, Deduct</i>	20.19 1.97 -1.33	6.39
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For <100, Add</i> <i>For >1,000, Deduct</i>	24.14 2.29 -1.57	7.20
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For <100, Add</i> <i>For >1,000, Deduct</i>	37.42 3.66 -2.47	11.90
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For <100, Add</i> <i>For >1,000, Deduct</i>	52.89 4.61 -3.30	13.07
33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 41 16 13-0001)</small> Note: Excludes couplings and gaskets.		
33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	47.93	24.69
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	57.20	28.80
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	97.37	34.98
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	125.67	43.20
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	191.45	51.44
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	432.88	67.21
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	513.72	90.52
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	998.30	102.87
33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	49.55	24.69
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	62.51	28.80
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	152.97	34.98
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	32.49	16.46
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	34.20	16.46
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	45.01	19.21
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	68.89	23.32
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	91.51	28.80
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 <small>(33 41 16 13)</small> Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	9.02	4.23
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	1.09 -0.66	
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	9.89	4.57
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	1.18 -0.72	
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	14.64	5.48
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	1.55 -1.01	
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	23.96	6.85
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	2.23 -1.54	
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	41.34	7.12
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	3.14 -2.42	
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	53.60	7.78
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	3.85 -3.07	
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	75.21	8.77
<i>For <100, Add</i> <i>For >1,000, Deduct</i>	5.08 -4.20	
33 41 16 13-0050 Perforated Non-Reinforced Concrete Drainage Piping, C444 <small>(33 41 16 13)</small>		
33 41 16 13-0051 LF 6" Perforated Non-Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	35.36 2.02 -1.77	12.73
33 41 16 13-0052 LF 8" Perforated Non-Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	41.39 2.49 -2.07	14.15
33 41 16 13-0053 LF 10" Perforated Non-Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	46.87 2.89 -2.34	15.57



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16	13-0054	LF	12" Perforated Non-Reinforced Concrete Drainage Pipe..... <i>For Extra Strength, Add</i> <i>For >1,000, Deduct</i>	55.13 3.63 -2.76	16.98
33 41 16	13-0055		Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small> <i>Note: Bell and spigot or tongue and groove. With seals and gaskets.</i>		
33 41 16	13-0056	LF	6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	29.11 -1.46	12.73
33 41 16	13-0057	LF	8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	32.22 -1.61	14.15
33 41 16	13-0058	LF	10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	35.54 -1.78	15.57
33 41 16	13-0059	LF	12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	40.64 -2.03	16.17
33 41 16	13-0060	LF	15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	47.28 -2.36	18.19
33 41 16	13-0061	LF	18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	58.50 -2.93	23.25
33 41 16	13-0062	LF	21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	73.05 -3.65	29.82
33 41 16	13-0063	LF	24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	89.07 -4.45	36.39
33 41 16	13-0064		Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
33 41 16	13-0065	LF	6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	27.05 -1.35	12.73
33 41 16	13-0066	LF	8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	34.50 -1.73	14.15
33 41 16	13-0067	LF	10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	43.81 -2.19	15.57
33 41 16	13-0068	LF	12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	53.30 -2.67	16.98
33 41 16	13-0069	LF	15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	61.08 -3.05	18.89
33 41 16	13-0070	LF	18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	79.23 -3.96	23.56
33 41 16	13-0071		Perforated Vitrified Clay Drainage Piping, C700 <small>(33 41 16 13)</small>		
33 41 16	13-0072	LF	4" Perforated Vitrified Clay Drainage Pipe	26.59	14.15
33 41 16	13-0073	LF	6" Perforated Vitrified Clay Drainage Pipe	31.78	15.92
33 41 16	13-0074	LF	8" Perforated Vitrified Clay Drainage Pipe	36.29	15.92
33 41 16	13-0075	LF	10" Perforated Vitrified Clay Drainage Pipe	48.68	19.45
33 41 16	13-0076	LF	12" Perforated Vitrified Clay Drainage Pipe	57.91	21.22
33 41 16	13-0077		Geotextile Filter Fabric Sock <small>(33 41 16 13)</small>		
33 41 16	13-0078	LF	3" Geotextile Filter Fabric Sock.....	0.84	
33 41 16	13-0079	LF	4" Geotextile Filter Fabric Sock.....	1.10	
33 41 16	13-0080	LF	6" Geotextile Filter Fabric Sock.....	1.68	
33 41 16	13-0081	LF	8" Geotextile Filter Fabric Sock.....	2.26	
33 41 16	13-0082	LF	10" Geotextile Filter Fabric Sock.....	3.37	
33 41 16	13-0083	LF	12" Geotextile Filter Fabric Sock.....	4.66	
33 41 16	13-0084	LF	15" Geotextile Filter Fabric Sock.....	5.61	
33 41 16	13-0085		Strip-Perforated, Galvanized, Corrugated Steel Pipe <small>(33 41 16 13)</small> <i>Note: Perforations are located in the bottom quarter points of the pipe.</i>		
33 41 16	13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	25.02 1.29	6.07
33 41 16	13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	31.70 1.70	7.35
33 41 16	13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	39.96 2.13	9.33
33 41 16	13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	44.33 2.23	11.03
33 41 16	13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	50.83 2.80	11.41
33 41 16	13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	57.48 3.38	11.84
33 41 16	13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	65.77 4.02	12.77
33 41 16	13-0093		Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <small>(33 41 16 13)</small> <i>Note: Perforations are located in the bottom quarter points of the pipe.</i>		
33 41 16	13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	27.09 1.50	6.07



	Utilities	33	
	Stormwater Utilities	33 40	33
	Subdrainage	33 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	34.51 1.98	7.35
	33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	43.39 2.47	9.33
	33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	47.66 2.56	11.03
	33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	54.95 3.21	11.41
	33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	62.37 3.87	11.84
	33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	71.47 4.59	12.77
	33 41 16 13-0101		Strip-Perforated, Corrugated Aluminum Pipe <small>(33 41 16 13)</small> Note: Perforations are located in the bottom quarter points of the pipe.		
	33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	27.76 1.56	6.07
	33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	35.37 2.07	7.35
	33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	44.49 2.58	9.33
	33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	55.89 3.38	11.03
	33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	65.19 4.24	11.41
	33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	74.79 5.11	11.84
	33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	85.95 6.04	12.77
	33 41 16 13-0109		Prefabricated Composite Drains <small>(33 41 16 13)</small>		
	33 41 16 13-0110		Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) <small>(33 41 16 13-0109)</small> Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
	33 41 16 13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	11.38 2.11	2.34
	33 41 16 13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	51.81	
	33 41 16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	51.81	
	33 41 16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	100.66	
	33 41 16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	100.66	
	33 41 16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	18.24 3.16	2.92
	33 41 16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	76.89	
	33 41 16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	76.89	
	33 41 16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	132.36	
	33 41 16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	132.36	
	33 41 19		Underslab Drainage <small>(33 41)</small>		
	33 41 19 13		Underslab Drainage Piping <small>(33 41 19)</small>		
	33 41 19 13-0001		Capillary Water Barrier Underslab Drainage <small>(33 41 19 13)</small> Note: Consists of a layer of fine granular material overlying a coarse layer.		
	33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	61.50	
	33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	58.80	
	33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	57.72	
	33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	56.10	
	33 42		Stormwater Conveyance <small>(33 40)</small> Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
	33 42 11		Stormwater Gravity Piping <small>(33 42)</small>		
	33 42 11 00-0001		Reinforced Concrete Piping <small>(33 42 11)</small>		
	33 42 11 00-0002		Class 3 Reinforced Concrete Pipe Without Gaskets <small>(33 42 11 00-0001)</small>		
	33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For Class 4, Add</i> <i>For Class 5, Add</i> <i>For >1,000, Deduct</i>	53.09 2.74 5.77 -2.65	16.98
	33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For Class 4, Add</i> <i>For Class 5, Add</i> <i>For >1,000, Deduct</i>	63.90 3.51 7.38 -3.20	18.89
	33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For Class 4, Add</i> <i>For Class 5, Add</i> <i>For >1,000, Deduct</i>	72.49 3.69 7.77 -3.62	23.56

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0006	LF		21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	92.93	29.71
			<i>For Class 4, Add</i>	4.79	
			<i>For Class 5, Add</i>	10.09	
			<i>For >1,000, Deduct</i>	-4.65	
33 42 11 00-0007	LF		24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	108.65	36.08
			<i>For Class 4, Add</i>	5.42	
			<i>For Class 5, Add</i>	11.42	
			<i>For >1,000, Deduct</i>	-5.43	
33 42 11 00-0008	LF		27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	137.96	46.13
			<i>For Class 4, Add</i>	6.85	
			<i>For Class 5, Add</i>	14.41	
			<i>For >1,000, Deduct</i>	-6.90	
33 42 11 00-0009	LF		30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	146.80	47.63
			<i>For Class 4, Add</i>	7.41	
			<i>For Class 5, Add</i>	15.59	
			<i>For >1,000, Deduct</i>	-7.34	
33 42 11 00-0010	LF		36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	182.24	54.13
			<i>For Class 4, Add</i>	10.04	
			<i>For Class 5, Add</i>	21.14	
			<i>For >1,000, Deduct</i>	-9.11	
33 42 11 00-0011	LF		42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	237.18	59.53
			<i>For Class 4, Add</i>	14.53	
			<i>For Class 5, Add</i>	30.59	
			<i>For >1,000, Deduct</i>	-11.86	
33 42 11 00-0012	LF		48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	284.45	66.30
			<i>For Class 4, Add</i>	18.03	
			<i>For Class 5, Add</i>	37.95	
			<i>For >1,000, Deduct</i>	-14.22	
33 42 11 00-0013	LF		54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	354.60	75.77
			<i>For Class 4, Add</i>	23.40	
			<i>For Class 5, Add</i>	49.27	
			<i>For >1,000, Deduct</i>	-17.73	
33 42 11 00-0014	LF		60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	428.56	87.89
			<i>For Class 4, Add</i>	28.78	
			<i>For Class 5, Add</i>	60.60	
			<i>For >1,000, Deduct</i>	-21.43	
33 42 11 00-0015	LF		66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	664.19	97.42
			<i>For Class 4, Add</i>	49.94	
			<i>For Class 5, Add</i>	105.13	
			<i>For >1,000, Deduct</i>	-33.21	
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	775.56	106.08
			<i>For Class 4, Add</i>	59.28	
			<i>For Class 5, Add</i>	124.80	
			<i>For >1,000, Deduct</i>	-38.78	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	933.41	119.07
			<i>For Class 4, Add</i>	72.48	
			<i>For Class 5, Add</i>	152.59	
			<i>For >1,000, Deduct</i>	-46.67	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,204.36	132.60
			<i>For Class 4, Add</i>	96.42	
			<i>For Class 5, Add</i>	202.99	
			<i>For >1,000, Deduct</i>	-60.22	
33 42 11 00-0019	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	128.78	31.33
			<i>For Class 4, Add</i>	7.98	
			<i>For Class 5, Add</i>	16.80	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	8.40	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	18.48	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	40.32	
			<i>For >1,000, Deduct</i>	-6.44	
33 42 11 00-0020	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	178.48	47.99
			<i>For Class 4, Add</i>	10.44	
			<i>For Class 5, Add</i>	21.98	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	10.99	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	24.18	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	52.76	
			<i>For >1,000, Deduct</i>	-8.92	
33 42 11 00-0021	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	210.52	61.34
			<i>For Class 4, Add</i>	11.67	
			<i>For Class 5, Add</i>	24.58	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	12.29	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	27.03	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	58.98	
			<i>For >1,000, Deduct</i>	-10.53	
33 42 11 00-0022	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	223.56	64.10
			<i>For Class 4, Add</i>	12.54	
			<i>For Class 5, Add</i>	26.40	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	13.20	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	29.04	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	63.36	
			<i>For >1,000, Deduct</i>	-11.18	
33 42 11 00-0023	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	257.17	67.68
			<i>For Class 4, Add</i>	15.25	
			<i>For Class 5, Add</i>	32.10	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	16.05	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	35.31	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	77.04	
			<i>For >1,000, Deduct</i>	-12.86	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0024	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	290.79	71.25
			For Class 4, Add	17.96	
			For Class 5, Add	37.80	
			For Horizontal Elliptical - II (HE- II), Add	18.90	
			For Horizontal Elliptical - III (HE- III), Add	41.58	
			For Horizontal Elliptical - IV (HE- IV), Add	90.72	
			For >1,000, Deduct	-14.54	
33 42 11 00-0025	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	355.15	78.40
			For Class 4, Add	23.10	
			For Class 5, Add	48.63	
			For Horizontal Elliptical - II (HE- II), Add	24.32	
			For Horizontal Elliptical - III (HE- III), Add	53.49	
			For Horizontal Elliptical - IV (HE- IV), Add	116.71	
			For >1,000, Deduct	-17.76	
33 42 11 00-0026	LF		38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	428.49	88.17
			For Class 4, Add	28.74	
			For Class 5, Add	60.50	
			For Horizontal Elliptical - II (HE- II), Add	30.25	
			For Horizontal Elliptical - III (HE- III), Add	66.55	
			For Horizontal Elliptical - IV (HE- IV), Add	145.20	
			For >1,000, Deduct	-21.42	
33 42 11 00-0027	LF		43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	487.73	100.78
			For Class 4, Add	32.66	
			For Class 5, Add	68.75	
			For Horizontal Elliptical - II (HE- II), Add	34.38	
			For Horizontal Elliptical - III (HE- III), Add	75.63	
			For Horizontal Elliptical - IV (HE- IV), Add	165.00	
			For >1,000, Deduct	-24.39	
33 42 11 00-0028	LF		48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	604.73	116.90
			For Class 4, Add	41.58	
			For Class 5, Add	87.55	
			For Horizontal Elliptical - II (HE- II), Add	43.77	
			For Horizontal Elliptical - III (HE- III), Add	96.30	
			For Horizontal Elliptical - IV (HE- IV), Add	210.11	
			For >1,000, Deduct	-30.24	
33 42 11 00-0029	LF		53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	690.63	128.81
			For Class 4, Add	48.13	
			For Class 5, Add	101.32	
			For >1,000, Deduct	-34.53	
33 42 11 00-0030	LF		58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	838.91	140.72
			For Class 4, Add	60.55	
			For Class 5, Add	127.47	
			For >1,000, Deduct	-41.95	
33 42 11 00-0031	LF		63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	1,003.02	159.12
			For Class 4, Add	73.75	
			For Class 5, Add	155.25	
			For >1,000, Deduct	-50.15	
33 42 11 00-0032	LF		68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,085.40	176.43
			For Class 4, Add	79.18	
			For Class 5, Add	166.69	
			For >1,000, Deduct	-54.27	
33 42 11 00-0033	LF		72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,393.81	185.10
			For Class 4, Add	107.28	
			For Class 5, Add	225.85	
			For >1,000, Deduct	-69.69	
33 42 11 00-0034	LF		77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,617.21	193.76
			For Class 4, Add	127.31	
			For Class 5, Add	268.02	
			For >1,000, Deduct	-80.86	
33 42 11 00-0035			Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036	EA		12" Concrete Reducing Wye Without Gaskets	661.89	64.69
33 42 11 00-0037	EA		15" Concrete Reducing Wye Without Gaskets	793.60	78.83
33 42 11 00-0038	EA		18" Concrete Reducing Wye Without Gaskets	981.81	86.93
33 42 11 00-0039	EA		21" Concrete Reducing Wye Without Gaskets	1,125.93	107.14
33 42 11 00-0040	EA		24" Concrete Reducing Wye Without Gaskets	1,271.61	129.37
33 42 11 00-0041			Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042	EA		12" Diameter Concrete Pipe Joint Gasket	6.39	
33 42 11 00-0043	EA		15" Diameter Concrete Pipe Joint Gasket	7.56	
33 42 11 00-0044	EA		18" Diameter Concrete Pipe Joint Gasket	8.76	
33 42 11 00-0045	EA		21" Diameter Concrete Pipe Joint Gasket	10.59	
33 42 11 00-0046	EA		24" Diameter Concrete Pipe Joint Gasket	12.41	
33 42 11 00-0047	EA		27" Diameter Concrete Pipe Joint Gasket	13.83	
33 42 11 00-0048	EA		30" Diameter Concrete Pipe Joint Gasket	15.19	
33 42 11 00-0049	EA		36" Diameter Concrete Pipe Joint Gasket	18.56	
33 42 11 00-0050	EA		42" Diameter Concrete Pipe Joint Gasket	21.52	
33 42 11 00-0051	EA		48" Diameter Concrete Pipe Joint Gasket	24.82	
33 42 11 00-0052	EA		54" Diameter Concrete Pipe Joint Gasket	30.42	
33 42 11 00-0053	EA		60" Diameter Concrete Pipe Joint Gasket	45.03	
33 42 11 00-0054	EA		66" Diameter Concrete Pipe Joint Gasket	46.80	
33 42 11 00-0055	EA		72" Diameter Concrete Pipe Joint Gasket	48.53	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0056	EA	78" Diameter Concrete Pipe Joint Gasket	55.89	
33 42 11 00-0057	EA	84" Diameter Concrete Pipe Joint Gasket	67.00	

33 42 11 00-0058**Couplings** (33 42 11 00-0001)**33 42 11 00-0059****Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)****Flexible Pipe Couplings** (33 42 11 00-0058)

Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.

33 42 11 00-0060	EA	4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	36.93	
33 42 11 00-0061	EA	4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	34.56	
33 42 11 00-0062	EA	6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	55.69	
33 42 11 00-0063	EA	6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	57.58	
33 42 11 00-0064	EA	6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	53.95	
33 42 11 00-0065	EA	8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	79.46	
33 42 11 00-0066	EA	8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	69.58	
33 42 11 00-0067	EA	10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	98.71	
33 42 11 00-0068	EA	10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	88.28	
33 42 11 00-0069	EA	12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	118.24	
33 42 11 00-0070	EA	12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	100.18	
33 42 11 00-0071	EA	15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	295.81	

33 42 11 00-0072**Precast Concrete Cut Off Wall** (33 42 11 00-0001)

33 42 11 00-0073	EA	12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	272.93	190.51
33 42 11 00-0074	EA	15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	336.68	235.97
33 42 11 00-0075	EA	18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	417.76	298.75
33 42 11 00-0076	EA	21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	494.51	357.20
33 42 11 00-0077	EA	24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	568.98	413.38
33 42 11 00-0078	EA	27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	702.13	528.23
33 42 11 00-0079	EA	30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	919.76	727.40
33 42 11 00-0080	EA	36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,147.03	917.91
33 42 11 00-0081	EA	42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,417.05	1,151.50
33 42 11 00-0082	EA	48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,586.31	1,297.85
33 42 11 00-0083	EA	54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,771.28	1,454.80
33 42 11 00-0084	EA	60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,958.94	1,616.08
33 42 11 00-0085	EA	66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,035.47	1,677.78
33 42 11 00-0086	EA	72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,102.79	1,731.91
33 42 11 00-0087	EA	78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,170.09	1,786.02
33 42 11 00-0088	EA	84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,239.05	1,840.15

33 42 11 00-0089**Strap Assembly** (33 42 11 00-0001)

Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.

33 42 11 00-0090	EA	Up To 24" Diameter Pipe, 12' Strap Assembly	249.83	
33 42 11 00-0091	EA	>24" Diameter Pipe, 12' Strap Assembly	353.11	

33 42 11 00-0092**Prestressed Concrete Cylinder Piping** (33 42 11)**33 42 11 00-0093****150 PSI Prestressed Concrete Cylinder Pipe And Fittings** (33 42 11 00-0092)**33 42 11 00-0094****150 PSI Prestressed Concrete Cylinder Pipe With Gaskets** (33 42 11 00-0093)

Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".

33 42 11 00-0095	LF	12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	148.46	16.98
		For 100 PSI, Deduct	-31.05	
		For >1,000, Deduct	-7.42	
33 42 11 00-0096	LF	15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	158.37	18.89
		For 100 PSI, Deduct	-32.85	
		For >1,000, Deduct	-7.92	
33 42 11 00-0097	LF	18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	172.24	23.56
		For 100 PSI, Deduct	-34.65	
		For >1,000, Deduct	-8.61	
33 42 11 00-0098	LF	21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	188.24	29.71
		For 100 PSI, Deduct	-36.45	
		For >1,000, Deduct	-9.41	
33 42 11 00-0099	LF	24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	204.52	36.08
		For 100 PSI, Deduct	-38.24	
		For >1,000, Deduct	-10.23	
33 42 11 00-0100	LF	30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	240.12	47.63
		For 100 PSI, Deduct	-42.82	
		For >1,000, Deduct	-12.01	
33 42 11 00-0101	LF	36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	266.09	54.13
		For 100 PSI, Deduct	-47.39	
		For >1,000, Deduct	-13.30	
33 42 11 00-0102	LF	42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	309.08	59.53
		For 100 PSI, Deduct	-56.22	
		For >1,000, Deduct	-15.45	
33 42 11 00-0103	LF	48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	354.88	66.30
		For 100 PSI, Deduct	-65.04	
		For >1,000, Deduct	-17.74	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0104 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	470.37	85.82
For 100 PSI, Deduct	-86.94	
For >1,000, Deduct	-23.52	
33 42 11 00-0105 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	567.13	99.56
For 100 PSI, Deduct	-106.23	
For >1,000, Deduct	-28.36	
33 42 11 00-0106 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	637.40	110.34
For 100 PSI, Deduct	-120.12	
For >1,000, Deduct	-31.87	
33 42 11 00-0107 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	710.95	120.15
For 100 PSI, Deduct	-134.83	
For >1,000, Deduct	-35.55	
33 42 11 00-0108 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	807.58	134.86
For 100 PSI, Deduct	-153.62	
For >1,000, Deduct	-40.38	
33 42 11 00-0109 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	904.21	150.19
For 100 PSI, Deduct	-172.41	
For >1,000, Deduct	-45.21	
33 42 11 00-0110 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,117.49	175.33
For 100 PSI, Deduct	-216.54	
For >1,000, Deduct	-55.87	
33 42 11 00-0111 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,315.61	200.21
For 100 PSI, Deduct	-257.40	
For >1,000, Deduct	-65.78	
33 42 11 00-0112 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,534.93	216.46
For 100 PSI, Deduct	-306.42	
For >1,000, Deduct	-76.75	
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,733.85	229.88
For 100 PSI, Deduct	-351.37	
For >1,000, Deduct	-86.69	
33 42 11 00-0114 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,096.18	243.28
For 100 PSI, Deduct	-437.16	
For >1,000, Deduct	-104.81	
33 42 11 00-0115 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,440.57	255.55
For 100 PSI, Deduct	-518.88	
For >1,000, Deduct	-122.03	
33 42 11 00-0116 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,660.73	267.82
For 100 PSI, Deduct	-569.54	
For >1,000, Deduct	-133.04	
33 42 11 00-0117 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,884.19	280.09
For 100 PSI, Deduct	-621.02	
For >1,000, Deduct	-144.21	
33 42 11 00-0118 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,106.01	292.36
For 100 PSI, Deduct	-672.09	
For >1,000, Deduct	-155.30	
33 42 11 00-0119 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,327.81	304.63
For 100 PSI, Deduct	-723.16	
For >1,000, Deduct	-166.39	
33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0121 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	485.08	159.19
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	670.56	227.42
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	861.39	303.22
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,052.22	379.04
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,276.40	471.01
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,636.13	631.72
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,038.07	757.71
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,373.37	884.36
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,670.99	1,009.91
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,284.46	1,261.04
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,307.17	1,716.47
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,800.03	1,900.38
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,292.90	2,084.29
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,396.14	2,390.80
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,492.62	2,697.32
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,879.84	3,065.13
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,260.31	3,432.94
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,704.12	4,351.97
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	17,092.64	5,222.35
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,201.32	6,963.15
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,227.61	8,703.93
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	30,757.97	9,387.81
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	34,292.97	10,071.69
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	44,921.45	10,755.56
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	41,435.73	11,439.45
33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	451.74	159.19
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	627.42	227.42
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	810.40	303.22

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-0150	EA	21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	993.39	379.04
33 42 11 00-0151	EA	24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,209.72	471.01
33 42 11 00-0152	EA	30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,544.61	589.27
33 42 11 00-0153	EA	36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,933.48	757.71
33 42 11 00-0154	EA	42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,252.44	884.36
33 42 11 00-0155	EA	48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,540.91	1,009.91
33 42 11 00-0156	EA	54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,099.51	1,261.04
33 42 11 00-0157	EA	60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,131.09	1,716.47
33 42 11 00-0158	EA	66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,611.20	1,900.38
33 42 11 00-0159	EA	72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,091.31	2,084.29
33 42 11 00-0160	EA	78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,925.58	2,390.80
33 42 11 00-0161	EA	84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,753.09	2,697.32
33 42 11 00-0162	EA	90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,946.56	3,065.13
33 42 11 00-0163	EA	96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,133.27	3,432.94
33 42 11 00-0164	EA	102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,922.34	4,291.18
33 42 11 00-0165	EA	108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,899.27	5,222.35
33 42 11 00-0166	EA	114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,474.30	6,963.15
33 42 11 00-0167	EA	120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,966.95	8,703.93
33 42 11 00-0168	EA	126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,779.39	9,387.81
33 42 11 00-0169	EA	132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,596.46	11,439.45
33 42 11 00-0170	EA	138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	32,424.38	10,755.56
33 42 11 00-0171	EA	144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	35,588.49	11,439.45

33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)**33 42 11 00-0173 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0172)**

Note: AWWA C301

33 42 11 00-0174	LF	30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	283.11	47.63
		<i>For >1,000, Deduct</i>	<i>-14.16</i>	
33 42 11 00-0175	LF	36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	345.48	54.13
		<i>For >1,000, Deduct</i>	<i>-17.27</i>	
33 42 11 00-0176	LF	42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	403.33	59.53
		<i>For >1,000, Deduct</i>	<i>-20.17</i>	

33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0172)

Note: AWWA C301

33 42 11 00-0178	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	544.19	66.24
		<i>For >1,000, Deduct</i>	<i>-27.21</i>	
33 42 11 00-0179	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	652.07	85.82
		<i>For >1,000, Deduct</i>	<i>-32.60</i>	
33 42 11 00-0180	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	751.69	99.56
		<i>For >1,000, Deduct</i>	<i>-37.58</i>	
33 42 11 00-0181	LF	66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	846.38	110.34
		<i>For >1,000, Deduct</i>	<i>-42.32</i>	
33 42 11 00-0182	LF	72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	1,025.91	120.15
		<i>For >1,000, Deduct</i>	<i>-51.30</i>	

33 42 11 00-0183 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0172)

Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.

33 42 11 00-0184	EA	30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,621.68	
33 42 11 00-0185	EA	36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,815.88	
33 42 11 00-0186	EA	42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,912.98	
33 42 11 00-0187	EA	48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,301.38	
33 42 11 00-0188	EA	54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,398.48	
33 42 11 00-0189	EA	60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,592.68	
33 42 11 00-0190	EA	66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,689.78	
33 42 11 00-0191	EA	72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,786.88	
33 42 11 00-0192	EA	30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,854.97	
33 42 11 00-0193	EA	36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,854.97	
33 42 11 00-0194	EA	42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,534.67	
33 42 11 00-0195	EA	48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,534.67	
33 42 11 00-0196	EA	54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,923.06	
33 42 11 00-0197	EA	60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,923.06	
33 42 11 00-0198	EA	66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	6,408.56	
33 42 11 00-0199	EA	72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	6,408.56	

33 42 11 00-0200 Quick Test Joints (33 42 11 00-0172)

33 42 11 00-0201	EA	30" Quick Test Joint.....	617.79	
33 42 11 00-0202	EA	36" Quick Test Joint.....	623.21	
33 42 11 00-0203	EA	42" Quick Test Joint.....	628.62	
33 42 11 00-0204	EA	48" Quick Test Joint.....	641.35	
33 42 11 00-0205	EA	54" Quick Test Joint.....	670.86	
33 42 11 00-0206	EA	60" Quick Test Joint.....	695.30	
33 42 11 00-0207	EA	66" Quick Test Joint.....	731.94	
33 42 11 00-0208	EA	72" Quick Test Joint.....	768.57	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0209	Harnessed Joints (33 42 11 00-0172)	
33 42 11 00-0210	Harness Clamp Restrained Joints (33 42 11 00-0209)	
33 42 11 00-0211	EA 30" Harness Clamp Restrained Joint.....	4,815.06
33 42 11 00-0212	EA 36" Harness Clamp Restrained Joint.....	5,002.34
33 42 11 00-0213	EA 42" Harness Clamp Restrained Joint.....	5,189.62
33 42 11 00-0214	EA 48" Harness Clamp Restrained Joint.....	5,376.90
33 42 11 00-0215	EA 54" Harness Clamp Restrained Joint.....	5,578.52
33 42 11 00-0216	EA 60" Harness Clamp Restrained Joint.....	5,863.58
33 42 11 00-0217	EA 66" Harness Clamp Restrained Joint.....	6,057.72
33 42 11 00-0218	EA 72" Harness Clamp Restrained Joint.....	6,488.26
33 42 11 00-0219	Snap Ring Restrained Joints (33 42 11 00-0209)	
33 42 11 00-0220	EA 30" Snap Ring Restrained Joint.....	814.05
33 42 11 00-0221	EA 36" Snap Ring Restrained Joint.....	928.59
33 42 11 00-0222	EA 42" Snap Ring Restrained Joint.....	1,243.16
33 42 11 00-0223	EA 48" Snap Ring Restrained Joint.....	1,412.26
33 42 11 00-0224	EA 54" Snap Ring Restrained Joint.....	1,595.70
33 42 11 00-0225	EA 60" Snap Ring Restrained Joint.....	1,808.01
33 42 11 00-0226	EA 66" Snap Ring Restrained Joint.....	2,002.14
33 42 11 00-0227	EA 72" Snap Ring Restrained Joint.....	2,232.64
33 42 11 00-0228	Pipe Repairs (33 42 11 00-0172) Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD sleeve, 20' pipe.	
33 42 11 00-0229	Lined Cylinder Pipe Repair (33 42 11 00-0228)	
33 42 11 00-0230	EA 30" Lined Cylinder Pipe Repair.....	6,046.68
33 42 11 00-0231	EA 36" Lined Cylinder Pipe Repair.....	7,485.62
33 42 11 00-0232	EA 42" Lined Cylinder Pipe Repair.....	10,799.32
33 42 11 00-0233	Embedded Cylinder Pipe Repair (33 42 11 00-0228) Note: Field welded concrete enclosure assembly with concrete pipe.	
33 42 11 00-0234	EA 48" Embedded Cylinder Pipe Repair.....	16,213.22
33 42 11 00-0235	EA 54" Embedded Cylinder Pipe Repair.....	18,846.72
33 42 11 00-0236	EA 60" Embedded Cylinder Pipe Repair.....	21,498.24
33 42 11 00-0237	EA 66" Embedded Cylinder Pipe Repair.....	24,290.96
33 42 11 00-0238	EA 72" Embedded Cylinder Pipe Repair.....	29,274.43
33 42 11 00-0239	High Density Polyethylene (HDPE) Piping (33 42 11)	
33 42 11 00-0240	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0239) Note: Excludes couplings and gaskets.	
33 42 11 00-0241	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0240)	
33 42 11 00-0242	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	16.17
	For <100, Add	2.81
	For >1,000, Deduct	-1.51
33 42 11 00-0243	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	21.71
	For <100, Add	3.27
	For >1,000, Deduct	-1.90
33 42 11 00-0244	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.05
	For <100, Add	3.80
	For >1,000, Deduct	-2.30
33 42 11 00-0245	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.27
	For <100, Add	3.94
	For >1,000, Deduct	-2.55
33 42 11 00-0246	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.96
	For <100, Add	4.07
	For >1,000, Deduct	-2.67
33 42 11 00-0247	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	37.98
	For <100, Add	4.22
	For >1,000, Deduct	-2.95
33 42 11 00-0248	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	47.05
	For <100, Add	4.37
	For >1,000, Deduct	-3.45
33 42 11 00-0249	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	65.73
	For <100, Add	5.12
	For >1,000, Deduct	-4.57
33 42 11 00-0250	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	93.74
	For <100, Add	6.89
	For >1,000, Deduct	-6.41
33 42 11 00-0251	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	123.69
	For <100, Add	8.71
	For >1,000, Deduct	-8.36

33 Utilities
33 40 Stormwater Utilities
33 42 Stormwater Conveyance



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0252			Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0253	LF		12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.74	10.19
			For <100, Add	4.07	
			For >1,000, Deduct	-2.66	
33 42 11 00-0254	LF		15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	38.87	10.54
			For <100, Add	4.22	
			For >1,000, Deduct	-3.00	
33 42 11 00-0255	LF		18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	48.38	10.93
			For <100, Add	4.37	
			For >1,000, Deduct	-3.51	
33 42 11 00-0256	LF		24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	67.84	12.80
			For <100, Add	5.12	
			For >1,000, Deduct	-4.67	
33 42 11 00-0257	LF		30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	99.52	17.23
			For <100, Add	6.89	
			For >1,000, Deduct	-6.70	
33 42 11 00-0258	LF		36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	127.99	21.78
			For <100, Add	8.71	
			For >1,000, Deduct	-8.58	
33 42 11 00-0259	LF		42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	169.40	23.77
			For <100, Add	9.51	
			For >1,000, Deduct	-10.85	
33 42 11 00-0260	LF		48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	184.23	26.81
			For <100, Add	10.72	
			For >1,000, Deduct	-11.89	
33 42 11 00-0261			Perforated, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small>		
			Note: Excludes couplings and gaskets.		
33 42 11 00-0262			Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		
33 42 11 00-0263	LF		4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	17.28	7.02
			For <100, Add	2.81	
			For >1,000, Deduct	-1.57	
33 42 11 00-0264	LF		6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	21.75	8.17
			For <100, Add	3.27	
			For >1,000, Deduct	-1.90	
33 42 11 00-0265	LF		8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.05	9.50
			For <100, Add	3.80	
			For >1,000, Deduct	-2.30	
33 42 11 00-0266	LF		10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.31	9.83
			For <100, Add	3.94	
			For >1,000, Deduct	-2.55	
33 42 11 00-0267	LF		12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.96	10.19
			For <100, Add	4.07	
			For >1,000, Deduct	-2.67	
33 42 11 00-0268	LF		15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	38.02	10.54
			For <100, Add	4.22	
			For >1,000, Deduct	-2.96	
33 42 11 00-0269	LF		18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	47.09	10.93
			For <100, Add	4.37	
			For >1,000, Deduct	-3.45	
33 42 11 00-0270	LF		24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	65.73	12.80
			For <100, Add	5.12	
			For >1,000, Deduct	-4.57	
33 42 11 00-0271	LF		30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	94.11	17.23
			For <100, Add	6.89	
			For >1,000, Deduct	-6.43	
33 42 11 00-0272	LF		36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	123.69	21.78
			For <100, Add	8.71	
			For >1,000, Deduct	-8.36	
33 42 11 00-0273			Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		
33 42 11 00-0274	LF		12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.78	10.19
			For <100, Add	4.07	
			For >1,000, Deduct	-2.66	
33 42 11 00-0275	LF		15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	38.91	10.54
			For <100, Add	4.22	
			For >1,000, Deduct	-3.00	
33 42 11 00-0276	LF		18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	48.42	10.93
			For <100, Add	4.37	
			For >1,000, Deduct	-3.51	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0277	LF		24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	67.84	12.80
			For <100, Add	5.12	
			For >1,000, Deduct	-4.67	
33 42 11 00-0278	LF		30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	99.52	17.23
			For <100, Add	6.89	
			For >1,000, Deduct	-6.70	
33 42 11 00-0279	LF		36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	127.99	21.78
			For <100, Add	8.71	
			For >1,000, Deduct	-8.58	
33 42 11 00-0280	LF		42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	169.40	23.77
			For <100, Add	9.51	
			For >1,000, Deduct	-10.85	
33 42 11 00-0281	LF		48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	184.23	26.81
			For <100, Add	10.72	
			For >1,000, Deduct	-11.89	
33 42 11 00-0282			Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239)		
			Note: Excludes couplings and gaskets.		
33 42 11 00-0283			Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0282)		
33 42 11 00-0284	EA		4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	74.36	24.69
33 42 11 00-0285	EA		6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	94.32	28.80
33 42 11 00-0286	EA		8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	156.97	34.98
33 42 11 00-0287	EA		10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	243.56	43.20
33 42 11 00-0288	EA		12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	391.08	51.44
33 42 11 00-0289	EA		15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	554.16	67.21
33 42 11 00-0290	EA		18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	799.44	90.52
33 42 11 00-0291	EA		24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,029.92	103.32
33 42 11 00-0292	EA		30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,824.05	119.33
33 42 11 00-0293	EA		36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,348.92	137.85
33 42 11 00-0294	EA		42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	3,936.71	164.59
33 42 11 00-0295	EA		48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	4,945.74	195.45
33 42 11 00-0296			Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0282)		
33 42 11 00-0297	EA		4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	113.63	24.69
33 42 11 00-0298	EA		6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	137.42	28.80
33 42 11 00-0299	EA		8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	184.18	34.98
33 42 11 00-0300	EA		10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	273.55	43.20
33 42 11 00-0301	EA		12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	487.58	51.44
33 42 11 00-0302	EA		15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	524.56	67.21
33 42 11 00-0303	EA		18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	741.85	90.52
33 42 11 00-0304			22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0282)		
33 42 11 00-0305	EA		4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	44.64	16.46
33 42 11 00-0306	EA		6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	55.53	19.21
33 42 11 00-0307	EA		8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	82.88	23.32
33 42 11 00-0308	EA		10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	104.51	28.80
33 42 11 00-0309	EA		12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	154.60	34.29
33 42 11 00-0310	EA		15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	248.30	43.89
33 42 11 00-0311	EA		18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	328.22	60.35
33 42 11 00-0312	EA		24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	641.07	68.58
33 42 11 00-0313	EA		30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	896.97	79.55
33 42 11 00-0314	EA		36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,051.66	91.89
33 42 11 00-0315	EA		42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,347.02	109.72
33 42 11 00-0316	EA		48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,828.14	130.30
33 42 11 00-0317			45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0282)		
33 42 11 00-0318	EA		4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	48.93	16.46
33 42 11 00-0319	EA		6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	64.48	19.21
33 42 11 00-0320	EA		8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	87.45	23.32
33 42 11 00-0321	EA		10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	141.69	28.80
33 42 11 00-0322	EA		12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	154.60	34.29
33 42 11 00-0323	EA		15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	247.56	43.89
33 42 11 00-0324	EA		18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	388.18	60.35
33 42 11 00-0325	EA		24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	687.39	68.58
33 42 11 00-0326	EA		30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	899.17	79.55
33 42 11 00-0327	EA		36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,151.49	91.89

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 11 00-0328	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)		1,732.32	109.72
33 42 11 00-0329	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)		2,173.48	130.30
33 42 11 00-0330		Couplings And End Caps, Corrugated High Density Polyethylene (HDPE)			
		Pipe Fittings <small>(33 42 11 00-0239)</small>			
		Note: For single and double wall high density polyethylene (HDPE) piping.			
33 42 11 00-0331		Couplings, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>			
33 42 11 00-0332	EA	4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		2.56	
33 42 11 00-0333	EA	6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		4.60	
33 42 11 00-0334	EA	8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		7.08	
33 42 11 00-0335	EA	10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		8.70	
33 42 11 00-0336	EA	12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		9.36	
33 42 11 00-0337	EA	15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		13.33	
33 42 11 00-0338	EA	18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		19.72	
33 42 11 00-0339	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		31.39	
33 42 11 00-0340	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		48.19	
33 42 11 00-0341	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		63.06	
33 42 11 00-0342	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		99.14	
33 42 11 00-0343	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe		134.09	
33 42 11 00-0344		Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE)			
		Pipe <small>(33 42 11 00-0330)</small>			
33 42 11 00-0345	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		135.77	
33 42 11 00-0346	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		142.16	
33 42 11 00-0347	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		148.85	
33 42 11 00-0348	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		155.84	
33 42 11 00-0349	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		184.84	
33 42 11 00-0350	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		190.85	
33 42 11 00-0351	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		199.05	
33 42 11 00-0352	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		226.73	
33 42 11 00-0353	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		363.46	
33 42 11 00-0354	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		398.10	
33 42 11 00-0355	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		433.77	
33 42 11 00-0356	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe		526.82	
33 42 11 00-0357		End Caps, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>			
33 42 11 00-0358	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		34.04	
33 42 11 00-0359	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		39.91	
33 42 11 00-0360	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		64.34	
33 42 11 00-0361	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		109.09	
33 42 11 00-0362	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		126.88	
33 42 11 00-0363	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		171.32	
33 42 11 00-0364	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe		177.61	
33 42 11 00-0365		Vitrified Clay Piping <small>(33 42 11)</small>			
33 42 11 00-0366		Extra Strength Vitrified Clay Piping <small>(33 42 11 00-0365)</small>			
33 42 11 00-0367		Plain Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0366)</small>			
		Note: ASTM C700.			
33 42 11 00-0368	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe		22.06	
		For 3' Lengths, Add		1.93	
		For 2' Lengths, Add		2.57	
		For Standard Strength, Deduct		-0.64	
		For >1,000, Deduct		-1.10	
33 42 11 00-0369	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe		36.63	
		For 3' Lengths, Add		2.99	
		For 2' Lengths, Add		3.99	
		For Standard Strength, Deduct		-1.00	
		For >1,000, Deduct		-1.83	
33 42 11 00-0370	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe		43.87	
		For 3' Lengths, Add		4.28	
		For 2' Lengths, Add		5.71	
		For Standard Strength, Deduct		-1.43	
		For >1,000, Deduct		-2.19	
33 42 11 00-0371	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe		52.75	
		For 3' Lengths, Add		6.56	
		For 2' Lengths, Add		8.74	
		For Standard Strength, Deduct		-2.19	
		For >1,000, Deduct		-2.64	
33 42 11 00-0372	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe		64.55	
		For 3' Lengths, Add		9.26	
		For 2' Lengths, Add		12.34	
		For Standard Strength, Deduct		-3.09	
		For >1,000, Deduct		-3.23	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0373 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	95.33	
For 3' Lengths, Add	17.35	
For 2' Lengths, Add	23.14	
For Standard Strength, Deduct	-5.78	
For >1,000, Deduct	-4.77	
33 42 11 00-0374 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	129.67	
For 3' Lengths, Add	24.87	
For 2' Lengths, Add	33.16	
For Standard Strength, Deduct	-8.29	
For >1,000, Deduct	-6.48	
33 42 11 00-0375 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	191.79	
For 3' Lengths, Add	39.84	
For 2' Lengths, Add	53.12	
For Standard Strength, Deduct	-13.28	
For >1,000, Deduct	-9.59	
33 42 11 00-0376 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	245.13	
For 3' Lengths, Add	52.05	
For 2' Lengths, Add	69.40	
For Standard Strength, Deduct	-17.35	
For >1,000, Deduct	-12.26	
33 42 11 00-0377 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	303.30	
For 3' Lengths, Add	64.91	
For 2' Lengths, Add	86.54	
For Standard Strength, Deduct	-21.64	
For >1,000, Deduct	-15.17	
33 42 11 00-0378 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	366.94	
For 3' Lengths, Add	78.40	
For 2' Lengths, Add	104.54	
For Standard Strength, Deduct	-26.13	
For >1,000, Deduct	-18.35	
33 42 11 00-0379 Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0366)</small>		
Note: ASTM C425.		
33 42 11 00-0380 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	31.27	
For 3' Lengths, Add	2.27	
For 2' Lengths, Add	3.03	
For Standard Strength, Deduct	-0.76	
For >1,000, Deduct	-1.56	
33 42 11 00-0381 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	39.03	
For 3' Lengths, Add	3.71	
For 2' Lengths, Add	4.95	
For Standard Strength, Deduct	-1.24	
For >1,000, Deduct	-1.95	
33 42 11 00-0382 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	47.08	
For 3' Lengths, Add	5.24	
For 2' Lengths, Add	6.99	
For Standard Strength, Deduct	-1.75	
For >1,000, Deduct	-2.35	
33 42 11 00-0383 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	59.60	
For 3' Lengths, Add	8.61	
For 2' Lengths, Add	11.48	
For Standard Strength, Deduct	-2.87	
For >1,000, Deduct	-2.98	
33 42 11 00-0384 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	71.40	
For 3' Lengths, Add	11.31	
For 2' Lengths, Add	15.08	
For Standard Strength, Deduct	-3.77	
For >1,000, Deduct	-3.57	
33 42 11 00-0385 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	106.25	
For 3' Lengths, Add	20.63	
For 2' Lengths, Add	27.50	
For Standard Strength, Deduct	-6.88	
For >1,000, Deduct	-5.31	
33 42 11 00-0386 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	147.45	
For 3' Lengths, Add	30.20	
For 2' Lengths, Add	40.27	
For Standard Strength, Deduct	-10.07	
For >1,000, Deduct	-7.37	
33 42 11 00-0387 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	212.14	
For 3' Lengths, Add	45.95	
For 2' Lengths, Add	61.26	
For Standard Strength, Deduct	-15.32	
For >1,000, Deduct	-10.61	
33 42 11 00-0388 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	277.26	
For 3' Lengths, Add	61.69	
For 2' Lengths, Add	82.26	
For Standard Strength, Deduct	-20.56	
For >1,000, Deduct	-13.86	
33 42 11 00-0389 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	444.68	
For 3' Lengths, Add	107.32	
For 2' Lengths, Add	143.09	
For Standard Strength, Deduct	-35.77	
For >1,000, Deduct	-22.23	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0390	LF	36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	632.56
		<i>For 3' Lengths, Add</i>	158.09
		<i>For 2' Lengths, Add</i>	210.78
		<i>For Standard Strength, Deduct</i>	-52.70
		<i>For >1,000, Deduct</i>	-31.63
33 42 11 00-0391		Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0365)	
33 42 11 00-0392		1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)	
33 42 11 00-0393		Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0392)	
33 42 11 00-0394	EA	4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	92.77
33 42 11 00-0395	EA	6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	125.44
33 42 11 00-0396	EA	8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	179.65
33 42 11 00-0397	EA	10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	247.43
33 42 11 00-0398	EA	12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	327.25
33 42 11 00-0399	EA	15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	784.02
33 42 11 00-0400	EA	18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,106.15
33 42 11 00-0401	EA	21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,726.69
33 42 11 00-0402	EA	24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,992.65
33 42 11 00-0403	EA	30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,313.59
33 42 11 00-0404	EA	36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,472.83
33 42 11 00-0405		Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0392)	
33 42 11 00-0406	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	104.80
33 42 11 00-0407	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	149.30
33 42 11 00-0408	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	202.57
33 42 11 00-0409	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	272.01
33 42 11 00-0410	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	345.57
33 42 11 00-0411	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	879.34
33 42 11 00-0412	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,279.79
33 42 11 00-0413	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,314.98
33 42 11 00-0414	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,552.17
33 42 11 00-0415	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,841.68
33 42 11 00-0416	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,222.28
33 42 11 00-0417		1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)	
33 42 11 00-0418		Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)	
33 42 11 00-0419	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	108.41
33 42 11 00-0420	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	144.28
33 42 11 00-0421	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	201.68
33 42 11 00-0422	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	271.35
33 42 11 00-0423	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	354.21
33 42 11 00-0424	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	814.01
33 42 11 00-0425	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,143.55
33 42 11 00-0426	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,773.86
33 42 11 00-0427	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,049.94
33 42 11 00-0428	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,385.03
33 42 11 00-0429	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	3,552.25
33 42 11 00-0430		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)	
33 42 11 00-0431	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	123.55
33 42 11 00-0432	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	171.90
33 42 11 00-0433	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	229.00
33 42 11 00-0434	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	300.73
33 42 11 00-0435	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	377.92
33 42 11 00-0436	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	915.34
33 42 11 00-0437	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,324.68
33 42 11 00-0438	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,572.38
33 42 11 00-0439	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,620.91
33 42 11 00-0440	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,927.42
33 42 11 00-0441	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	4,317.59
33 42 11 00-0442		Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0391)	
33 42 11 00-0443		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)	
33 42 11 00-0444	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	118.94
33 42 11 00-0445	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	155.42
33 42 11 00-0446	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	211.54
33 42 11 00-0447	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	280.18
33 42 11 00-0448	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	354.48
33 42 11 00-0449	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	821.69
33 42 11 00-0450	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,150.26
33 42 11 00-0451	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,662.54
33 42 11 00-0452	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,314.28
33 42 11 00-0453	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,448.42



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0454	EA		36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,523.34	
33 42 11 00-0455			Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)		
33 42 11 00-0456	EA		4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	145.34	
33 42 11 00-0457	EA		6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	199.60	
33 42 11 00-0458	EA		8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	263.13	
33 42 11 00-0459	EA		10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	341.06	
33 42 11 00-0460	EA		12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	425.80	
33 42 11 00-0461	EA		15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	999.53	
33 42 11 00-0462	EA		18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,441.14	
33 42 11 00-0463	EA		21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,140.41	
33 42 11 00-0464	EA		24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,836.28	
33 42 11 00-0465	EA		30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,280.30	
33 42 11 00-0466	EA		36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	4,658.91	
33 42 11 00-0467			Vitrified Clay Couplings (33 42 11 00-0365)		
33 42 11 00-0468			Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0467)		
			Note: Stainless steel tightening band at each end (Ferenco #1002)		
33 42 11 00-0469	EA		4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	34.85	
33 42 11 00-0470	EA		4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	34.56	
33 42 11 00-0471	EA		5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	46.19	
33 42 11 00-0472	EA		5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	43.87	
33 42 11 00-0473	EA		6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	55.69	
33 42 11 00-0474	EA		6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	57.70	
33 42 11 00-0475	EA		6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	53.25	
33 42 11 00-0476	EA		8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	74.67	
33 42 11 00-0477	EA		8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	69.58	
33 42 11 00-0478	EA		10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	96.15	
33 42 11 00-0479	EA		10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	88.28	
33 42 11 00-0480	EA		12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	118.24	
33 42 11 00-0481	EA		12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	100.18	
33 42 11 00-0482	EA		15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	195.07	
33 42 11 00-0483	EA		15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	152.03	
33 42 11 00-0484			Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0467)		
			Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0485	EA		4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	74.53	
33 42 11 00-0486	EA		6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	99.20	
33 42 11 00-0487	EA		6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	104.88	
33 42 11 00-0488	EA		8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	109.96	
33 42 11 00-0489	EA		10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	135.69	
33 42 11 00-0490	EA		12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	157.41	
33 42 11 00-0491			Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0467)		
			Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0492	EA		4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	76.43	
33 42 11 00-0493	EA		6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	101.11	
33 42 11 00-0494	EA		6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	92.64	
33 42 11 00-0495	EA		8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	121.34	
33 42 11 00-0496	EA		10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	175.55	
33 42 11 00-0497	EA		12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	198.35	
33 42 11 00-0498			Corrugated Metal Piping (33 42 11)		
33 42 11 00-0499			Galvanized Corrugated Steel Piping (33 42 11 00-0498)		
33 42 11 00-0500			2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0501			16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0500)		
33 42 11 00-0502	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	45.75	10.61
			For Bituminous Coated Pipe, Add	5.74	
			For Bituminous Coated And 25% Paved, Add	11.73	
			For Smooth-Flo, Add	20.95	
33 42 11 00-0503	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	52.66	11.12
			For Bituminous Coated Pipe, Add	7.22	
			For Bituminous Coated And 25% Paved, Add	14.77	
			For Smooth-Flo, Add	26.37	
33 42 11 00-0504	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	59.81	12.13
			For Bituminous Coated Pipe, Add	8.75	
			For Bituminous Coated And 25% Paved, Add	17.89	
			For Smooth-Flo, Add	31.95	
33 42 11 00-0505	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	68.76	13.14
			For Bituminous Coated Pipe, Add	10.46	
			For Bituminous Coated And 25% Paved, Add	21.40	
			For Smooth-Flo, Add	38.22	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0506	LF	24"	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	76.38	14.15
			<i>For Bituminous Coated Pipe, Add</i>	11.77	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.08	
			<i>For Smooth-Flo, Add</i>	43.01	
33 42 11 00-0507	LF	30"	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	100.44	18.19
			<i>For Bituminous Coated Pipe, Add</i>	15.28	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.24	
			<i>For Smooth-Flo, Add</i>	55.80	
33 42 11 00-0508	LF	36"	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	130.12	23.81
			<i>For Bituminous Coated Pipe, Add</i>	19.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	39.41	
			<i>For Smooth-Flo, Add</i>	70.38	
33 42 11 00-0509	LF	42"	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	149.31	28.15
			<i>For Bituminous Coated Pipe, Add</i>	22.80	
			<i>For Bituminous Coated And 25% Paved, Add</i>	46.63	
			<i>For Smooth-Flo, Add</i>	83.27	
33 42 11 00-0510	LF	48"	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	167.68	32.48
			<i>For Bituminous Coated Pipe, Add</i>	25.53	
			<i>For Bituminous Coated And 25% Paved, Add</i>	52.23	
			<i>For Smooth-Flo, Add</i>	93.27	
33 42 11 00-0511			14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
			<small>^{42 11 00-0500}</small>		
33 42 11 00-0512	LF	12"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	50.87	10.61
			<i>For Bituminous Coated Pipe, Add</i>	5.82	
			<i>For Bituminous Coated And 25% Paved, Add</i>	13.49	
			<i>For Smooth-Flo, Add</i>	27.26	
33 42 11 00-0513	LF	15"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	58.97	11.12
			<i>For Bituminous Coated Pipe, Add</i>	7.30	
			<i>For Bituminous Coated And 25% Paved, Add</i>	16.91	
			<i>For Smooth-Flo, Add</i>	34.19	
33 42 11 00-0514	LF	18"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	67.43	12.13
			<i>For Bituminous Coated Pipe, Add</i>	8.84	
			<i>For Bituminous Coated And 25% Paved, Add</i>	20.48	
			<i>For Smooth-Flo, Add</i>	41.40	
33 42 11 00-0515	LF	21"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.57	13.14
			<i>For Bituminous Coated Pipe, Add</i>	10.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.35	
			<i>For Smooth-Flo, Add</i>	49.23	
33 42 11 00-0516	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	86.62	14.15
			<i>For Bituminous Coated Pipe, Add</i>	11.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.56	
			<i>For Smooth-Flo, Add</i>	55.71	
33 42 11 00-0517	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	112.94	18.19
			<i>For Bituminous Coated Pipe, Add</i>	15.28	
			<i>For Bituminous Coated And 25% Paved, Add</i>	35.39	
			<i>For Smooth-Flo, Add</i>	71.54	
33 42 11 00-0518	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	145.30	23.81
			<i>For Bituminous Coated Pipe, Add</i>	19.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	44.36	
			<i>For Smooth-Flo, Add</i>	89.67	
33 42 11 00-0519	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	166.69	28.15
			<i>For Bituminous Coated Pipe, Add</i>	22.54	
			<i>For Bituminous Coated And 25% Paved, Add</i>	52.22	
			<i>For Smooth-Flo, Add</i>	105.55	
33 42 11 00-0520	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	187.57	32.48
			<i>For Bituminous Coated Pipe, Add</i>	25.33	
			<i>For Bituminous Coated And 25% Paved, Add</i>	58.69	
			<i>For Smooth-Flo, Add</i>	118.63	
33 42 11 00-0521	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	225.54	36.80
			<i>For Bituminous Coated Pipe, Add</i>	31.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	72.17	
			<i>For Smooth-Flo, Add</i>	145.89	
33 42 11 00-0522			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
			<small>^{42 11 00-0500}</small>		
33 42 11 00-0523	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	83.21	12.13
			<i>For Bituminous Coated Pipe, Add</i>	10.12	
			<i>For Bituminous Coated And 25% Paved, Add</i>	18.28	
			<i>For Smooth-Flo, Add</i>	35.13	
33 42 11 00-0524	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	95.91	13.14
			<i>For Bituminous Coated Pipe, Add</i>	11.96	
			<i>For Bituminous Coated And 25% Paved, Add</i>	21.61	
			<i>For Smooth-Flo, Add</i>	41.52	
33 42 11 00-0525	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	107.52	13.14
			<i>For Bituminous Coated Pipe, Add</i>	13.56	
			<i>For Bituminous Coated And 25% Paved, Add</i>	24.50	
			<i>For Smooth-Flo, Add</i>	47.08	
33 42 11 00-0526	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	138.78	18.19
			<i>For Bituminous Coated Pipe, Add</i>	17.25	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.15	
			<i>For Smooth-Flo, Add</i>	59.86	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0527	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	175.97 21.33 38.52 74.02	23.81
33 42 11 00-0528	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	202.12 24.99 45.13 86.74	28.15
33 42 11 00-0529	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	228.18 28.22 50.97 97.95	32.48
33 42 11 00-0530	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	270.37 33.84 61.11 117.44	36.80
33 42 11 00-0531	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	295.70 37.06 66.92 128.61	38.96
33 42 11 00-0532	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	358.64 45.11 81.47 156.57	47.63
33 42 11 00-0533			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0500)		
33 42 11 00-0534	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	204.67 27.13 45.32 64.67	23.81
33 42 11 00-0535	LF		42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	235.70 31.78 53.09 75.76	28.15
33 42 11 00-0536	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	266.28 35.92 60.01 85.62	32.48
33 42 11 00-0537	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	313.06 42.55 71.07 101.41	36.80
33 42 11 00-0538	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	343.21 46.73 78.06 111.38	38.96
33 42 11 00-0539	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	410.86 55.90 93.37 133.23	47.63
33 42 11 00-0540	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	478.76 60.02 100.25 143.05	69.28
33 42 11 00-0541			3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0499)		
33 42 11 00-0542			16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0541)		
33 42 11 00-0543	LF		36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	156.44 21.19 48.09 95.76	23.81
33 42 11 00-0544	LF		42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	179.50 24.88 56.47 112.45	28.15
33 42 11 00-0545	LF		48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	201.68 27.90 63.34 126.12	32.48
33 42 11 00-0546	LF		54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	241.73 34.08 77.37 154.05	36.80
33 42 11 00-0547	LF		60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	263.37 37.13 84.29 167.84	38.96
33 42 11 00-0548	LF		66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	331.73 47.69 108.27 215.58	47.63

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0549	LF		72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	391.95	69.28
			<i>For Bituminous Coated Pipe, Add</i>	50.84	
			<i>For Bituminous Coated And 25% Paved, Add</i>	115.40	
			<i>For Smooth-Flo, Add</i>	229.79	
33 42 11 00-0550	LF		78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	421.51	75.77
			<i>For Bituminous Coated Pipe, Add</i>	53.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	122.57	
			<i>For Smooth-Flo, Add</i>	244.05	
33 42 11 00-0551	LF		84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	448.12	81.18
			<i>For Bituminous Coated Pipe, Add</i>	57.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	129.73	
			<i>For Smooth-Flo, Add</i>	258.32	
33 42 11 00-0552	LF		90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	474.78	86.59
			<i>For Bituminous Coated Pipe, Add</i>	60.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	136.92	
			<i>For Smooth-Flo, Add</i>	272.64	
33 42 11 00-0553	LF		96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	502.11	92.01
			<i>For Bituminous Coated Pipe, Add</i>	63.46	
			<i>For Bituminous Coated And 25% Paved, Add</i>	144.05	
			<i>For Smooth-Flo, Add</i>	286.84	
33 42 11 00-0554	LF		102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	532.60	97.42
			<i>For Bituminous Coated Pipe, Add</i>	66.64	
			<i>For Bituminous Coated And 25% Paved, Add</i>	151.27	
			<i>For Smooth-Flo, Add</i>	301.21	
33 42 11 00-0555			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)		
33 42 11 00-0556	LF		54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	268.59	36.80
			<i>For Bituminous Coated Pipe, Add</i>	39.45	
			<i>For Bituminous Coated And 25% Paved, Add</i>	77.33	
			<i>For Smooth-Flo, Add</i>	156.24	
33 42 11 00-0557	LF		60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	293.08	38.96
			<i>For Bituminous Coated Pipe, Add</i>	43.07	
			<i>For Bituminous Coated And 25% Paved, Add</i>	84.43	
			<i>For Smooth-Flo, Add</i>	170.57	
33 42 11 00-0558	LF		66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	364.42	47.63
			<i>For Bituminous Coated Pipe, Add</i>	54.23	
			<i>For Bituminous Coated And 25% Paved, Add</i>	106.29	
			<i>For Smooth-Flo, Add</i>	214.76	
33 42 11 00-0559	LF		72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	427.56	69.28
			<i>For Bituminous Coated Pipe, Add</i>	57.96	
			<i>For Bituminous Coated And 25% Paved, Add</i>	113.60	
			<i>For Smooth-Flo, Add</i>	229.52	
33 42 11 00-0560	LF		78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	459.97	75.77
			<i>For Bituminous Coated Pipe, Add</i>	61.69	
			<i>For Bituminous Coated And 25% Paved, Add</i>	120.90	
			<i>For Smooth-Flo, Add</i>	244.28	
33 42 11 00-0561	LF		84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	489.62	81.18
			<i>For Bituminous Coated Pipe, Add</i>	65.45	
			<i>For Bituminous Coated And 25% Paved, Add</i>	128.28	
			<i>For Smooth-Flo, Add</i>	259.18	
33 42 11 00-0562	LF		90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	519.08	86.59
			<i>For Bituminous Coated Pipe, Add</i>	69.18	
			<i>For Bituminous Coated And 25% Paved, Add</i>	135.59	
			<i>For Smooth-Flo, Add</i>	273.94	
33 42 11 00-0563	LF		96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	549.33	92.01
			<i>For Bituminous Coated Pipe, Add</i>	72.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	142.89	
			<i>For Smooth-Flo, Add</i>	288.70	
33 42 11 00-0564	LF		102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	582.68	97.42
			<i>For Bituminous Coated Pipe, Add</i>	76.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	150.25	
			<i>For Smooth-Flo, Add</i>	303.56	
33 42 11 00-0565	LF		108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	618.52	108.24
			<i>For Bituminous Coated Pipe, Add</i>	80.41	
			<i>For Bituminous Coated And 25% Paved, Add</i>	157.60	
			<i>For Smooth-Flo, Add</i>	318.41	
33 42 11 00-0566	LF		114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	653.57	119.07
			<i>For Bituminous Coated Pipe, Add</i>	84.09	
			<i>For Bituminous Coated And 25% Paved, Add</i>	164.81	
			<i>For Smooth-Flo, Add</i>	332.98	
33 42 11 00-0567			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)		
33 42 11 00-0568	LF		60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	358.99	38.96
			<i>For Bituminous Coated Pipe, Add</i>	56.26	
			<i>For Bituminous Coated And 25% Paved, Add</i>	107.17	
			<i>For Smooth-Flo, Add</i>	174.67	
33 42 11 00-0569	LF		66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	437.42	47.63
			<i>For Bituminous Coated Pipe, Add</i>	68.83	
			<i>For Bituminous Coated And 25% Paved, Add</i>	131.12	
			<i>For Smooth-Flo, Add</i>	213.72	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0570	LF		72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	506.93	69.28
			<i>For Bituminous Coated Pipe, Add</i>	73.83	
			<i>For Bituminous Coated And 25% Paved, Add</i>	140.65	
			<i>For Smooth-Flo, Add</i>	229.25	
33 42 11 00-0571	LF		78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	545.77	75.77
			<i>For Bituminous Coated Pipe, Add</i>	78.85	
			<i>For Bituminous Coated And 25% Paved, Add</i>	150.20	
			<i>For Smooth-Flo, Add</i>	244.82	
33 42 11 00-0572	LF		84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	581.79	81.18
			<i>For Bituminous Coated Pipe, Add</i>	83.88	
			<i>For Bituminous Coated And 25% Paved, Add</i>	159.80	
			<i>For Smooth-Flo, Add</i>	260.46	
33 42 11 00-0573	LF		90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	617.68	86.59
			<i>For Bituminous Coated Pipe, Add</i>	88.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	169.35	
			<i>For Smooth-Flo, Add</i>	276.03	
33 42 11 00-0574	LF		96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	654.43	92.01
			<i>For Bituminous Coated Pipe, Add</i>	93.92	
			<i>For Bituminous Coated And 25% Paved, Add</i>	178.93	
			<i>For Smooth-Flo, Add</i>	291.63	
33 42 11 00-0575	LF		102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	694.20	97.42
			<i>For Bituminous Coated Pipe, Add</i>	98.96	
			<i>For Bituminous Coated And 25% Paved, Add</i>	188.52	
			<i>For Smooth-Flo, Add</i>	307.27	
33 42 11 00-0576	LF		108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	736.36	108.24
			<i>For Bituminous Coated Pipe, Add</i>	103.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	198.07	
			<i>For Smooth-Flo, Add</i>	322.84	
33 42 11 00-0577	LF		114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	777.90	119.07
			<i>For Bituminous Coated Pipe, Add</i>	108.95	
			<i>For Bituminous Coated And 25% Paved, Add</i>	207.55	
			<i>For Smooth-Flo, Add</i>	338.30	
33 42 11 00-0578	LF		120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	818.38	129.89
			<i>For Bituminous Coated Pipe, Add</i>	113.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	217.15	
			<i>For Smooth-Flo, Add</i>	353.94	
33 42 11 00-0579			10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0541)		
33 42 11 00-0580	LF		72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	580.94	69.28
			<i>For Bituminous Coated Pipe, Add</i>	88.64	
			<i>For Bituminous Coated And 25% Paved, Add</i>	168.41	
			<i>For Smooth-Flo, Add</i>	225.14	
33 42 11 00-0581	LF		78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	625.86	75.77
			<i>For Bituminous Coated Pipe, Add</i>	94.86	
			<i>For Bituminous Coated And 25% Paved, Add</i>	180.24	
			<i>For Smooth-Flo, Add</i>	240.95	
33 42 11 00-0582	LF		84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	667.95	81.18
			<i>For Bituminous Coated Pipe, Add</i>	101.12	
			<i>For Bituminous Coated And 25% Paved, Add</i>	192.12	
			<i>For Smooth-Flo, Add</i>	256.83	
33 42 11 00-0583	LF		90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	709.91	86.59
			<i>For Bituminous Coated Pipe, Add</i>	107.34	
			<i>For Bituminous Coated And 25% Paved, Add</i>	203.95	
			<i>For Smooth-Flo, Add</i>	272.65	
33 42 11 00-0584	LF		96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	752.73	92.01
			<i>For Bituminous Coated Pipe, Add</i>	113.58	
			<i>For Bituminous Coated And 25% Paved, Add</i>	215.81	
			<i>For Smooth-Flo, Add</i>	288.50	
33 42 11 00-0585	LF		102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	798.58	97.42
			<i>For Bituminous Coated Pipe, Add</i>	119.84	
			<i>For Bituminous Coated And 25% Paved, Add</i>	227.69	
			<i>For Smooth-Flo, Add</i>	304.38	
33 42 11 00-0586	LF		108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	846.81	108.24
			<i>For Bituminous Coated Pipe, Add</i>	126.06	
			<i>For Bituminous Coated And 25% Paved, Add</i>	239.52	
			<i>For Smooth-Flo, Add</i>	320.20	
33 42 11 00-0587	LF		114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	894.36	119.07
			<i>For Bituminous Coated Pipe, Add</i>	132.24	
			<i>For Bituminous Coated And 25% Paved, Add</i>	251.26	
			<i>For Smooth-Flo, Add</i>	335.90	
33 42 11 00-0588	LF		120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	940.97	129.89
			<i>For Bituminous Coated Pipe, Add</i>	138.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	263.17	
			<i>For Smooth-Flo, Add</i>	351.81	
33 42 11 00-0589	LF		126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	989.43	140.72
			<i>For Bituminous Coated Pipe, Add</i>	144.71	
			<i>For Bituminous Coated And 25% Paved, Add</i>	274.96	
			<i>For Smooth-Flo, Add</i>	367.57	
33 42 11 00-0590	LF		132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	1,040.75	151.54
			<i>For Bituminous Coated Pipe, Add</i>	150.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	286.84	
			<i>For Smooth-Flo, Add</i>	383.45	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0591	LF		138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	1,095.41 157.23 298.74 399.36	162.37
33 42 11 00-0592			125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0593			16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0594	LF		48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	202.45 35.07 79.96 126.95	32.48
33 42 11 00-0595	LF		54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	243.22 42.98 97.98 155.57	36.80
33 42 11 00-0596	LF		60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	264.67 46.74 106.57 169.20	38.96
33 42 11 00-0597	LF		66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	328.63 58.84 134.16 213.01	47.63
33 42 11 00-0598	LF		72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	388.50 62.69 142.92 226.92	69.28
33 42 11 00-0599	LF		78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	417.58 66.51 151.64 240.77	75.77
33 42 11 00-0600	LF		84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	443.65 70.32 160.33 254.56	81.18
33 42 11 00-0601	LF		90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	469.65 74.12 168.98 268.30	86.59
33 42 11 00-0602	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	496.70 77.97 177.78 282.26	92.01
33 42 11 00-0603	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	527.07 81.92 186.77 296.54	97.42
33 42 11 00-0604			14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0605	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	276.80 41.10 96.58 174.86	36.80
33 42 11 00-0606	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	302.01 44.86 105.42 190.88	38.96
33 42 11 00-0607	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	369.36 55.22 129.77 234.96	47.63
33 42 11 00-0608	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	432.50 58.95 138.53 250.82	69.28
33 42 11 00-0609	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	465.57 62.81 147.59 267.24	75.77
33 42 11 00-0610	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	495.39 66.60 156.52 283.40	81.18
33 42 11 00-0611	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	523.24 70.01 164.52 297.89	86.59



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	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0612 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	555.70	92.01
For Bituminous Coated Pipe, Add	74.18	
For Bituminous Coated And 25% Paved, Add	174.32	
For Smooth-Flo, Add	315.63	
33 42 11 00-0613 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	589.23	97.42
For Bituminous Coated Pipe, Add	77.97	
For Bituminous Coated And 25% Paved, Add	183.22	
For Smooth-Flo, Add	331.75	
33 42 11 00-0614 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	625.07	108.24
For Bituminous Coated Pipe, Add	81.72	
For Bituminous Coated And 25% Paved, Add	192.03	
For Smooth-Flo, Add	347.70	
33 42 11 00-0615 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	660.96	119.07
For Bituminous Coated Pipe, Add	85.56	
For Bituminous Coated And 25% Paved, Add	201.08	
For Smooth-Flo, Add	364.07	
33 42 11 00-0616 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0592)		
33 42 11 00-0617 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	371.91	38.96
For Bituminous Coated Pipe, Add	58.84	
For Bituminous Coated And 25% Paved, Add	111.80	
For Smooth-Flo, Add	201.82	
33 42 11 00-0618 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	446.35	47.63
For Bituminous Coated Pipe, Add	70.62	
For Bituminous Coated And 25% Paved, Add	134.17	
For Smooth-Flo, Add	242.22	
33 42 11 00-0619 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	516.81	69.28
For Bituminous Coated Pipe, Add	75.81	
For Bituminous Coated And 25% Paved, Add	144.04	
For Smooth-Flo, Add	260.03	
33 42 11 00-0620 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	556.37	75.77
For Bituminous Coated Pipe, Add	80.97	
For Bituminous Coated And 25% Paved, Add	153.84	
For Smooth-Flo, Add	277.71	
33 42 11 00-0621 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	592.75	81.18
For Bituminous Coated Pipe, Add	86.08	
For Bituminous Coated And 25% Paved, Add	163.54	
For Smooth-Flo, Add	295.24	
33 42 11 00-0622 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	629.47	86.59
For Bituminous Coated Pipe, Add	91.26	
For Bituminous Coated And 25% Paved, Add	173.39	
For Smooth-Flo, Add	313.01	
33 42 11 00-0623 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	666.81	92.01
For Bituminous Coated Pipe, Add	96.40	
For Bituminous Coated And 25% Paved, Add	183.16	
For Smooth-Flo, Add	330.65	
33 42 11 00-0624 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	707.06	97.42
For Bituminous Coated Pipe, Add	101.53	
For Bituminous Coated And 25% Paved, Add	192.91	
For Smooth-Flo, Add	348.25	
33 42 11 00-0625 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	750.05	108.24
For Bituminous Coated Pipe, Add	106.71	
For Bituminous Coated And 25% Paved, Add	202.75	
For Smooth-Flo, Add	366.02	
33 42 11 00-0626 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	792.43	119.07
For Bituminous Coated Pipe, Add	111.86	
For Bituminous Coated And 25% Paved, Add	212.53	
For Smooth-Flo, Add	383.67	
33 42 11 00-0627 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	833.44	129.89
For Bituminous Coated Pipe, Add	117.00	
For Bituminous Coated And 25% Paved, Add	222.30	
For Smooth-Flo, Add	401.32	
33 42 11 00-0628 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0592)		
33 42 11 00-0629 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	597.55	69.28
For Bituminous Coated Pipe, Add	91.96	
For Bituminous Coated And 25% Paved, Add	174.72	
For Smooth-Flo, Add	274.49	
33 42 11 00-0630 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	644.62	75.77
For Bituminous Coated Pipe, Add	98.62	
For Bituminous Coated And 25% Paved, Add	187.37	
For Smooth-Flo, Add	294.37	
33 42 11 00-0631 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	688.02	81.18
For Bituminous Coated Pipe, Add	105.13	
For Bituminous Coated And 25% Paved, Add	199.75	
For Smooth-Flo, Add	313.81	
33 42 11 00-0632 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	731.11	86.59
For Bituminous Coated Pipe, Add	111.58	
For Bituminous Coated And 25% Paved, Add	212.01	
For Smooth-Flo, Add	333.08	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0633	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	775.36	92.01
			<i>For Bituminous Coated Pipe, Add</i>	118.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	224.41	
			<i>For Smooth-Flo, Add</i>	352.56	
33 42 11 00-0634	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	822.28	97.42
			<i>For Bituminous Coated Pipe, Add</i>	124.58	
			<i>For Bituminous Coated And 25% Paved, Add</i>	236.69	
			<i>For Smooth-Flo, Add</i>	371.86	
33 42 11 00-0635	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	871.94	108.24
			<i>For Bituminous Coated Pipe, Add</i>	131.09	
			<i>For Bituminous Coated And 25% Paved, Add</i>	249.07	
			<i>For Smooth-Flo, Add</i>	391.30	
33 42 11 00-0636	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	921.10	119.07
			<i>For Bituminous Coated Pipe, Add</i>	137.59	
			<i>For Bituminous Coated And 25% Paved, Add</i>	261.42	
			<i>For Smooth-Flo, Add</i>	410.71	
33 42 11 00-0637	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	968.72	129.89
			<i>For Bituminous Coated Pipe, Add</i>	144.06	
			<i>For Bituminous Coated And 25% Paved, Add</i>	273.71	
			<i>For Smooth-Flo, Add</i>	430.01	
33 42 11 00-0638	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	1,028.84	140.72
			<i>For Bituminous Coated Pipe, Add</i>	152.60	
			<i>For Bituminous Coated And 25% Paved, Add</i>	289.93	
			<i>For Smooth-Flo, Add</i>	455.50	
33 42 11 00-0639	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	1,084.09	151.54
			<i>For Bituminous Coated Pipe, Add</i>	159.63	
			<i>For Bituminous Coated And 25% Paved, Add</i>	303.30	
			<i>For Smooth-Flo, Add</i>	476.51	
33 42 11 00-0640	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	1,143.99	162.37
			<i>For Bituminous Coated Pipe, Add</i>	166.95	
			<i>For Bituminous Coated And 25% Paved, Add</i>	317.20	
			<i>For Smooth-Flo, Add</i>	498.33	
33 42 11 00-0641			Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0642			16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0643	LF		18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	70.05	12.13
			<i>For Bituminous Coated Pipe, Add</i>	10.81	
33 42 11 00-0644	LF		21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	80.79	13.14
			<i>For Bituminous Coated Pipe, Add</i>	12.88	
33 42 11 00-0645	LF		24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	90.49	14.15
			<i>For Bituminous Coated Pipe, Add</i>	14.62	
33 42 11 00-0646	LF		30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	118.18	18.19
			<i>For Bituminous Coated Pipe, Add</i>	18.84	
33 42 11 00-0647	LF		36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	151.85	23.81
			<i>For Bituminous Coated Pipe, Add</i>	23.61	
33 42 11 00-0648	LF		42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	174.61	28.15
			<i>For Bituminous Coated Pipe, Add</i>	27.84	
33 42 11 00-0649	LF		48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	196.68	32.48
			<i>For Bituminous Coated Pipe, Add</i>	31.34	
33 42 11 00-0650	LF		54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	236.08	36.80
			<i>For Bituminous Coated Pipe, Add</i>	38.39	
33 42 11 00-0651	LF		60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	257.59	38.96
			<i>For Bituminous Coated Pipe, Add</i>	41.91	
33 42 11 00-0652			14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0653	LF		18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	77.79	12.13
			<i>For Bituminous Coated Pipe, Add</i>	12.50	
33 42 11 00-0654	LF		21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	89.84	13.14
			<i>For Bituminous Coated Pipe, Add</i>	14.86	
33 42 11 00-0655	LF		24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	100.79	14.15
			<i>For Bituminous Coated Pipe, Add</i>	16.88	
33 42 11 00-0656	LF		30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	130.98	18.19
			<i>For Bituminous Coated Pipe, Add</i>	21.64	
33 42 11 00-0657	LF		36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	167.27	23.81
			<i>For Bituminous Coated Pipe, Add</i>	26.97	
33 42 11 00-0658	LF		42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	192.65	28.15
			<i>For Bituminous Coated Pipe, Add</i>	31.77	
33 42 11 00-0659	LF		48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	217.28	32.48
			<i>For Bituminous Coated Pipe, Add</i>	35.83	
33 42 11 00-0660	LF		54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	259.24	36.80
			<i>For Bituminous Coated Pipe, Add</i>	43.41	
33 42 11 00-0661	LF		60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	283.37	38.96
			<i>For Bituminous Coated Pipe, Add</i>	47.51	
33 42 11 00-0662	LF		66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	348.76	47.63
			<i>For Bituminous Coated Pipe, Add</i>	59.02	
33 42 11 00-0663	LF		72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	410.76	69.28
			<i>For Bituminous Coated Pipe, Add</i>	63.06	
33 42 11 00-0664	LF		78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	442.35	75.77
			<i>For Bituminous Coated Pipe, Add</i>	67.18	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0665 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0666 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	156.94 22.61	18.19
33 42 11 00-0667 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	198.30 27.93	23.81
33 42 11 00-0668 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	228.98 32.86	28.15
33 42 11 00-0669 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	258.72 37.15	32.48
33 42 11 00-0670 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	305.92 44.34	36.80
33 42 11 00-0671 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	335.29 48.68	38.96
33 42 11 00-0672 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	405.74 59.06	47.63
33 42 11 00-0673 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	472.87 63.34	69.28
33 42 11 00-0674 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	509.57 67.67	75.77
33 42 11 00-0675 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	543.21 71.98	81.18
33 42 11 00-0676 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	576.77 76.28	86.59
33 42 11 00-0677 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	611.14 80.58	92.01
33 42 11 00-0678 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	645.97 84.40	97.42
33 42 11 00-0679 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0680 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)		
33 42 11 00-0681 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.40 2.76	6.07
33 42 11 00-0682 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.71 3.33	6.07
33 42 11 00-0683 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.63 3.66	7.58
33 42 11 00-0684 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	32.55 4.37	7.58
33 42 11 00-0685 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	37.40 4.59	9.10
33 42 11 00-0686 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	41.11 5.50	9.10
33 42 11 00-0687 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)		
33 42 11 00-0688 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.72 2.72	6.07
33 42 11 00-0689 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.96 3.25	6.07
33 42 11 00-0690 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.95 3.66	7.58
33 42 11 00-0691 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	33.06 4.31	7.58
33 42 11 00-0692 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	37.95 4.53	9.10
33 42 11 00-0693 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	41.76 5.43	9.10
33 42 11 00-0694 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0679)		
33 42 11 00-0695 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.06 3.84	
33 42 11 00-0696 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	22.58 5.08	
33 42 11 00-0697 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	27.69 6.23	
33 42 11 00-0698 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	61.52 8.49	
33 42 11 00-0699 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	11.23 1.94	
33 42 11 00-0700 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.64 2.91	
33 42 11 00-0701 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0702 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)		
33 42 11 00-0703 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	79.60	10.61
33 42 11 00-0704 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	95.34	11.12

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0705 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	111.56	12.13
33 42 11 00-0706 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	130.59	13.14
33 42 11 00-0707 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	146.05	14.15
33 42 11 00-0708 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	190.69	18.19
33 42 11 00-0709 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	244.10	23.81
33 42 11 00-0710 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	284.12	28.15
33 42 11 00-0711 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	318.73	32.48
33 42 11 00-0712 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42		
<i>11 00-0701)</i>		
33 42 11 00-0713 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	92.06	10.61
33 42 11 00-0714 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	110.77	11.12
33 42 11 00-0715 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	130.04	12.13
33 42 11 00-0716 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	152.00	13.14
33 42 11 00-0717 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	170.92	14.15
33 42 11 00-0718 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	221.21	18.19
33 42 11 00-0719 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	280.94	23.81
33 42 11 00-0720 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	326.40	28.15
33 42 11 00-0721 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	366.98	32.48
33 42 11 00-0722 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	446.23	36.80
33 42 11 00-0723 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42		
<i>11 00-0701)</i>		
33 42 11 00-0724 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	168.57	12.13
33 42 11 00-0725 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	196.99	13.14
33 42 11 00-0726 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	222.07	14.15
33 42 11 00-0727 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	285.11	18.19
33 42 11 00-0728 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	341.95	23.81
33 42 11 00-0729 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	415.79	28.15
33 42 11 00-0730 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	468.99	32.48
33 42 11 00-0731 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	562.62	36.80
33 42 11 00-0732 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	614.88	38.96
33 42 11 00-0733 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	753.98	47.63
33 42 11 00-0734 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42		
<i>11 00-0701)</i>		
33 42 11 00-0735 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	427.67	23.81
33 42 11 00-0736 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	497.22	28.15
33 42 11 00-0737 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	561.48	32.48
33 42 11 00-0738 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	666.24	36.80
33 42 11 00-0739 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	730.23	38.96
33 42 11 00-0740 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	880.67	47.63
33 42 11 00-0741 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	981.97	69.28
33 42 11 00-0742 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0743 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0744 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	314.84	23.81
33 42 11 00-0745 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	365.68	28.15
33 42 11 00-0746 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	410.17	32.48
33 42 11 00-0747 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	498.23	36.80
33 42 11 00-0748 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	542.46	38.96
33 42 11 00-0749 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	693.35	47.63
33 42 11 00-0750 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	776.91	69.28
33 42 11 00-0751 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	829.73	75.77
33 42 11 00-0752 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	879.74	81.18
33 42 11 00-0753 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	929.78	86.59
33 42 11 00-0754 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	980.44	92.01
33 42 11 00-0755 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,034.42	97.42
33 42 11 00-0756 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0757 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	564.85	36.80
33 42 11 00-0758 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	616.09	38.96
33 42 11 00-0759 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	774.45	47.63
33 42 11 00-0760 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	865.12	69.28
33 42 11 00-0761 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	925.15	75.77
33 42 11 00-0762 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	982.63	81.18
33 42 11 00-0763 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,039.67	86.59
33 42 11 00-0764 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,097.48	92.01
33 42 11 00-0765 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,158.72	97.42
33 42 11 00-0766 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,222.27	108.24
33 42 11 00-0767 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,284.52	119.07
33 42 11 00-0768 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0769 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	783.61	38.96
33 42 11 00-0770 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	960.81	47.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0771 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,067.63	69.28
33 42 11 00-0772 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,143.90	75.77
33 42 11 00-0773 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,217.53	81.18
33 42 11 00-0774 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,290.84	86.59
33 42 11 00-0775 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,365.02	92.01
33 42 11 00-0776 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,442.39	97.42
33 42 11 00-0777 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,521.96	108.24
33 42 11 00-0778 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,600.70	119.07
33 42 11 00-0779 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,678.79	129.89
33 42 11 00-0780 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0781 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,252.16	69.28
33 42 11 00-0782 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,343.46	75.77
33 42 11 00-0783 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,432.26	81.18
33 42 11 00-0784 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,520.65	86.59
33 42 11 00-0785 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,610.03	92.01
33 42 11 00-0786 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,702.54	97.42
33 42 11 00-0787 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,797.28	108.24
33 42 11 00-0788 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,891.07	119.07
33 42 11 00-0789 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,984.30	129.89
33 42 11 00-0790 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	2,079.11	140.72
33 42 11 00-0791 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	2,177.09	151.54
33 42 11 00-0792 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	2,278.43	162.37
33 42 11 00-0793 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0794 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0795 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	395.81	32.48
33 42 11 00-0796 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	482.43	36.80
33 42 11 00-0797 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	524.35	38.96
33 42 11 00-0798 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	659.69	47.63
33 42 11 00-0799 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	740.50	69.28
33 42 11 00-0800 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	790.45	75.77
33 42 11 00-0801 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	837.21	81.18
33 42 11 00-0802 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	883.83	86.59
33 42 11 00-0803 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	931.78	92.01
33 42 11 00-0804 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	983.75	97.42
33 42 11 00-0805 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0806 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	561.55	36.80
33 42 11 00-0807 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	612.47	38.96
33 42 11 00-0808 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	755.80	47.63
33 42 11 00-0809 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	844.35	69.28
33 42 11 00-0810 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	903.68	75.77
33 42 11 00-0811 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	959.26	81.18
33 42 11 00-0812 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,010.30	86.59
33 42 11 00-0813 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,071.09	92.01
33 42 11 00-0814 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,130.42	97.42
33 42 11 00-0815 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,191.72	108.24
33 42 11 00-0816 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,253.76	119.07
33 42 11 00-0817 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0818 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	789.10	38.96
33 42 11 00-0819 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	951.22	47.63
33 42 11 00-0820 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,058.23	69.28
33 42 11 00-0821 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,133.79	75.77
33 42 11 00-0822 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,205.93	81.18
33 42 11 00-0823 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,279.02	86.59
33 42 11 00-0824 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,352.43	92.01
33 42 11 00-0825 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,428.56	97.42
33 42 11 00-0826 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,507.90	108.24
33 42 11 00-0827 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,586.34	119.07
33 42 11 00-0828 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,663.36	129.89
33 42 11 00-0829 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0830 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,252.08	69.28
33 42 11 00-0831 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,345.68	75.77
33 42 11 00-0832 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,434.81	81.18
33 42 11 00-0833 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,523.14	86.59
33 42 11 00-0834 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,612.98	92.01

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0835	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,705.32	97.42
33 42 11 00-0836	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,800.52	108.24
33 42 11 00-0837	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,895.22	119.07
33 42 11 00-0838	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,988.24	129.89
33 42 11 00-0839	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,108.13	140.72
33 42 11 00-0840	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,212.76	151.54
33 42 11 00-0841	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,323.85	162.37
33 42 11 00-0842			Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0498)</small>		
33 42 11 00-0843			2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0844			16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0845	LF		17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	54.39	11.12
			<i>For Bituminous Coated Pipe, Add</i>	7.86	
			<i>For Bituminous Coated And 25% Paved, Add</i>	19.00	
			<i>For Smooth-Flo, Add</i>	31.34	
33 42 11 00-0846	LF		21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	61.36	12.13
			<i>For Bituminous Coated Pipe, Add</i>	9.38	
			<i>For Bituminous Coated And 25% Paved, Add</i>	22.69	
			<i>For Smooth-Flo, Add</i>	37.43	
33 42 11 00-0847	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	70.90	13.14
			<i>For Bituminous Coated Pipe, Add</i>	11.30	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.31	
			<i>For Smooth-Flo, Add</i>	45.05	
33 42 11 00-0848	LF		28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	80.01	14.15
			<i>For Bituminous Coated Pipe, Add</i>	13.02	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.47	
			<i>For Smooth-Flo, Add</i>	51.91	
33 42 11 00-0849	LF		35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	103.71	18.19
			<i>For Bituminous Coated Pipe, Add</i>	16.53	
			<i>For Bituminous Coated And 25% Paved, Add</i>	39.97	
			<i>For Smooth-Flo, Add</i>	65.93	
33 42 11 00-0850	LF		42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	136.13	23.81
			<i>For Bituminous Coated Pipe, Add</i>	21.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	51.54	
			<i>For Smooth-Flo, Add</i>	85.02	
33 42 11 00-0851			14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0852	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	60.76	11.12
			<i>For Bituminous Coated Pipe, Add</i>	8.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	19.08	
			<i>For Smooth-Flo, Add</i>	31.29	
33 42 11 00-0853	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	69.16	12.13
			<i>For Bituminous Coated Pipe, Add</i>	9.78	
			<i>For Bituminous Coated And 25% Paved, Add</i>	22.88	
			<i>For Smooth-Flo, Add</i>	37.53	
33 42 11 00-0854	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	79.59	13.14
			<i>For Bituminous Coated Pipe, Add</i>	11.62	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.19	
			<i>For Smooth-Flo, Add</i>	44.60	
33 42 11 00-0855	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	90.07	14.15
			<i>For Bituminous Coated Pipe, Add</i>	13.40	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.36	
			<i>For Smooth-Flo, Add</i>	51.43	
33 42 11 00-0856	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	116.27	18.19
			<i>For Bituminous Coated Pipe, Add</i>	16.97	
			<i>For Bituminous Coated And 25% Paved, Add</i>	39.71	
			<i>For Smooth-Flo, Add</i>	65.13	
33 42 11 00-0857	LF		42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	151.08	23.81
			<i>For Bituminous Coated Pipe, Add</i>	21.62	
			<i>For Bituminous Coated And 25% Paved, Add</i>	50.59	
			<i>For Smooth-Flo, Add</i>	82.97	
33 42 11 00-0858	LF		49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	174.91	28.15
			<i>For Bituminous Coated Pipe, Add</i>	25.76	
			<i>For Bituminous Coated And 25% Paved, Add</i>	60.26	
			<i>For Smooth-Flo, Add</i>	98.84	
33 42 11 00-0859			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0860	LF		21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	90.72	12.98
			<i>For Bituminous Coated Pipe, Add</i>	10.58	
			<i>For Bituminous Coated And 25% Paved, Add</i>	23.54	
			<i>For Smooth-Flo, Add</i>	36.20	
33 42 11 00-0861	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	104.43	14.07
			<i>For Bituminous Coated Pipe, Add</i>	12.55	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.92	
			<i>For Smooth-Flo, Add</i>	42.93	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0862	LF	28" x 20"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	117.81 14.39 32.02 49.24	15.15
33 42 11 00-0863	LF	35" x 24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	151.37 18.12 40.32 62.01	19.48
33 42 11 00-0864	LF	42" x 29"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	181.56 22.67 50.45 77.58	23.81
33 42 11 00-0865	LF	49" x 33"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	210.10 26.81 59.67 91.75	28.15
33 42 11 00-0866	LF	57" x 38"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	245.98 31.80 70.77 108.82	32.48
33 42 11 00-0867	LF	64" x 43"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	274.30 35.12 78.15 120.16	36.80
33 42 11 00-0868			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0863)</small>		
33 42 11 00-0869	LF	42" x 29"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	210.26 27.32 57.51 72.53	23.81
33 42 11 00-0870	LF	49" x 33"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	243.56 32.22 67.84 85.56	28.15
33 42 11 00-0871	LF	57" x 38"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	283.91 37.92 79.83 100.67	32.48
33 42 11 00-0872	LF	64" x 43"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	317.17 42.04 88.51 111.62	36.80
33 42 11 00-0873	LF	71" x 47"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	347.62 46.15 97.17 122.54	38.96
33 42 11 00-0874			3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0875			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0874)</small>		
33 42 11 00-0876	LF	60" x 46"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	273.89 40.51 123.16 137.75	36.80
33 42 11 00-0877	LF	66" x 51"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	299.39 44.34 134.78 150.74	38.96
33 42 11 00-0878	LF	73" x 55"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	371.68 55.68 169.28 189.33	47.63
33 42 11 00-0879	LF	81" x 59"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	436.25 59.70 181.48 202.97	69.28
33 42 11 00-0880	LF	87" x 63"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	471.11 63.91 194.30 217.31	75.77
33 42 11 00-0881	LF	95" x 67"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	503.13 68.15 207.18 231.72	81.18
33 42 11 00-0882	LF	103" x 71"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	535.03 72.37 220.00 246.05	86.59
33 42 11 00-0883	LF	112" x 75"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	567.67 76.57 232.78 260.34	92.01

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0884			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0874)</small>		
33 42 11 00-0885	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	365.36	38.96
			<i>For Bituminous Coated Pipe, Add</i>	57.53	
			<i>For Bituminous Coated And 25% Paved, Add</i>	150.73	
			<i>For Smooth-Flo, Add</i>	178.34	
33 42 11 00-0886	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	444.86	47.63
			<i>For Bituminous Coated Pipe, Add</i>	70.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	184.24	
			<i>For Smooth-Flo, Add</i>	217.99	
33 42 11 00-0887	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	515.92	69.28
			<i>For Bituminous Coated Pipe, Add</i>	75.63	
			<i>For Bituminous Coated And 25% Paved, Add</i>	198.16	
			<i>For Smooth-Flo, Add</i>	234.46	
33 42 11 00-0888	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	557.21	75.77
			<i>For Bituminous Coated Pipe, Add</i>	81.13	
			<i>For Bituminous Coated And 25% Paved, Add</i>	212.57	
			<i>For Smooth-Flo, Add</i>	251.52	
33 42 11 00-0889	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	595.66	81.18
			<i>For Bituminous Coated Pipe, Add</i>	86.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	227.04	
			<i>For Smooth-Flo, Add</i>	268.64	
33 42 11 00-0890	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	634.05	86.59
			<i>For Bituminous Coated Pipe, Add</i>	92.17	
			<i>For Bituminous Coated And 25% Paved, Add</i>	241.49	
			<i>For Smooth-Flo, Add</i>	285.73	
33 42 11 00-0891	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	673.12	92.01
			<i>For Bituminous Coated Pipe, Add</i>	97.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	255.87	
			<i>For Smooth-Flo, Add</i>	302.75	
33 42 11 00-0892	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	715.46	97.42
			<i>For Bituminous Coated Pipe, Add</i>	103.21	
			<i>For Bituminous Coated And 25% Paved, Add</i>	270.42	
			<i>For Smooth-Flo, Add</i>	319.96	
33 42 11 00-0893	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	760.12	108.24
			<i>For Bituminous Coated Pipe, Add</i>	108.73	
			<i>For Bituminous Coated And 25% Paved, Add</i>	284.86	
			<i>For Smooth-Flo, Add</i>	337.05	
33 42 11 00-0894	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	807.08	119.07
			<i>For Bituminous Coated Pipe, Add</i>	114.79	
			<i>For Bituminous Coated And 25% Paved, Add</i>	300.74	
			<i>For Smooth-Flo, Add</i>	355.84	
33 42 11 00-0895			10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0874)</small>		
33 42 11 00-0896	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	589.93	69.28
			<i>For Bituminous Coated Pipe, Add</i>	90.43	
			<i>For Bituminous Coated And 25% Paved, Add</i>	215.23	
			<i>For Smooth-Flo, Add</i>	233.77	
33 42 11 00-0897	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	637.35	75.77
			<i>For Bituminous Coated Pipe, Add</i>	97.16	
			<i>For Bituminous Coated And 25% Paved, Add</i>	231.25	
			<i>For Smooth-Flo, Add</i>	251.16	
33 42 11 00-0898	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	681.88	81.18
			<i>For Bituminous Coated Pipe, Add</i>	103.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	247.29	
			<i>For Smooth-Flo, Add</i>	268.59	
33 42 11 00-0899	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	726.23	86.59
			<i>For Bituminous Coated Pipe, Add</i>	110.61	
			<i>For Bituminous Coated And 25% Paved, Add</i>	263.25	
			<i>For Smooth-Flo, Add</i>	285.92	
33 42 11 00-0900	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	771.43	92.01
			<i>For Bituminous Coated Pipe, Add</i>	117.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	279.23	
			<i>For Smooth-Flo, Add</i>	303.28	
33 42 11 00-0901	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	819.78	97.42
			<i>For Bituminous Coated Pipe, Add</i>	124.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	295.30	
			<i>For Smooth-Flo, Add</i>	320.74	
33 42 11 00-0902	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	870.51	108.24
			<i>For Bituminous Coated Pipe, Add</i>	130.80	
			<i>For Bituminous Coated And 25% Paved, Add</i>	311.31	
			<i>For Smooth-Flo, Add</i>	338.13	
33 42 11 00-0903	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	923.06	119.07
			<i>For Bituminous Coated Pipe, Add</i>	137.98	
			<i>For Bituminous Coated And 25% Paved, Add</i>	328.40	
			<i>For Smooth-Flo, Add</i>	356.69	
33 42 11 00-0904	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	981.46	129.89
			<i>For Bituminous Coated Pipe, Add</i>	146.61	
			<i>For Bituminous Coated And 25% Paved, Add</i>	348.92	
			<i>For Smooth-Flo, Add</i>	378.98	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0905 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0906 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0907 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	523.18	69.28
For Bituminous Coated Pipe, Add	77.08	
For Bituminous Coated And 25% Paved, Add	188.08	
For Smooth-Flo, Add	239.35	
33 42 11 00-0908 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	563.76	75.77
For Bituminous Coated Pipe, Add	82.44	
For Bituminous Coated And 25% Paved, Add	201.16	
For Smooth-Flo, Add	255.99	
33 42 11 00-0909 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	601.08	81.18
For Bituminous Coated Pipe, Add	87.74	
For Bituminous Coated And 25% Paved, Add	214.09	
For Smooth-Flo, Add	272.44	
33 42 11 00-0910 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	638.40	86.59
For Bituminous Coated Pipe, Add	93.04	
For Bituminous Coated And 25% Paved, Add	227.02	
For Smooth-Flo, Add	288.90	
33 42 11 00-0911 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	676.69	92.01
For Bituminous Coated Pipe, Add	98.38	
For Bituminous Coated And 25% Paved, Add	240.04	
For Smooth-Flo, Add	305.46	
33 42 11 00-0912 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	718.44	97.42
For Bituminous Coated Pipe, Add	103.81	
For Bituminous Coated And 25% Paved, Add	253.29	
For Smooth-Flo, Add	322.32	
33 42 11 00-0913 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	762.50	108.24
For Bituminous Coated Pipe, Add	109.20	
For Bituminous Coated And 25% Paved, Add	266.45	
For Smooth-Flo, Add	339.07	
33 42 11 00-0914 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	812.97	119.07
For Bituminous Coated Pipe, Add	115.97	
For Bituminous Coated And 25% Paved, Add	282.96	
For Smooth-Flo, Add	360.07	
33 42 11 00-0915 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0916 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	605.11	69.28
For Bituminous Coated Pipe, Add	93.47	
For Bituminous Coated And 25% Paved, Add	211.24	
For Smooth-Flo, Add	229.47	
33 42 11 00-0917 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	652.24	75.77
For Bituminous Coated Pipe, Add	100.14	
For Bituminous Coated And 25% Paved, Add	226.32	
For Smooth-Flo, Add	245.84	
33 42 11 00-0918 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	686.23	81.18
For Bituminous Coated Pipe, Add	106.77	
For Bituminous Coated And 25% Paved, Add	241.30	
For Smooth-Flo, Add	262.13	
33 42 11 00-0919 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	740.40	86.59
For Bituminous Coated Pipe, Add	113.44	
For Bituminous Coated And 25% Paved, Add	256.38	
For Smooth-Flo, Add	278.50	
33 42 11 00-0920 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	784.23	92.01
For Bituminous Coated Pipe, Add	119.88	
For Bituminous Coated And 25% Paved, Add	270.94	
For Smooth-Flo, Add	294.32	
33 42 11 00-0921 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	833.53	97.42
For Bituminous Coated Pipe, Add	126.83	
For Bituminous Coated And 25% Paved, Add	286.63	
For Smooth-Flo, Add	311.36	
33 42 11 00-0922 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	884.38	108.24
For Bituminous Coated Pipe, Add	133.58	
For Bituminous Coated And 25% Paved, Add	301.89	
For Smooth-Flo, Add	327.93	
33 42 11 00-0923 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	941.58	119.07
For Bituminous Coated Pipe, Add	141.69	
For Bituminous Coated And 25% Paved, Add	320.21	
For Smooth-Flo, Add	347.84	
33 42 11 00-0924 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	995.16	129.89
For Bituminous Coated Pipe, Add	149.35	
For Bituminous Coated And 25% Paved, Add	337.52	
For Smooth-Flo, Add	366.64	
33 42 11 00-0925 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0926 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0927 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	95.44	11.12
33 42 11 00-0928 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	110.43	12.13

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0929	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	130.11	13.14
33 42 11 00-0930	LF		28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	148.33	14.15
33 42 11 00-0931	LF		35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	190.74	18.19
33 42 11 00-0932	LF		42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	249.19	23.81
33 42 11 00-0933			14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch		
33 42 11 00-0934	LF		<small>(33 42 11 00-0925)</small> 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	110.10	11.12
33 42 11 00-0935	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	128.33	12.13
33 42 11 00-0936	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	150.10	13.14
33 42 11 00-0937	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	171.56	14.15
33 42 11 00-0938	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	219.63	18.19
33 42 11 00-0939	LF		42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	283.54	23.81
33 42 11 00-0940	LF		49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	333.05	28.15
33 42 11 00-0941			12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch		
33 42 11 00-0942	LF		<small>(33 42 11 00-0925)</small> 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	172.22	12.13
33 42 11 00-0943	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	202.08	13.14
33 42 11 00-0944	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	230.43	14.15
33 42 11 00-0945	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	293.10	18.19
33 42 11 00-0946	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	372.28	23.81
33 42 11 00-0947	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	436.39	28.15
33 42 11 00-0948	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	516.17	32.48
33 42 11 00-0949	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	571.87	36.80
33 42 11 00-0950			10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch		
33 42 11 00-0951	LF		<small>(33 42 11 00-0925)</small> 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	441.90	23.81
33 42 11 00-0952	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	517.61	28.15
33 42 11 00-0953	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	608.24	32.48
33 42 11 00-0954	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	675.96	36.80
33 42 11 00-0955	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	740.71	38.96
33 42 11 00-0956			3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0957			14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0958	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	577.92	36.80
33 42 11 00-0959	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	631.47	38.96
33 42 11 00-0960	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	792.30	47.63
33 42 11 00-0961	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	886.55	69.28
33 42 11 00-0962	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	952.66	75.77
33 42 11 00-0963	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,016.04	81.18
33 42 11 00-0964	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,079.11	86.59
33 42 11 00-0965	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,143.11	92.01
33 42 11 00-0966			12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0967	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	799.31	38.96
33 42 11 00-0968	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	979.13	47.63
33 42 11 00-0969	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,089.90	69.28
33 42 11 00-0970	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,172.21	75.77
33 42 11 00-0971	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,251.88	81.18
33 42 11 00-0972	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,331.43	86.59
33 42 11 00-0973	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,411.56	92.01
33 42 11 00-0974	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,495.23	97.42
33 42 11 00-0975	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,581.05	108.24
33 42 11 00-0976	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,673.28	119.07
33 42 11 00-0977			10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0978	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,274.38	69.28
33 42 11 00-0979	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,371.94	75.77
33 42 11 00-0980	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,466.85	81.18
33 42 11 00-0981	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,561.22	86.59
33 42 11 00-0982	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,656.54	92.01
33 42 11 00-0983	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,755.29	97.42
33 42 11 00-0984	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,856.30	108.24
33 42 11 00-0985	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,962.39	119.07
33 42 11 00-0986	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	2,085.10	129.89
33 42 11 00-0987			125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0988			12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0989 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,073.31	69.28
33 42 11 00-0990 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,151.48	75.77
33 42 11 00-0991 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,225.97	81.18
33 42 11 00-0992 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,300.35	86.59
33 42 11 00-0993 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,376.01	92.01
33 42 11 00-0994 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,455.81	97.42
33 42 11 00-0995 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,537.64	108.24
33 42 11 00-0996 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,635.48	119.07
33 42 11 00-0997 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		
33 42 11 00-0998 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,270.06	69.28
33 42 11 00-0999 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,363.85	75.77
33 42 11 00-1000 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,454.31	81.18
33 42 11 00-1001 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,545.19	86.59
33 42 11 00-1002 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,634.28	92.01
33 42 11 00-1003 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,732.12	97.42
33 42 11 00-1004 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,830.31	108.24
33 42 11 00-1005 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,944.52	119.07
33 42 11 00-1006 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	2,051.45	129.89
33 42 11 00-1007 Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1008 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1009 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1010 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	50.99	10.61
For 1/2 Bituminous Coated And 25% Paved, Add	11.69	
33 42 11 00-1011 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	59.27	11.12
For 1/2 Bituminous Coated And 25% Paved, Add	14.72	
33 42 11 00-1012 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	67.85	12.13
For 1/2 Bituminous Coated And 25% Paved, Add	17.85	
33 42 11 00-1013 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	78.34	13.14
For 1/2 Bituminous Coated And 25% Paved, Add	21.34	
33 42 11 00-1014 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	87.21	14.15
For 1/2 Bituminous Coated And 25% Paved, Add	24.03	
33 42 11 00-1015 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	114.49	18.19
For 1/2 Bituminous Coated And 25% Paved, Add	31.18	
33 42 11 00-1016 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	147.86	23.81
For 1/2 Bituminous Coated And 25% Paved, Add	39.33	
33 42 11 00-1017 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	170.27	28.15
For 1/2 Bituminous Coated And 25% Paved, Add	46.52	
33 42 11 00-1018 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.20	32.48
For 1/2 Bituminous Coated And 25% Paved, Add	52.13	
33 42 11 00-1019 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1020 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	57.30	10.61
For 1/2 Bituminous Coated And 25% Paved, Add	11.10	
33 42 11 00-1021 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	67.07	11.12
For 1/2 Bituminous Coated And 25% Paved, Add	13.94	
33 42 11 00-1022 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	77.14	12.13
For 1/2 Bituminous Coated And 25% Paved, Add	16.84	
33 42 11 00-1023 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	89.12	13.14
For 1/2 Bituminous Coated And 25% Paved, Add	20.03	
33 42 11 00-1024 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	99.72	14.15
For 1/2 Bituminous Coated And 25% Paved, Add	22.68	
33 42 11 00-1025 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	129.79	18.19
For 1/2 Bituminous Coated And 25% Paved, Add	29.13	
33 42 11 00-1026 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	166.38	23.81
For 1/2 Bituminous Coated And 25% Paved, Add	36.50	
33 42 11 00-1027 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.58	28.15
For 1/2 Bituminous Coated And 25% Paved, Add	42.99	
33 42 11 00-1028 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	215.49	32.48
For 1/2 Bituminous Coated And 25% Paved, Add	48.30	
33 42 11 00-1029 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	259.83	36.80
For 1/2 Bituminous Coated And 25% Paved, Add	59.38	
33 42 11 00-1030 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1031 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	96.67	12.13
For 1/2 Bituminous Coated And 25% Paved, Add	15.70	
33 42 11 00-1032 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.93	13.14
For 1/2 Bituminous Coated And 25% Paved, Add	18.58	
33 42 11 00-1033 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	125.62	14.15
For 1/2 Bituminous Coated And 25% Paved, Add	21.05	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1034	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	162.12 26.83	18.19
33 42 11 00-1035	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	205.38 33.30	23.81
33 42 11 00-1036	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	236.78 39.06	28.15
33 42 11 00-1037	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	267.06 44.05	32.48
33 42 11 00-1038	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	318.72 53.19	36.80
33 42 11 00-1039	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	348.21 58.16	38.96
33 42 11 00-1040	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	425.93 71.52	47.63
33 42 11 00-1041			10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1042	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	240.45 36.47	23.81
33 42 11 00-1043	LF		42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	277.80 42.76	28.15
33 42 11 00-1044	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	313.62 48.28	32.48
33 42 11 00-1045	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.94 57.53	36.80
33 42 11 00-1046	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	406.33 63.10	38.96
33 42 11 00-1047	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	489.76 76.13	47.63
33 42 11 00-1048	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	562.84 81.62	69.28
33 42 11 00-1049			3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1050			16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1051	LF		36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	175.43 43.72	23.81
33 42 11 00-1052	LF		42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	201.82 51.35	28.15
33 42 11 00-1053	LF		48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	226.69 57.58	32.48
33 42 11 00-1054	LF		54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	272.28 70.34	36.80
33 42 11 00-1055	LF		60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	296.65 76.63	38.96
33 42 11 00-1056	LF		66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	374.48 98.43	47.63
33 42 11 00-1057	LF		72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	437.50 104.91	69.28
33 42 11 00-1058	LF		78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	469.86 111.41	75.77
33 42 11 00-1059	LF		84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	499.32 117.93	81.18
33 42 11 00-1060	LF		90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	528.78 124.46	86.59
33 42 11 00-1061	LF		96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	558.98 130.96	92.01
33 42 11 00-1062	LF		102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	592.32 137.52	97.42
33 42 11 00-1063			14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1064	LF		54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	303.95 60.95	36.80
33 42 11 00-1065	LF		60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	331.66 66.53	38.96
33 42 11 00-1066	LF		66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	413.01 83.77	47.63
33 42 11 00-1067	LF		72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	479.48 89.53	69.28
33 42 11 00-1068	LF		78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	515.23 95.29	75.77
33 42 11 00-1069	LF		84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	548.27 101.11	81.18
33 42 11 00-1070	LF		90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	581.06 106.86	86.59
33 42 11 00-1071	LF		96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	614.65 112.62	92.01
33 42 11 00-1072	LF		102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	651.39 118.42	97.42



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1073	LF		108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	690.57 124.21	108.24
33 42 11 00-1074	LF		114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	728.95 129.90	119.07
33 42 11 00-1075			12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1076	LF		60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	409.48 89.25	38.96
33 42 11 00-1077	LF		66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	499.16 109.19	47.63
33 42 11 00-1078	LF		72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	573.14 117.12	69.28
33 42 11 00-1079	LF		78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	616.51 125.08	75.77
33 42 11 00-1080	LF		84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	657.05 133.07	81.18
33 42 11 00-1081	LF		90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	697.47 141.03	86.59
33 42 11 00-1082	LF		96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	738.62 148.97	92.01
33 42 11 00-1083	LF		102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	782.92 156.97	97.42
33 42 11 00-1084	LF		108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	829.60 164.93	108.24
33 42 11 00-1085	LF		114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	875.61 172.82	119.07
33 42 11 00-1086	LF		120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	920.61 180.82	129.89
33 42 11 00-1087			10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1088	LF		72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	660.49 143.75	69.28
33 42 11 00-1089	LF		78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	710.89 153.82	75.77
33 42 11 00-1090	LF		84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	758.63 163.97	81.18
33 42 11 00-1091	LF		90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	806.13 174.06	86.59
33 42 11 00-1092	LF		96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	854.55 184.18	92.01
33 42 11 00-1093	LF		102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	906.06 194.33	97.42
33 42 11 00-1094	LF		108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	959.82 204.42	108.24
33 42 11 00-1095	LF		114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,012.97 214.45	119.07
33 42 11 00-1096	LF		120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,065.18 224.61	129.89
33 42 11 00-1097	LF		126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,119.23 234.68	140.72
33 42 11 00-1098	LF		132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,176.15 244.81	151.54
33 42 11 00-1099	LF		138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,236.40 254.96	162.37
33 42 11 00-1100			125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1101			16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1100)</small>		
33 42 11 00-1102	LF		48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	227.70 71.34	32.48
33 42 11 00-1103	LF		54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	274.12 87.41	36.80
33 42 11 00-1104	LF		60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	298.26 95.06	38.96
33 42 11 00-1105	LF		66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.91 119.67	47.63
33 42 11 00-1106	LF		72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	433.51 127.47	69.28
33 42 11 00-1107	LF		78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	465.39 135.27	75.77
33 42 11 00-1108	LF		84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	494.20 143.02	81.18
33 42 11 00-1109	LF		90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	522.89 150.72	86.59
33 42 11 00-1110	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	552.73 158.57	92.01
33 42 11 00-1111	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	585.95 166.60	97.42

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1112			14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1100)</small>		
33 42 11 00-1113	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	313.72	36.80
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	82.42	
33 42 11 00-1114	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	342.38	38.96
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.99	
33 42 11 00-1115	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	418.96	47.63
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	110.74	
33 42 11 00-1116	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	485.49	69.28
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	118.23	
33 42 11 00-1117	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	522.02	75.77
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	125.96	
33 42 11 00-1118	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	555.23	81.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	133.57	
33 42 11 00-1119	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	586.18	86.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.42	
33 42 11 00-1120	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	622.33	92.01
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	148.76	
33 42 11 00-1121	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	659.31	97.42
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	156.37	
33 42 11 00-1122	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	698.55	108.24
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	163.90	
33 42 11 00-1123	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	737.89	119.07
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	171.62	
33 42 11 00-1124			12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1100)</small>		
33 42 11 00-1125	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	424.85	38.96
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	99.28	
33 42 11 00-1126	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	509.88	47.63
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	119.15	
33 42 11 00-1127	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	585.05	69.28
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	127.92	
33 42 11 00-1128	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	629.19	75.77
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	136.61	
33 42 11 00-1129	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	670.21	81.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	145.24	
33 42 11 00-1130	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	711.64	86.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	154.00	
33 42 11 00-1131	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	753.56	92.01
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	162.66	
33 42 11 00-1132	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	798.46	97.42
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	171.33	
33 42 11 00-1133	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	846.10	108.24
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	180.07	
33 42 11 00-1134	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	893.11	119.07
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	188.75	
33 42 11 00-1135	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	938.77	129.89
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	197.44	
33 42 11 00-1136			10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1100)</small>		
33 42 11 00-1137	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	680.38	69.28
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	155.19	
33 42 11 00-1138	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	733.39	75.77
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	166.41	
33 42 11 00-1139	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	782.69	81.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	177.41	
33 42 11 00-1140	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	831.62	86.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	188.31	
33 42 11 00-1141	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	881.64	92.01
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	199.29	
33 42 11 00-1142	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	934.46	97.42
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	210.23	
33 42 11 00-1143	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	989.95	108.24
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	221.21	
33 42 11 00-1144	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,044.95	119.07
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	232.18	
33 42 11 00-1145	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,098.41	129.89
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	243.09	
33 42 11 00-1146	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,166.27	140.72
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	257.52	
33 42 11 00-1147	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,227.83	151.54
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	269.39	
33 42 11 00-1148	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,294.28	162.37
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	281.72	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 11 00-1149		Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>			
33 42 11 00-1150		16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>			
33 42 11 00-1151	LF	18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	78.51		12.13
33 42 11 00-1152	LF	21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	90.67		13.14
33 42 11 00-1153	LF	24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	101.80		14.15
33 42 11 00-1154	LF	30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	132.29		18.19
33 42 11 00-1155	LF	36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	168.76		23.81
33 42 11 00-1156	LF	42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	194.38		28.15
33 42 11 00-1157	LF	48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	219.24		32.48
33 42 11 00-1158	LF	54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	261.50		36.80
33 42 11 00-1159	LF	60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	285.81		38.96
33 42 11 00-1160		14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>			
33 42 11 00-1161	LF	18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	87.68		12.13
33 42 11 00-1162	LF	21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	101.39		13.14
33 42 11 00-1163	LF	24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	113.95		14.15
33 42 11 00-1164	LF	30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	147.47		18.19
33 42 11 00-1165	LF	36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	187.04		23.81
33 42 11 00-1166	LF	42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	215.76		28.15
33 42 11 00-1167	LF	48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	243.66		32.48
33 42 11 00-1168	LF	54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	288.95		36.80
33 42 11 00-1169	LF	60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	316.42		38.96
33 42 11 00-1170	LF	66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	385.44		47.63
33 42 11 00-1171	LF	72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	450.72		69.28
33 42 11 00-1172	LF	78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	485.58		75.77
33 42 11 00-1173		12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>			
33 42 11 00-1174	LF	30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	178.26		18.19
33 42 11 00-1175	LF	36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	223.90		23.81
33 42 11 00-1176	LF	42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	258.93		28.15
33 42 11 00-1177	LF	48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	292.90		32.48
33 42 11 00-1178	LF	54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	344.32		36.80
33 42 11 00-1179	LF	60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	378.04		38.96
33 42 11 00-1180	LF	66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	453.08		47.63
33 42 11 00-1181	LF	72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	524.43		69.28
33 42 11 00-1182	LF	78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	565.42		75.77
33 42 11 00-1183	LF	84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	603.29		81.18
33 42 11 00-1184	LF	90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	641.20		86.59
33 42 11 00-1185	LF	96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	679.73		92.01
33 42 11 00-1186	LF	102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	718.38		97.42
33 42 11 00-1187		Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-0498)</small>			
33 42 11 00-1188		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1187)</small>			
33 42 11 00-1189		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1188)</small>			
33 42 11 00-1190	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	61.41		11.12
		For 1/2 Bituminous Coated And 40% Paved, Add	19.02		
33 42 11 00-1191	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	69.76		12.13
		For 1/2 Bituminous Coated And 40% Paved, Add	22.72		
33 42 11 00-1192	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	80.96		13.14
		For 1/2 Bituminous Coated And 40% Paved, Add	27.33		
33 42 11 00-1193	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	91.62		14.15
		For 1/2 Bituminous Coated And 40% Paved, Add	31.50		
33 42 11 00-1194	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	118.48		18.19
		For 1/2 Bituminous Coated And 40% Paved, Add	40.01		
33 42 11 00-1195	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	155.19		23.81
		For 1/2 Bituminous Coated And 40% Paved, Add	51.61		
33 42 11 00-1196		14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1188)</small>			
33 42 11 00-1197	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	69.21		11.12
		For 1/2 Bituminous Coated And 40% Paved, Add	19.71		
33 42 11 00-1198	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	79.22		12.13
		For 1/2 Bituminous Coated And 40% Paved, Add	23.61		
33 42 11 00-1199	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	91.62		13.14
		For 1/2 Bituminous Coated And 40% Paved, Add	28.09		
33 42 11 00-1200	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	103.95		14.15
		For 1/2 Bituminous Coated And 40% Paved, Add	32.39		
33 42 11 00-1201	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	133.84		18.19
		For 1/2 Bituminous Coated And 40% Paved, Add	41.02		
33 42 11 00-1202	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	173.47		23.81
		For 1/2 Bituminous Coated And 40% Paved, Add	52.26		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1203 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	201.59 62.25	28.15
33 42 11 00-1204 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1188)</small>		
33 42 11 00-1205 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	98.52 21.63	12.13
33 42 11 00-1206 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	114.49 25.71	13.14
33 42 11 00-1207 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	129.85 29.51	14.15
33 42 11 00-1208 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	166.17 37.24	18.19
33 42 11 00-1209 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	212.53 46.82	23.81
33 42 11 00-1210 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	247.14 55.50	28.15
33 42 11 00-1211 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	290.82 66.08	32.48
33 42 11 00-1212 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	323.37 72.84	36.80
33 42 11 00-1213 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1188)</small>		
33 42 11 00-1214 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	247.60 49.27	23.81
33 42 11 00-1215 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	288.04 58.23	28.15
33 42 11 00-1216 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	337.20 68.76	32.48
33 42 11 00-1217 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	375.82 76.13	36.80
33 42 11 00-1218 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	411.63 83.48	38.96
33 42 11 00-1219 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1187)</small>		
33 42 11 00-1220 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1221 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	310.21 109.41	36.80
33 42 11 00-1222 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	339.10 119.72	38.96
33 42 11 00-1223 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	421.58 150.37	47.63
33 42 11 00-1224 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	489.72 161.20	69.28
33 42 11 00-1225 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	528.39 172.60	75.77
33 42 11 00-1226 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	564.17 184.02	81.18
33 42 11 00-1227 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	599.82 195.40	86.59
33 42 11 00-1228 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	636.32 206.79	92.01
33 42 11 00-1229 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1230 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	416.99 136.05	38.96
33 42 11 00-1231 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	507.92 166.28	47.63
33 42 11 00-1232 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	583.74 178.84	69.28
33 42 11 00-1233 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	629.91 191.83	75.77
33 42 11 00-1234 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	673.37 204.91	81.18
33 42 11 00-1235 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	716.70 217.95	86.59
33 42 11 00-1236 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	760.71 230.94	92.01
33 42 11 00-1237 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	807.99 244.04	97.42
33 42 11 00-1238 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	857.59 257.08	108.24
33 42 11 00-1239 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	910.02 271.43	119.07



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1240 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1241 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	671.03	69.28
For 1/2 Bituminous Coated And 40% Paved, Add	193.58	
33 42 11 00-1242 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	724.46	75.77
For 1/2 Bituminous Coated And 40% Paved, Add	207.97	
33 42 11 00-1243 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	775.07	81.18
For 1/2 Bituminous Coated And 40% Paved, Add	222.41	
33 42 11 00-1244 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	825.42	86.59
For 1/2 Bituminous Coated And 40% Paved, Add	236.76	
33 42 11 00-1245 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	881.46	92.01
For 1/2 Bituminous Coated And 40% Paved, Add	252.88	
33 42 11 00-1246 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	931.06	97.42
For 1/2 Bituminous Coated And 40% Paved, Add	265.59	
33 42 11 00-1247 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	987.87	108.24
For 1/2 Bituminous Coated And 40% Paved, Add	280.01	
33 42 11 00-1248 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	1,046.80	119.07
For 1/2 Bituminous Coated And 40% Paved, Add	295.36	
33 42 11 00-1249 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	1,112.93	129.89
For 1/2 Bituminous Coated And 40% Paved, Add	313.81	
33 42 11 00-1250 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1187)</small>		
33 42 11 00-1251 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1250)</small>		
33 42 11 00-1252 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	592.55	69.28
For 1/2 Bituminous Coated And 40% Paved, Add	176.00	
33 42 11 00-1253 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	637.95	75.77
For 1/2 Bituminous Coated And 40% Paved, Add	188.24	
33 42 11 00-1254 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	680.10	81.18
For 1/2 Bituminous Coated And 40% Paved, Add	200.36	
33 42 11 00-1255 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	722.18	86.59
For 1/2 Bituminous Coated And 40% Paved, Add	212.46	
33 42 11 00-1256 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	765.24	92.01
For 1/2 Bituminous Coated And 40% Paved, Add	224.63	
33 42 11 00-1257 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	811.86	97.42
For 1/2 Bituminous Coated And 40% Paved, Add	237.02	
33 42 11 00-1258 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	860.80	108.24
For 1/2 Bituminous Coated And 40% Paved, Add	249.35	
33 42 11 00-1259 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	917.35	119.07
For 1/2 Bituminous Coated And 40% Paved, Add	264.79	
33 42 11 00-1260 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1250)</small>		
33 42 11 00-1261 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	689.25	69.28
For 1/2 Bituminous Coated And 40% Paved, Add	195.23	
33 42 11 00-1262 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	742.39	75.77
For 1/2 Bituminous Coated And 40% Paved, Add	209.16	
33 42 11 00-1263 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	792.33	81.18
For 1/2 Bituminous Coated And 40% Paved, Add	223.01	
33 42 11 00-1264 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	842.51	86.59
For 1/2 Bituminous Coated And 40% Paved, Add	236.94	
33 42 11 00-1265 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	892.18	92.01
For 1/2 Bituminous Coated And 40% Paved, Add	250.41	
33 42 11 00-1266 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	947.68	97.42
For 1/2 Bituminous Coated And 40% Paved, Add	264.89	
33 42 11 00-1267 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	1,004.66	108.24
For 1/2 Bituminous Coated And 40% Paved, Add	279.01	
33 42 11 00-1268 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	1,069.12	119.07
For 1/2 Bituminous Coated And 40% Paved, Add	295.94	
33 42 11 00-1269 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	1,129.61	129.89
For 1/2 Bituminous Coated And 40% Paved, Add	311.94	
33 42 11 00-1270 Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1271 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1272 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1273 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	30.97	6.07
For Bituminous Coated Pipe, Add	3.62	
33 42 11 00-1274 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	40.30	7.58
For Bituminous Coated Pipe, Add	4.91	
33 42 11 00-1275 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	52.37	9.10
For Bituminous Coated Pipe, Add	6.47	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1276			16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1277	LF		6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	35.12 3.59	6.07
33 42 11 00-1278	LF		8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	46.17 4.91	7.58
33 42 11 00-1279	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	60.19 6.48	9.10
33 42 11 00-1280			2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1281			16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1282	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	60.53 7.12	10.61
33 42 11 00-1283	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	71.11 8.93	11.12
33 42 11 00-1284	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	82.35 10.86	12.13
33 42 11 00-1285	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	95.57 12.96	13.14
33 42 11 00-1286	LF		24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	107.15 14.69	14.15
33 42 11 00-1287			14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1288	LF		12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	69.42 6.96	10.61
33 42 11 00-1289	LF		15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	82.45 8.76	11.12
33 42 11 00-1290	LF		18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	95.93 10.62	12.13
33 42 11 00-1291	LF		21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	111.33 12.61	13.14
33 42 11 00-1292	LF		24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	125.23 14.33	14.15
33 42 11 00-1293	LF		30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	162.29 18.37	18.19
33 42 11 00-1294	LF		36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	205.89 22.84	23.81
33 42 11 00-1295			12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1296	LF		24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	159.80 13.60	14.15
33 42 11 00-1297	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	205.32 17.30	18.19
33 42 11 00-1298	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	257.58 21.33	23.81
33 42 11 00-1299	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	298.64 25.08	28.15
33 42 11 00-1300	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	337.83 28.39	32.48
33 42 11 00-1301	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	398.34 33.68	36.80
33 42 11 00-1302			10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1303	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	312.67 20.97	23.81
33 42 11 00-1304	LF		42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	362.82 24.62	28.15
33 42 11 00-1305	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	411.38 27.94	32.48
33 42 11 00-1306	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	481.09 32.78	36.80
33 42 11 00-1307	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	529.25 36.12	38.96
33 42 11 00-1308			3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1309			16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1310	LF		30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	159.48	18.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1311 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	202.38	23.81
33 42 11 00-1312 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	233.10	28.15
33 42 11 00-1313 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	264.09	32.48
33 42 11 00-1314 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	312.92	36.80
33 42 11 00-1315 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1316 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	182.14	18.19
33 42 11 00-1317 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	234.72	23.81
33 42 11 00-1318 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	270.64	28.15
33 42 11 00-1319 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	305.06	32.48
33 42 11 00-1320 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	360.91	36.80
33 42 11 00-1321 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	394.74	38.96
33 42 11 00-1322 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	480.81	47.63
33 42 11 00-1323 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	553.05	69.28
33 42 11 00-1324 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	594.64	75.77
33 42 11 00-1325 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1326 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	235.06	18.19
33 42 11 00-1327 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	294.23	23.81
33 42 11 00-1328 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	341.76	28.15
33 42 11 00-1329 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	386.62	32.48
33 42 11 00-1330 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	452.47	36.80
33 42 11 00-1331 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	496.13	38.96
33 42 11 00-1332 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	592.01	47.63
33 42 11 00-1333 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	674.32	69.28
33 42 11 00-1334 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	725.82	75.77
33 42 11 00-1335 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	774.54	81.18
33 42 11 00-1336 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	823.09	86.59
33 42 11 00-1337 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	872.43	92.01
33 42 11 00-1338 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1339 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	602.77	38.96
33 42 11 00-1340 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	704.81	47.63
33 42 11 00-1341 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	797.25	69.28
33 42 11 00-1342 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	858.88	75.77
33 42 11 00-1343 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	917.57	81.18
33 42 11 00-1344 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	976.22	86.59
33 42 11 00-1345 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,035.61	92.01
33 42 11 00-1346 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,098.22	97.42
33 42 11 00-1347 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,163.16	108.24
33 42 11 00-1348 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1270)</small>		
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1349 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1350 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	112.87	12.13
33 42 11 00-1351 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	121.33	13.14
33 42 11 00-1352 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	147.71	14.15
33 42 11 00-1353 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	170.60	16.17
33 42 11 00-1354 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	190.52	18.19
33 42 11 00-1355 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	213.93	20.22
33 42 11 00-1356 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1357 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	132.04	12.13
33 42 11 00-1358 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	153.49	13.14
33 42 11 00-1359 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	173.49	14.15
33 42 11 00-1360 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	199.53	16.17
33 42 11 00-1361 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	222.62	18.19
33 42 11 00-1362 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	249.29	20.22
33 42 11 00-1363 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	278.74	23.81
33 42 11 00-1364 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	323.29	28.15
33 42 11 00-1365 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	365.90	32.48
33 42 11 00-1366 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1367 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	285.38	18.19
33 42 11 00-1368 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	318.19	20.22

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1369 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	354.00	23.81
33 42 11 00-1370 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	411.18	28.15
33 42 11 00-1371 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	466.35	32.48
33 42 11 00-1372 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	651.98	36.80
33 42 11 00-1373 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	717.92	38.96
33 42 11 00-1374 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1375 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	671.00	32.48
33 42 11 00-1376 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	778.16	36.80
33 42 11 00-1377 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	858.26	38.96
33 42 11 00-1378 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	995.75	47.63
33 42 11 00-1379 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,112.36	69.28
33 42 11 00-1380 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,199.32	75.77
33 42 11 00-1381 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,282.55	81.18
33 42 11 00-1382 Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0498)</small>		
33 42 11 00-1383 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1384 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1385 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	75.16	11.12
<i>For Bituminous Coated Pipe, Add</i>	8.95	
33 42 11 00-1386 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	86.18	12.13
<i>For Bituminous Coated Pipe, Add</i>	10.69	
33 42 11 00-1387 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	99.94	13.14
<i>For Bituminous Coated Pipe, Add</i>	12.72	
33 42 11 00-1388 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1389 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	86.52	11.12
<i>For Bituminous Coated Pipe, Add</i>	8.92	
33 42 11 00-1390 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	97.09	12.13
<i>For Bituminous Coated Pipe, Add</i>	10.28	
33 42 11 00-1391 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	115.69	13.14
<i>For Bituminous Coated Pipe, Add</i>	12.62	
33 42 11 00-1392 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	131.16	14.15
<i>For Bituminous Coated Pipe, Add</i>	14.48	
33 42 11 00-1393 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	168.18	18.19
<i>For Bituminous Coated Pipe, Add</i>	18.32	
33 42 11 00-1394 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1395 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	165.75	14.15
<i>For Bituminous Coated Pipe, Add</i>	13.80	
33 42 11 00-1396 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	211.32	18.19
<i>For Bituminous Coated Pipe, Add</i>	17.40	
33 42 11 00-1397 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	267.73	23.81
<i>For Bituminous Coated Pipe, Add</i>	21.72	
33 42 11 00-1398 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	312.01	28.15
<i>For Bituminous Coated Pipe, Add</i>	25.69	
33 42 11 00-1399 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1400 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	322.74	23.81
<i>For Bituminous Coated Pipe, Add</i>	20.96	
33 42 11 00-1401 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	376.29	28.15
<i>For Bituminous Coated Pipe, Add</i>	24.73	
33 42 11 00-1402 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	438.44	32.48
<i>For Bituminous Coated Pipe, Add</i>	28.97	
33 42 11 00-1403 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	489.98	36.80
<i>For Bituminous Coated Pipe, Add</i>	32.24	
33 42 11 00-1404 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1405 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1406 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	369.81	36.80
33 42 11 00-1407 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	405.08	38.96
33 42 11 00-1408 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	493.59	47.63
33 42 11 00-1409 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1410 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	461.37	36.80
33 42 11 00-1411 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	506.47	38.96
33 42 11 00-1412 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	604.34	47.63
33 42 11 00-1413 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	687.58	69.28



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 11 00-1414	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		740.02	75.77
33 42 11 00-1415	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		789.68	81.18
33 42 11 00-1416		10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00- 1404)			
33 42 11 00-1417	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		612.95	38.96
33 42 11 00-1418	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		716.68	47.63
33 42 11 00-1419	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		810.03	69.28
33 42 11 00-1420	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		872.60	75.77
33 42 11 00-1421	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		932.23	81.18
33 42 11 00-1422	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....		991.78	86.59
33 42 11 00-1423		Corrugated Steel Pipe Fittings (33 42 11 00-0498)			
		Note: Equivalent pipe-arch sizes are approximate.			
33 42 11 00-1424		Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00- 1423)			
		Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.			
33 42 11 00-1425	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)		88.31	
33 42 11 00-1426	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)		110.75	
33 42 11 00-1427	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)		133.19	
33 42 11 00-1428	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)		157.05	
33 42 11 00-1429	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....		190.67	
33 42 11 00-1430	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....		224.31	
33 42 11 00-1431	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....		257.96	
33 42 11 00-1432	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....		291.60	
33 42 11 00-1433	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)		379.93	
33 42 11 00-1434	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)		452.82	
33 42 11 00-1435	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....		525.74	
33 42 11 00-1436	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....		679.95	
33 42 11 00-1437	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....		766.88	
33 42 11 00-1438	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....		856.61	
33 42 11 00-1439	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....		949.14	
33 42 11 00-1440	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....		1,156.62	
33 42 11 00-1441	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....		1,261.76	
33 42 11 00-1442	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....		1,369.71	
33 42 11 00-1443	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....		1,680.95	
33 42 11 00-1444	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....		1,804.34	
33 42 11 00-1445	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....		1,929.11	
33 42 11 00-1446	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....		2,053.87	
33 42 11 00-1447	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....		2,177.25	
33 42 11 00-1448	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....		2,302.03	
33 42 11 00-1449	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)		2,433.58	
33 42 11 00-1450	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)		2,572.66	
33 42 11 00-1451	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)		2,719.65	
33 42 11 00-1452		Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1423)			
		Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.			
33 42 11 00-1453	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....		114.96	
33 42 11 00-1454	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....		147.21	
33 42 11 00-1455	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....		179.43	
33 42 11 00-1456	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....		211.70	
33 42 11 00-1457	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)		257.96	
33 42 11 00-1458	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....		305.62	
33 42 11 00-1459	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....		353.31	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1460 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	400.94	
33 42 11 00-1461 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	525.74	
33 42 11 00-1462 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	626.68	
33 42 11 00-1463 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	729.01	
33 42 11 00-1464 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	946.32	
33 42 11 00-1465 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,065.49	
33 42 11 00-1466 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,188.85	
33 42 11 00-1467 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,315.03	
33 42 11 00-1468 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,603.83	
33 42 11 00-1469 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,746.85	
33 42 11 00-1470 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,892.65	
33 42 11 00-1471 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,328.63	
33 42 11 00-1472 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,495.49	
33 42 11 00-1473 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,662.32	
33 42 11 00-1474 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,830.54	
33 42 11 00-1475 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,998.78	
33 42 11 00-1476 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,165.59	
33 42 11 00-1477 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,341.72	
33 42 11 00-1478 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,527.61	
33 42 11 00-1479 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,723.84	
33 42 11 00-1480 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1423)		
Note: Applied to pipe tasks.		
33 42 11 00-1481 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	44.24	
33 42 11 00-1482 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	55.65	
33 42 11 00-1483 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	70.00	
33 42 11 00-1484 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	85.71	
33 42 11 00-1485 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	108.47	
33 42 11 00-1486 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	132.81	
33 42 11 00-1487 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	155.56	
33 42 11 00-1488 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	180.74	
33 42 11 00-1489 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	222.00	
33 42 11 00-1490 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	264.69	
33 42 11 00-1491 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	315.82	
33 42 11 00-1492 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	388.49	
33 42 11 00-1493 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	439.73	
33 42 11 00-1494 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	495.21	
33 42 11 00-1495 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	600.54	
33 42 11 00-1496 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	665.98	
33 42 11 00-1497 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	812.56	
33 42 11 00-1498 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	885.16	
33 42 11 00-1499 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	962.03	
33 42 11 00-1500 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,037.40	
33 42 11 00-1501 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,114.25	
33 42 11 00-1502 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,192.50	
33 42 11 00-1503 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,269.38	
33 42 11 00-1504 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,346.20	
33 42 11 00-1505 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,427.68	
33 42 11 00-1506 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,514.07	
33 42 11 00-1507 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,605.71	
33 42 11 00-1508 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1423)		
33 42 11 00-1509 EA 6" Coupling Band, Corrugated Metal Pipe Fitting.....	20.72	
For Bituminous Coated, Add	6.01	
33 42 11 00-1510 EA 8" Coupling Band, Corrugated Metal Pipe Fitting.....	27.51	
For Bituminous Coated, Add	7.98	
33 42 11 00-1511 EA 10" Coupling Band, Corrugated Metal Pipe Fitting.....	34.65	
For Bituminous Coated, Add	10.05	
33 42 11 00-1512 EA 12" Coupling Band, Corrugated Metal Pipe Fitting.....	57.52	
For Bituminous Coated, Add	16.68	
33 42 11 00-1513 EA 15" Coupling Band, Corrugated Metal Pipe Fitting.....	72.52	
For Bituminous Coated, Add	21.03	
33 42 11 00-1514 EA 18" Coupling Band, Corrugated Metal Pipe Fitting.....	106.40	
For Bituminous Coated, Add	30.86	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1515	EA		21" Coupling Band, Corrugated Metal Pipe Fitting	126.29	
			<i>For Bituminous Coated, Add</i>	36.62	
33 42 11 00-1516	EA		24" Coupling Band, Corrugated Metal Pipe Fitting	143.20	
			<i>For Bituminous Coated, Add</i>	41.53	
33 42 11 00-1517	EA		30" Coupling Band, Corrugated Metal Pipe Fitting	247.82	
			<i>For Bituminous Coated, Add</i>	71.87	
33 42 11 00-1518	EA		36" Coupling Band, Corrugated Metal Pipe Fitting	396.50	
			<i>For Bituminous Coated, Add</i>	95.16	
33 42 11 00-1519	EA		42" Coupling Band, Corrugated Metal Pipe Fitting	465.86	
			<i>For Bituminous Coated, Add</i>	111.81	
33 42 11 00-1520	EA		48" Coupling Band, Corrugated Metal Pipe Fitting	522.01	
			<i>For Bituminous Coated, Add</i>	125.28	
33 42 11 00-1521	EA		54" Coupling Band, Corrugated Metal Pipe Fitting	740.30	
			<i>For Bituminous Coated, Add</i>	177.67	
33 42 11 00-1522	EA		60" Coupling Band, Corrugated Metal Pipe Fitting	1,058.85	
			<i>For Bituminous Coated, Add</i>	190.59	
33 42 11 00-1523	EA		66" Coupling Band, Corrugated Metal Pipe Fitting	1,301.31	
			<i>For Bituminous Coated, Add</i>	234.24	
33 42 11 00-1524	EA		72" Coupling Band, Corrugated Metal Pipe Fitting	1,671.61	
			<i>For Bituminous Coated, Add</i>	234.03	
33 42 11 00-1525	EA		78" Coupling Band, Corrugated Metal Pipe Fitting	1,787.90	
			<i>For Bituminous Coated, Add</i>	250.31	
33 42 11 00-1526	EA		84" Coupling Band, Corrugated Metal Pipe Fitting	1,904.84	
			<i>For Bituminous Coated, Add</i>	266.68	
33 42 11 00-1527	EA		90" Coupling Band, Corrugated Metal Pipe Fitting	2,021.19	
			<i>For Bituminous Coated, Add</i>	282.97	
33 42 11 00-1528	EA		96" Coupling Band, Corrugated Metal Pipe Fitting	2,137.83	
			<i>For Bituminous Coated, Add</i>	299.30	
33 42 11 00-1529	EA		102" Coupling Band, Corrugated Metal Pipe Fitting	2,254.77	
			<i>For Bituminous Coated, Add</i>	315.67	
33 42 11 00-1530	EA		108" Coupling Band, Corrugated Metal Pipe Fitting	2,371.18	
			<i>For Bituminous Coated, Add</i>	331.97	
33 42 11 00-1531	EA		114" Coupling Band, Corrugated Metal Pipe Fitting	2,808.41	
			<i>For Bituminous Coated, Add</i>	337.01	
33 42 11 00-1532	EA		120" Coupling Band, Corrugated Metal Pipe Fitting	2,603.82	
			<i>For Bituminous Coated, Add</i>	312.46	
33 42 11 00-1533	EA		126" Coupling Band, Corrugated Metal Pipe Fitting	2,719.86	
			<i>For Bituminous Coated, Add</i>	326.38	
33 42 11 00-1534	EA		132" Coupling Band, Corrugated Metal Pipe Fitting	2,836.75	
			<i>For Bituminous Coated, Add</i>	340.41	
33 42 11 00-1535	EA		138" Coupling Band, Corrugated Metal Pipe Fitting	2,953.75	
			<i>For Bituminous Coated, Add</i>	354.45	

33 42 13 Stormwater Culverts (33 42)

33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)

33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0902 for crane lifting equipment.

33 42 13 13-0002	LF		3' x 3' Precast Reinforced Concrete Box Culvert	432.64	54.13
			<i>For Each LF Of Cut-Off Section, Add</i>	17.31	
33 42 13 13-0003	LF		4' x 2' Precast Reinforced Concrete Box Culvert	487.41	54.13
			<i>For Each LF Of Cut-Off Section, Add</i>	19.50	
33 42 13 13-0004	LF		4' x 3' Precast Reinforced Concrete Box Culvert	575.88	54.13
			<i>For Each LF Of Cut-Off Section, Add</i>	23.04	
33 42 13 13-0005	LF		5' x 3' Precast Reinforced Concrete Box Culvert	691.42	67.66
			<i>For Each LF Of Cut-Off Section, Add</i>	27.66	
33 42 13 13-0006	LF		5' x 4' Precast Reinforced Concrete Box Culvert	708.27	67.66
			<i>For Each LF Of Cut-Off Section, Add</i>	28.33	
33 42 13 13-0007	LF		5' x 5' Precast Reinforced Concrete Box Culvert	716.69	67.66
			<i>For Each LF Of Cut-Off Section, Add</i>	28.67	
33 42 13 13-0008	LF		6' x 3' Precast Reinforced Concrete Box Culvert	738.96	70.36
			<i>For Each LF Of Cut-Off Section, Add</i>	29.56	
33 42 13 13-0009	LF		6' x 4' Precast Reinforced Concrete Box Culvert	743.17	70.36
			<i>For Each LF Of Cut-Off Section, Add</i>	29.73	
33 42 13 13-0010	LF		6' x 6' Precast Reinforced Concrete Box Culvert	819.00	70.36
			<i>For Each LF Of Cut-Off Section, Add</i>	32.76	
33 42 13 13-0011	LF		7' x 4' Precast Reinforced Concrete Box Culvert	840.65	81.18
			<i>For Each LF Of Cut-Off Section, Add</i>	33.63	
33 42 13 13-0012	LF		7' x 6' Precast Reinforced Concrete Box Culvert	899.10	110.41
			<i>For Each LF Of Cut-Off Section, Add</i>	35.96	
33 42 13 13-0013	LF		8' x 2' Precast Reinforced Concrete Box Culvert	823.22	70.36
			<i>For Each LF Of Cut-Off Section, Add</i>	32.93	
33 42 13 13-0014	LF		8' x 3' Precast Reinforced Concrete Box Culvert	844.87	81.18
			<i>For Each LF Of Cut-Off Section, Add</i>	33.79	
33 42 13 13-0015	LF		8' x 4' Precast Reinforced Concrete Box Culvert	857.50	81.18
			<i>For Each LF Of Cut-Off Section, Add</i>	34.30	
33 42 13 13-0016	LF		8' x 5' Precast Reinforced Concrete Box Culvert	1,034.63	108.24
			<i>For Each LF Of Cut-Off Section, Add</i>	41.39	
33 42 13 13-0017	LF		8' x 6' Precast Reinforced Concrete Box Culvert	1,038.01	108.24
			<i>For Each LF Of Cut-Off Section, Add</i>	41.52	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,148.58	135.30
For Each LF Of Cut-Off Section, Add	45.94	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,143.33	108.24
For Each LF Of Cut-Off Section, Add	45.73	
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,210.09	135.30
For Each LF Of Cut-Off Section, Add	48.40	
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,214.30	135.30
For Each LF Of Cut-Off Section, Add	48.57	
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,475.51	135.30
For Each LF Of Cut-Off Section, Add	59.02	
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,546.48	162.37
For Each LF Of Cut-Off Section, Add	61.86	
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,563.33	162.37
For Each LF Of Cut-Off Section, Add	62.53	
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,567.55	162.37
For Each LF Of Cut-Off Section, Add	62.70	
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,573.44	162.37
For Each LF Of Cut-Off Section, Add	62.94	
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,634.30	189.43
For Each LF Of Cut-Off Section, Add	65.37	
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,634.30	189.43
For Each LF Of Cut-Off Section, Add	65.37	
33 42 13 13-0029 LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,634.30	189.43
For Each LF Of Cut-Off Section, Add	65.37	
33 42 13 13-0030 LF 12' x 8' Precast Reinforced Concrete Box Culvert	1,634.30	189.43
For Each LF Of Cut-Off Section, Add	65.37	
33 42 13 13-0031 LF 16' x 10' Precast Reinforced Concrete Box Culvert	2,379.36	216.49
For Each LF Of Cut-Off Section, Add	95.17	
33 42 13 13-0032 LF 24' x 10' Precast Reinforced Concrete Box Culvert	3,306.22	216.49
For Each LF Of Cut-Off Section, Add	132.25	
33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways <small>(33 42 13 13)</small>		
Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0902 for crane lifting equipment.		
33 42 13 13-0034 LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,077.65	54.13
For Each LF Of Cut-Off Section, Add	43.11	
33 42 13 13-0035 LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,158.58	54.13
For Each LF Of Cut-Off Section, Add	46.34	
33 42 13 13-0036 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,301.82	54.13
For Each LF Of Cut-Off Section, Add	52.07	
33 42 13 13-0037 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,472.08	67.66
For Each LF Of Cut-Off Section, Add	58.88	
33 42 13 13-0038 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,615.31	67.66
For Each LF Of Cut-Off Section, Add	64.61	
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,758.54	67.66
For Each LF Of Cut-Off Section, Add	70.34	
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,620.72	70.36
For Each LF Of Cut-Off Section, Add	64.83	
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,763.95	70.36
For Each LF Of Cut-Off Section, Add	70.56	
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,050.42	70.36
For Each LF Of Cut-Off Section, Add	82.02	
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,928.84	81.18
For Each LF Of Cut-Off Section, Add	77.15	
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,273.72	110.41
For Each LF Of Cut-Off Section, Add	90.95	
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,763.95	70.36
For Each LF Of Cut-Off Section, Add	70.56	
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,928.84	81.18
For Each LF Of Cut-Off Section, Add	77.15	
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,072.07	81.18
For Each LF Of Cut-Off Section, Add	82.88	
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,269.38	108.24
For Each LF Of Cut-Off Section, Add	90.78	
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,412.61	108.24
For Each LF Of Cut-Off Section, Add	96.50	
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,753.20	135.30
For Each LF Of Cut-Off Section, Add	110.13	
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,436.06	108.24
For Each LF Of Cut-Off Section, Add	97.44	
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,796.31	135.30
For Each LF Of Cut-Off Section, Add	111.85	
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,765.14	135.30
For Each LF Of Cut-Off Section, Add	110.61	
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,935.22	135.30
For Each LF Of Cut-Off Section, Add	117.41	
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	3,159.41	162.37
For Each LF Of Cut-Off Section, Add	126.38	
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,329.49	162.37
For Each LF Of Cut-Off Section, Add	133.18	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,499.59 139.98	162.37
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,669.67 146.79	162.37
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,665.91 146.64	189.43
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,859.24 154.37	189.43
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,245.96 169.84	189.43
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,632.68 185.31	189.43
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	5,546.17 221.85	216.49
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	7,007.08 280.28	216.49

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)

33 42 23 00-0001 Headwalls (33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,675.46	709.50
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,107.23	756.80
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,759.83	991.31
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,341.26	1,419.00
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,045.95	1,892.00
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,205.49	2,493.87
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,861.41	3,439.97
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,730.23	4,054.24
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,102.81	4,935.70
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	16,902.10	5,974.72

33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)

33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	971.36	181.93
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	1,001.68	192.04
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	1,101.21	218.32
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	1,218.67	232.47
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,656.57	272.90
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,855.62	283.01
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	2,455.19	334.04
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	2,716.10	368.03
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	3,001.89	389.68
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	3,414.35	389.68
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	4,152.66	487.10
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	5,925.91	584.52

33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)

33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	5,984.47	1,928.90
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	6,309.20	2,143.23
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	6,850.41	2,500.43
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	7,391.64	2,857.64
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	7,391.64	2,857.64
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	7,608.12	3,000.52
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	13,776.43	3,071.97
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	14,101.16	3,286.28
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		

33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)

33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,484.29	757.71
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33 42 26 End Sections for Stormwater Piping (33 42)

33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)

33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26	16-0002		Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26	16-0003		Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
			Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26	16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	351.46	70.75
33 42 26	16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	414.19	75.81
33 42 26	16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	491.23	80.86
33 42 26	16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	604.41	88.44
33 42 26	16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	671.48	96.03
33 42 26	16-0009		Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
			Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26	16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,128.92	108.65
33 42 26	16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,474.85	129.89
33 42 26	16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,316.53	151.54
33 42 26	16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,841.65	173.19
33 42 26	16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	3,375.11	216.49
33 42 26	16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	3,934.74	259.79
33 42 26	16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
			Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26	16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	370.21	70.75
33 42 26	16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	433.49	75.81
33 42 26	16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	520.88	80.86
33 42 26	16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	640.01	88.44
33 42 26	16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	711.85	96.03
33 42 26	16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,252.89	108.65
33 42 26	16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,631.84	129.89
33 42 26	16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,652.65	151.54
33 42 26	16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,275.42	173.19
33 42 26	16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,813.76	216.49
33 42 26	16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,324.06	259.79
33 42 26	16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,949.97	389.68
33 42 26	16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	6,900.80	519.57
33 42 26	16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	7,525.06	557.46
33 42 26	16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	8,165.49	595.34
33 42 26	16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)		
			Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26	16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section.....	49.31	
33 42 26	16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section.....	55.45	
33 42 26	16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section.....	62.96	
33 42 26	16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section.....	68.51	
33 42 26	16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section.....	76.91	
33 42 26	16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section.....	137.28	
33 42 26	16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section.....	147.64	
33 42 26	16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section.....	205.22	
33 42 26	16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section.....	218.99	
33 42 26	16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section.....	268.39	
33 42 26	16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section.....	273.97	
33 42 26	16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section.....	290.32	
33 42 26	16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section.....	323.64	
33 42 26	16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section.....	362.52	
33 42 26	16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	369.93	
33 42 26	16-0048		Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26	16-0049		Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
			Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26	16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	414.19	75.81
33 42 26	16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	491.23	80.86
33 42 26	16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	604.40	88.44
33 42 26	16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	671.48	96.03
33 42 26	16-0054		Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
			Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26	16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	398.00	75.81
33 42 26	16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	461.28	80.86
33 42 26	16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	518.67	88.44
33 42 26	16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	589.61	96.03
33 42 26	16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	895.51	108.65
33 42 26	16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,337.64	129.89
33 42 26	16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	2,132.00	151.54
33 42 26	16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	2,718.69	173.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 26 16-0063	Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections <small>(33 42 26 16-0048)</small>		
<small>Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.</small>			
33 42 26 16-0064	EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	406.22	75.81
33 42 26 16-0065	EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	479.14	80.86
33 42 26 16-0066	EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	546.59	88.44
33 42 26 16-0067	EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	622.71	96.03
33 42 26 16-0068	EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	951.78	108.65
33 42 26 16-0069	EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,414.39	129.89
33 42 26 16-0070	EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,254.78	151.54
33 42 26 16-0071	EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,859.99	173.19
33 42 26 16-0072	EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,433.16	216.49
33 42 26 16-0073	EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,537.53	259.79
33 42 26 16-0074	EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	6,306.49	389.68
33 42 26 16-0075	EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	6,896.03	519.57

33 42 26 16-0076	Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0048)</small>		
33 42 26 16-0077	EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	55.45	
33 42 26 16-0078	EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	62.96	
33 42 26 16-0079	EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	68.51	
33 42 26 16-0080	EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	76.91	
33 42 26 16-0081	EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	137.28	
33 42 26 16-0082	EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	147.64	
33 42 26 16-0083	EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	205.22	
33 42 26 16-0084	EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	228.28	
33 42 26 16-0085	EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	268.39	
33 42 26 16-0086	EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	277.67	
33 42 26 16-0087	EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	320.45	
33 42 26 16-0088	EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	356.80	

33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)

33 42 26 16-0090	Corrugated Aluminum Pipe End Sections <small>(33 42 26 16-0089)</small>		
33 42 26 16-0091	EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	569.46	70.75
33 42 26 16-0092	EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	662.42	75.81
33 42 26 16-0093	EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	795.01	80.86
33 42 26 16-0094	EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	998.23	88.44
33 42 26 16-0095	EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,324.62	96.03
33 42 26 16-0096	EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,024.26	108.65
33 42 26 16-0097	EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,773.51	129.89
33 42 26 16-0098	EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,486.78	129.89
33 42 26 16-0099	EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	4,462.42	151.54
33 42 26 16-0100	EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	6,415.62	173.19
33 42 26 16-0101	EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	7,079.90	216.49
33 42 26 16-0102	EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,577.06	259.79
33 42 26 16-0103	EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,744.70	389.68
33 42 26 16-0104	EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,498.55	519.57
33 42 26 16-0105	EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	13,661.32	557.46
33 42 26 16-0106	EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	14,407.51	595.34
33 42 26 16-0107	EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	19,888.64	649.47
33 42 26 16-0108	EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	22,034.10	703.58

33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)

33 42 26 16-0110	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	89.18	
33 42 26 16-0111	EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	94.88	
33 42 26 16-0112	EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	103.58	
33 42 26 16-0113	EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	117.23	
33 42 26 16-0114	EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	124.01	
33 42 26 16-0115	EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	159.80	
33 42 26 16-0116	EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	188.05	
33 42 26 16-0117	EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	199.96	
33 42 26 16-0118	EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	219.51	
33 42 26 16-0119	EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	248.18	
33 42 26 16-0120	EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	294.67	
33 42 26 16-0121	EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	424.19	
33 42 26 16-0122	EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	451.86	
33 42 26 16-0123	EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	562.18	
33 42 26 16-0124	EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	607.07	
33 42 26 16-0125	EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	646.39	
33 42 26 16-0126	EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	688.00	
33 42 26 16-0127	EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	729.75	

33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)

33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)

33 42 26 16-0130	EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	685.48	75.81
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33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	851.21	80.86
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	923.69	88.44
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	996.08	96.03
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,531.46	108.65
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,806.29	129.89
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,987.13	129.89
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,016.38	151.54
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,241.92	173.19
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,127.06	216.49
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,619.36	259.79
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	14,488.20	389.68
33 42 26 16-0142	EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	15,087.52	519.57
33 42 26 16-0143	EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	16,436.57	557.46
33 42 26 16-0144	EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	17,141.11	595.34
33 42 26 16-0145	EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	18,683.35	649.47
33 42 26 16-0146	EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	19,776.02	703.58

33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section ^{(33 42}

^{26 16-0128)}

33 42 26 16-0148	EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	94.88	
33 42 26 16-0149	EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	103.58	
33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	108.89	
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	119.43	
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	133.60	
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	172.99	
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	191.98	
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	219.51	
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	248.18	
33 42 26 16-0157	EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	294.67	
33 42 26 16-0158	EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	381.95	
33 42 26 16-0159	EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	487.23	
33 42 26 16-0160	EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	650.60	
33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	741.67	
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	774.77	
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	800.65	
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	833.23	

33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories ^(33 42 26 16-0001)

33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections ^(33 42 26 16-0165)

33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	906.89	75.81
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,186.87	80.86
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,465.22	88.44
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,763.90	96.03
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,858.21	108.65
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,440.40	129.89
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	3,927.28	151.54

33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections ^(33 42 26 16-0165)

Note: Includes nut and bolt set.

33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	664.64	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	1,373.15	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	1,507.04	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	1,564.47	

33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections ^(33 42 26 16-0165)

33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	953.73	75.81
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,271.11	80.86
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,713.12	88.44
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,021.56	96.03
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,405.17	108.65
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,923.17	129.89
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	4,531.32	151.54

33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections ^(33 42 26 16-0165)

Note: Includes nut and bolt set.

33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	1,323.53	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	1,400.94	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	1,539.89	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	1,609.94	

33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section ^{(33 42}

^{26 16-0165)}



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	107.29		
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	121.58		
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	132.44		
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	148.36		
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	232.40		
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	249.51		
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	339.63		
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories <small>(33 42 26 16-0001)</small>			
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0200)</small>			
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,088.22		80.86
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,380.22		88.44
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,643.54		96.03
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	3,179.65		108.65
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections <small>(33 42 26 16-0200)</small>			
		Note: Includes nut and bolt set.			
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	797.29		
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	1,486.41		
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	1,564.47		
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	2,321.43		
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0200)</small>			
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	108.13		
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	123.44		
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	134.64		
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	157.95		
33 42 26 19		Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping <small>(33 42 26)</small>			
33 42 26 19-0001		Corrugated High Density Polyethylene (HDPE) Pipe End Sections <small>(33 42 26 19)</small>			
33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	68.34		20.57
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	132.43		30.84
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	182.09		38.56
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	286.14		61.69
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	342.45		69.40
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	362.91		74.54
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	436.86		82.25
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	570.38		97.68
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	1,238.89		110.53
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	1,519.08		123.38
33 42 26 23		Concrete End Sections for Stormwater Piping <small>(33 42 26)</small>			
33 42 26 23-0001		Precast Concrete End Sections <small>(33 42 26 23)</small>			
33 42 26 23-0002		Precast Concrete End Sections <small>(33 42 26 23-0001)</small>			
33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	710.89		118.56
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	954.43		146.76
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	1,181.70		185.78
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	1,356.00		222.17
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	1,440.95		257.14
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,813.91		322.57
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	2,248.51		484.50
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	2,776.17		611.36
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	3,358.68		766.91
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	3,680.95		864.86
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	4,014.88		968.78
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	4,357.23		1,077.02
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	4,337.91		861.67
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	4,967.49		1,077.05
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	5,905.44		1,346.32
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	6,987.47		1,615.58
33 42 26 23-0019		Flared Precast Concrete End Sections <small>(33 42 26 23-0001)</small>			
33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	894.90		126.10
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	1,077.65		157.17
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	1,308.30		198.95
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	1,494.92		237.92
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,824.18		275.37

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	2,199.70	439.79
	33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	2,288.31	605.52
	33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	3,091.86	764.20
	33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	3,710.11	958.82
	33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	4,014.43	1,081.36
	33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	4,490.20	1,211.14
	33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	4,974.91	1,345.25
	33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	5,802.68	1,549.95
	33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	6,768.23	1,729.95
	33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	7,674.95	1,946.11
	33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	8,853.63	2,162.06
33 42 31	Stormwater Area Drains and Inlets (33 42)				
	33 42 31 00-0001		Storm Drains (33 42 31) See CSI section 33 05 61 00-0001 for manhole structures.		
	33 42 31 00-0002		Catch Basins And Inlet Basins (33 42 31 00-0001) Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
	33 42 31 00-0003		Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002) Note: Inside dimensions.		
	33 42 31 00-0004		3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
	33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,826.87	348.97
	33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,178.32	408.88
	33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,529.75	468.69
	33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,881.18	528.60
	33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,232.63	588.41
	33 42 31 00-0010		3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
	33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,308.95	346.86
	33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,866.79	462.49
	33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,675.27	630.67
	33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,465.06	735.78
	33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,106.50	840.89
	33 42 31 00-0016		4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
	33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,479.50	378.40
	33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,433.07	525.56
	33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,211.95	683.22
	33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,864.43	788.33
	33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,173.85	1,009.07
	33 42 31 00-0022		Cast In Place, Catch Basin (33 42 31 00-0002) Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
	33 42 31 00-0023		3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)		
	33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,303.18	421.91
	33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,440.51	448.61
	33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,681.78	481.83
	33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,004.63	533.34
	33 42 31 00-0028	EA	5' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,254.98	567.71
	33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,405.05	595.35
	33 42 31 00-0030	EA	6' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,655.61	629.72
	33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,802.21	657.47
	33 42 31 00-0032	EA	7' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,054.47	691.74
	33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,202.83	719.49
	33 42 31 00-0034	EA	8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,453.28	753.86
	33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	556.69	94.18
	33 42 31 00-0036		3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
	33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,644.38	487.72
	33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,818.66	521.98
	33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,068.89	556.35
	33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,446.05	616.16
	33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,719.44	655.05
	33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,892.34	687.32
	33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,168.99	726.21
	33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,341.88	758.48
	33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,616.87	797.37
	33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,789.69	829.64
	33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,064.81	868.53
	33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	633.12	108.58
	33 42 31 00-0049		4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0050	EA		3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,009.71	557.92
33 42 31 00-0051	EA		3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,192.96	593.35
33 42 31 00-0052	EA		4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,478.41	635.29
33 42 31 00-0053	EA		4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,910.52	703.51
33 42 31 00-0054	EA		5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,210.10	746.91
33 42 31 00-0055	EA		5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,407.37	783.81
33 42 31 00-0056	EA		6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,706.94	827.22
33 42 31 00-0057	EA		6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,904.29	864.12
33 42 31 00-0058	EA		7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,203.88	907.52
33 42 31 00-0059	EA		7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,401.14	944.42
33 42 31 00-0060	EA		8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,700.72	987.94
33 42 31 00-0061	VLF		>8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	712.54	123.51
33 42 31 00-0062			4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063	EA		3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,475.77	646.96
33 42 31 00-0064	EA		3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,690.06	683.53
33 42 31 00-0065	EA		4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,005.00	730.83
33 42 31 00-0066	EA		4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,497.90	808.41
33 42 31 00-0067	EA		5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,829.26	857.39
33 42 31 00-0068	EA		5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,058.42	899.75
33 42 31 00-0069	EA		6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,389.71	948.73
33 42 31 00-0070	EA		6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,618.87	991.20
33 42 31 00-0071	EA		7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,950.22	1,040.18
33 42 31 00-0072	EA		7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,177.67	1,082.54
33 42 31 00-0073	EA		8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,510.67	1,131.53
33 42 31 00-0074	VLF		>8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	813.88	141.48
33 42 31 00-0075			5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076	EA		4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,477.18	820.60
33 42 31 00-0077	EA		4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,026.15	906.79
33 42 31 00-0078	EA		5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,384.13	960.50
33 42 31 00-0079	EA		5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,638.19	1,007.59
33 42 31 00-0080	EA		6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,992.80	1,061.20
33 42 31 00-0081	EA		6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,248.57	1,108.30
33 42 31 00-0082	EA		7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,604.85	1,162.00
33 42 31 00-0083	EA		7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,857.25	1,209.09
33 42 31 00-0084	EA		8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,215.23	1,262.70
33 42 31 00-0085	VLF		>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,367.03	157.87
33 42 31 00-0086			5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087	EA		4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,972.34	915.10
33 42 31 00-0088	EA		4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,774.43	1,035.88
33 42 31 00-0089	EA		5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,169.60	1,095.57
33 42 31 00-0090	EA		5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,460.83	1,149.08
33 42 31 00-0091	EA		6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,857.65	1,209.19
33 42 31 00-0092	EA		6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,150.61	1,262.70
33 42 31 00-0093	EA		7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,545.78	1,322.83
33 42 31 00-0094	EA		7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,837.02	1,376.32
33 42 31 00-0095	EA		8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,232.19	1,436.45
33 42 31 00-0096	VLF		>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,029.02	179.53
33 42 31 00-0097			6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098	EA		4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,493.74	1,014.01
33 42 31 00-0099	EA		4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,377.76	1,146.55
33 42 31 00-0100	EA		5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,800.18	1,211.51
33 42 31 00-0101	EA		5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,118.74	1,269.85
33 42 31 00-0102	EA		6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,539.44	1,334.80
33 42 31 00-0103	EA		6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,859.65	1,393.14
33 42 31 00-0104	EA		7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,280.42	1,458.10
33 42 31 00-0105	EA		7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,598.91	1,516.44
33 42 31 00-0106	EA		8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,021.34	1,581.39
33 42 31 00-0107	VLF		>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,127.72	197.71
33 42 31 00-0108			6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109	EA		4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,037.93	1,117.64
33 42 31 00-0110	EA		4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,254.90	1,294.86
33 42 31 00-0111	EA		5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,718.23	1,366.76
33 42 31 00-0112	EA		5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,079.24	1,432.03
33 42 31 00-0113	EA		6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,542.57	1,503.83
33 42 31 00-0114	EA		6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,903.57	1,569.21
33 42 31 00-0115	EA		7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,366.90	1,640.99
33 42 31 00-0116	EA		7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,727.91	1,706.27
33 42 31 00-0117	EA		8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,192.88	1,778.16
33 42 31 00-0118	VLF		>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,274.06	222.31

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0119			7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120	EA		4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,606.89	1,225.80
33 42 31 00-0121	EA		4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,939.28	1,419.21
33 42 31 00-0122	EA		5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,430.48	1,496.15
33 42 31 00-0123	EA		5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,817.84	1,566.37
33 42 31 00-0124	EA		6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,310.66	1,643.20
33 42 31 00-0125	EA		6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,698.01	1,713.52
33 42 31 00-0126	EA		7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,189.21	1,790.36
33 42 31 00-0127	EA		7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,578.28	1,860.68
33 42 31 00-0128	EA		8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,069.39	1,937.51
33 42 31 00-0129	VLF		>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,383.73	242.17
33 42 31 00-0130			7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131	EA		4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,483.59	1,375.80
33 42 31 00-0132	EA		4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,651.64	1,548.60
33 42 31 00-0133	EA		5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,169.08	1,630.48
33 42 31 00-0134	EA		5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,586.03	1,705.74
33 42 31 00-0135	EA		6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,105.09	1,787.62
33 42 31 00-0136	EA		6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,522.04	1,862.89
33 42 31 00-0137	EA		7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,039.49	1,944.76
33 42 31 00-0138	EA		7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,456.44	2,020.03
33 42 31 00-0139	EA		8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,975.59	2,101.90
33 42 31 00-0140	VLF		>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,496.91	262.77
33 42 31 00-0141			8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142	EA		4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	8,128.74	1,496.89
33 42 31 00-0143	EA		4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,390.13	1,683.04
33 42 31 00-0144	EA		5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,935.62	1,769.86
33 42 31 00-0145	EA		5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,380.45	1,850.16
33 42 31 00-0146	EA		6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,925.84	1,936.99
33 42 31 00-0147	EA		6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,367.24	2,017.29
33 42 31 00-0148	EA		7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,916.08	2,104.11
33 42 31 00-0149	EA		7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,360.91	2,184.42
33 42 31 00-0150	EA		8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,896.98	2,271.24
33 42 31 00-0151	VLF		>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,613.29	283.91
33 42 31 00-0152			Precast Concrete Catch Basins (33 42 31 00-0002)		
			Note: Inside dimensions.		
33 42 31 00-0153			1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154	EA		4' Deep, 1'-6" Diameter Precast Catch Basins	692.68	220.56
33 42 31 00-0155	EA		6' Deep, 1'-6" Diameter Precast Catch Basins	966.58	330.84
33 42 31 00-0156	EA		8' Deep, 1'-6" Diameter Precast Catch Basins	1,227.44	430.09
33 42 31 00-0157	EA		10' Deep, 1'-6" Diameter Precast Catch Basins	1,468.65	508.39
33 42 31 00-0158	EA		12' Deep, 1'-6" Diameter Precast Catch Basins	1,811.21	645.13
33 42 31 00-0159	EA		14' Deep, 1'-6" Diameter Precast Catch Basins	2,072.91	744.38
33 42 31 00-0160	VLF		Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	144.61	49.62
33 42 31 00-0161			2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162	EA		4' Deep, 2' Diameter Precast Catch Basin	788.53	245.37
33 42 31 00-0163	EA		6' Deep, 2' Diameter Precast Catch Basin	1,094.33	363.92
33 42 31 00-0164	EA		8' Deep, 2' Diameter Precast Catch Basin	1,384.13	479.72
33 42 31 00-0165	EA		10' Deep, 2' Diameter Precast Catch Basin	1,650.67	559.67
33 42 31 00-0166	EA		12' Deep, 2' Diameter Precast Catch Basin	2,048.38	716.81
33 42 31 00-0167	EA		14' Deep, 2' Diameter Precast Catch Basin	2,341.36	827.09
33 42 31 00-0168	VLF		Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	163.40	59.55
33 42 31 00-0169			3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170	EA		4' Deep, 3' Diameter Precast Catch Basin	1,035.75	289.49
33 42 31 00-0171	EA		6' Deep, 3' Diameter Precast Catch Basin	1,418.25	427.88
33 42 31 00-0172	EA		8' Deep, 3' Diameter Precast Catch Basin	1,785.75	565.18
33 42 31 00-0173	EA		10' Deep, 3' Diameter Precast Catch Basin	2,223.94	705.79
33 42 31 00-0174	EA		12' Deep, 3' Diameter Precast Catch Basin	2,628.43	841.43
33 42 31 00-0175	EA		14' Deep, 3' Diameter Precast Catch Basin	3,019.62	979.28
33 42 31 00-0176	VLF		Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	208.10	69.95
33 42 31 00-0177			4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178	EA		4' Deep, 4' Diameter Precast Catch Basin	1,249.01	322.02
33 42 31 00-0179	EA		6' Deep, 4' Diameter Precast Catch Basin	1,627.59	441.11
33 42 31 00-0180	EA		8' Deep, 4' Diameter Precast Catch Basin	2,189.43	661.67
33 42 31 00-0181	EA		10' Deep, 4' Diameter Precast Catch Basin	2,732.22	827.09
33 42 31 00-0182	EA		12' Deep, 4' Diameter Precast Catch Basin	3,231.67	992.52



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 31 00-0183	EA	14' Deep, 4' Diameter Precast Catch Basin.....	3,716.44	1,157.93
	33 42 31 00-0184	VLF	Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin.....	255.51	82.71
	33 42 31 00-0185		5' Diameter Precast Catch Basins (33 42 31 00-0152)		
	33 42 31 00-0186	EA	4' Deep, 5' Diameter Precast Catch Basin.....	1,682.53	441.11
	33 42 31 00-0187	EA	6' Deep, 5' Diameter Precast Catch Basin.....	2,311.53	661.67
	33 42 31 00-0188	EA	8' Deep, 5' Diameter Precast Catch Basin.....	2,943.81	882.23
	33 42 31 00-0189	EA	10' Deep, 5' Diameter Precast Catch Basin.....	3,602.96	1,102.79
	33 42 31 00-0190	EA	12' Deep, 5' Diameter Precast Catch Basin.....	4,253.17	1,323.35
	33 42 31 00-0191	EA	14' Deep, 5' Diameter Precast Catch Basin.....	4,951.73	1,543.91
	33 42 31 00-0192	VLF	Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin.....	339.98	110.28
	33 42 31 00-0193		6' Diameter Precast Catch Basins (33 42 31 00-0152)		
	33 42 31 00-0194	EA	4' Deep, 6' Diameter Precast Catch Basin.....	2,464.16	661.67
	33 42 31 00-0195	EA	6' Deep, 6' Diameter Precast Catch Basin.....	3,353.77	992.52
	33 42 31 00-0196	EA	8' Deep, 6' Diameter Precast Catch Basin.....	4,303.21	1,323.35
	33 42 31 00-0197	EA	10' Deep, 6' Diameter Precast Catch Basin.....	5,363.74	1,654.19
	33 42 31 00-0198	EA	12' Deep, 6' Diameter Precast Catch Basin.....	6,393.76	1,985.02
	33 42 31 00-0199	EA	14' Deep, 6' Diameter Precast Catch Basin.....	7,401.86	2,315.86
	33 42 31 00-0200	VLF	Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin.....	506.94	165.42
	33 42 31 00-0201		Precast Catch Basins Accessories (33 42 31 00-0152)		
	33 42 31 00-0202	EA	Single Or Double Wing Slab Top With Throat.....	1,531.75	716.81
	33 42 31 00-0203	EA	4' x 4' Weir Box, Precast Catch Basin.....	669.79	88.22
	33 42 31 00-0204	EA	4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	383.03	93.74
	33 42 31 00-0205	EA	3' Diameter, Up To 6" High, Precast Extension Ring.....	480.31	137.85
			<i>For Each Additional Inch In Height, Add</i>	57.06	
	33 42 31 00-0206	EA	4' Diameter, Up To 6" High, Precast Extension Ring.....	566.97	165.42
			<i>For Each Additional Inch In Height, Add</i>	66.90	
	33 42 31 00-0207	EA	5' Diameter, Up To 6" High, Precast Extension Ring.....	661.25	192.99
			<i>For Each Additional Inch In Height, Add</i>	78.08	
	33 42 31 00-0208	EA	6' Diameter, Up To 6" High, Precast Extension Ring.....	832.65	275.70
			<i>For Each Additional Inch In Height, Add</i>	92.87	
	33 42 31 00-0209	EA	Adjust Existing Catch Basin Inlet Grate To Match Grade.....	661.63	
	33 42 31 00-0210		Catch Basin Risers (33 42 31 00-0152)		
	33 42 31 00-0211	EA	Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser.....	412.44	
	33 42 31 00-0212	EA	>860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	460.86	
	33 42 31 00-0213	EA	>1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	518.44	
	33 42 31 00-0214	EA	Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	444.06	
	33 42 31 00-0215	EA	>860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	495.74	
	33 42 31 00-0216	EA	>1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	559.57	
	33 42 31 00-0217	EA	Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	491.42	
	33 42 31 00-0218	EA	>860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	537.30	
	33 42 31 00-0219	EA	>1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	601.35	
	33 42 31 00-0220		Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
			Note: Inside span.		
	33 42 31 00-0221	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,838.50	832.27
	33 42 31 00-0222	EA	6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,509.00	949.79
	33 42 31 00-0223	EA	6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,262.24	1,077.92
	33 42 31 00-0224	EA	7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	7,513.51	1,293.08
	33 42 31 00-0225	EA	8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	9,127.01	1,561.10
	33 42 31 00-0226		Precast Concrete Inlet Boxes (33 42 31 00-0002)		
			Note: Inside dimensions.		
	33 42 31 00-0227		Precast Concrete Inlet Boxes (33 42 31 00-0226)		
	33 42 31 00-0228		24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
			Note: Yard inlet.		
	33 42 31 00-0229		24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
	33 42 31 00-0230	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	824.08	77.19
	33 42 31 00-0231	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	968.77	93.74
	33 42 31 00-0232	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,113.48	110.28
	33 42 31 00-0233	EA	42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,259.55	127.51
	33 42 31 00-0234		24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
	33 42 31 00-0235	EA	6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	205.35	
	33 42 31 00-0236	EA	12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	333.51	
	33 42 31 00-0237	EA	18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	472.69	
	33 42 31 00-0238	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	611.88	
	33 42 31 00-0239	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	751.06	
	33 42 31 00-0240	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	890.25	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,687.99	216.49
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,898.68	250.32
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,109.37	284.14
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,320.22	318.05
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,531.07	351.95
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,741.92	385.86
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,952.77	419.77
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	402.00	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	649.62	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	704.80	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	902.98	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,101.14	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,291.18	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,501.87	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,712.56	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,923.41	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,134.26	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,345.11	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,555.95	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,626.79	238.14
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,837.74	275.34
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,048.68	312.56
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,259.80	349.85
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,470.92	387.15
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,682.05	424.45
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,893.18	461.74
33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	398.54	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	636.87	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	693.18	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	887.07	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,080.97	
33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,273.78	
33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,481.74	
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,688.63	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,896.61	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,103.48	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,311.46	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,519.43	
33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,935.66	259.79
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,183.45	302.00
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,431.23	345.30
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,677.92	387.51
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,925.72	430.81
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,173.50	473.02
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,420.20	515.24
33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	440.40	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	718.45	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	776.36	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	996.55	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,216.73	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,436.92	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,671.71	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,906.51	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,141.29	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,376.09	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,610.89	
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,845.68	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	1,097.55	162.37
33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,749.16	288.65
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,080.67	336.10
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,412.19	383.54
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,743.36	430.81
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,074.52	478.09
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,405.69	525.36
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,736.87	572.63
33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	442.28	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	707.77	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,034.60	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,361.43	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,670.21	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,997.03	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,328.55	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,660.06	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,991.23	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,322.39	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,653.57	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,984.74	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab.....	1,192.89	175.90
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,168.15	363.70
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,532.35	424.46
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,896.54	485.23
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,260.07	545.66
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,623.60	606.09
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,987.12	666.52
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	5,350.65	726.95
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	485.13	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	758.10	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,122.01	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,485.90	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,819.50	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,183.39	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,547.59	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,911.79	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,275.31	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,638.84	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,002.36	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,365.89	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab.....	1,326.15	197.00
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,966.59	490.35
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,427.28	571.53
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,887.98	651.63
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,347.59	732.81
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,808.28	812.92
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	6,267.89	893.01
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	6,729.67	974.20

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	649.04	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	997.16	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,450.27	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,903.39	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,325.12	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,778.23	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,238.92	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,699.62	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,159.23	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,619.92	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,079.53	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,540.22	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab.....	1,810.53	216.49
33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate.....	411.84	50.54
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT).....	535.37	50.54
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT).....	535.37	50.54
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT).....	535.37	50.54
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	587.08	50.54
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK).....	429.64	101.07
33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	502.03	101.07
33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4).....	624.95	126.35
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	531.88	126.35
33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	542.23	126.35
33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	562.91	126.35
33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	583.59	126.35
33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	562.91	126.35
33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	583.59	126.35
33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	604.27	126.35
33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	873.12	126.35
33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	914.49	126.35
33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	955.85	126.35
33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	645.63	126.35
33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	583.59	126.35
33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	583.59	126.35
33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	1,205.81	126.35
33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	1,205.81	126.35
33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	484.77	138.98
33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648).....	681.24	138.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848).....	681.24	138.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048).....	753.63	138.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM).....	867.37	138.98
33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM).....	743.28	138.98
33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....	1,063.84	138.98
33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002).....	939.76	138.98
33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,210.86	202.15
33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,955.38	202.15
33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340).....	1,179.84	202.15
33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,858.18	202.15
33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,981.74	303.22
33 42 31 00-0419 EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	2,027.70	404.30
33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	2,225.26	404.30
33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	2,225.26	404.30
33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,966.74	404.30
33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,966.74	404.30
33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	2,307.98	404.30
33 42 31 00-0425 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0426 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0427 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,622.07	
33 42 31 00-0428 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,046.34	
33 42 31 00-0429 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,440.30	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			33 42 31 00-0430 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,803.95	
			33 42 31 00-0431 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,137.27	
			33 42 31 00-0432 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,440.29	
			33 42 31 00-0433 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,041.97	
			33 42 31 00-0434 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,043.80	
			33 42 31 00-0435 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,968.56	
			33 42 31 00-0436 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,818.43	
			33 42 31 00-0437 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,636.36	
			33 42 31 00-0438 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,388.44	
			33 42 31 00-0439 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,074.65	
			33 42 31 00-0440 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0441 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,570.48	
			33 42 31 00-0442 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,967.04	
			33 42 31 00-0443 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,333.30	
			33 42 31 00-0444 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,669.24	
			33 42 31 00-0445 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,973.74	
			33 42 31 00-0446 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,249.06	
			33 42 31 00-0447 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,803.15	
			33 42 31 00-0448 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,781.58	
			33 42 31 00-0449 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,682.92	
			33 42 31 00-0450 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,508.26	
			33 42 31 00-0451 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,305.92	
			33 42 31 00-0452 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,037.71	
			33 42 31 00-0453 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,703.64	
			33 42 31 00-0454 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0455 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,444.51	
			33 42 31 00-0456 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,815.78	
			33 42 31 00-0457 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,155.63	
			33 42 31 00-0458 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,466.26	
			33 42 31 00-0459 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,745.48	
			33 42 31 00-0460 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,994.39	
			33 42 31 00-0461 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,564.34	
			33 42 31 00-0462 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,518.26	
			33 42 31 00-0463 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,397.28	
			33 42 31 00-0464 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,199.19	
			33 42 31 00-0465 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,975.47	
			33 42 31 00-0466 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,686.99	
			33 42 31 00-0467 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,331.54	
			33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0469 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,690.45	
			33 42 31 00-0470 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,024.37	
			33 42 31 00-0471 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,327.97	
			33 42 31 00-0472 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,601.25	
			33 42 31 00-0473 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,844.23	
			33 42 31 00-0474 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	7,056.89	
			33 42 31 00-0475 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,642.70	
			33 42 31 00-0476 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,563.34	
			33 42 31 00-0477 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,407.99	
			33 42 31 00-0478 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,176.64	
			33 42 31 00-0479 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,925.21	
			33 42 31 00-0480 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,606.81	
			33 42 31 00-0481 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,222.53	
			33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0483 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	8,219.54	
			33 42 31 00-0484 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	8,479.20	
			33 42 31 00-0485 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	8,708.55	
			33 42 31 00-0486 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	8,907.58	
			33 42 31 00-0487 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	9,075.19	
			33 42 31 00-0488 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	9,213.59	
			33 42 31 00-0489 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,751.84	
			33 42 31 00-0490 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,606.93	
			33 42 31 00-0491 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,386.02	
			33 42 31 00-0492 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,089.12	
			33 42 31 00-0493 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,780.82	
			33 42 31 00-0494 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	14,405.56	
			33 42 31 00-0495 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	14,964.44	
			33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0497 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,332.92	
			33 42 31 00-0498 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,770.65	
			33 42 31 00-0499 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,173.56	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,541.66
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,876.07
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,176.76
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,865.65
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,955.36
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,959.64
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,877.34
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,765.87
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,580.30
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,319.52

33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,281.33
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,690.24
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,065.45
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,406.95
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,713.64
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,985.52
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,674.41
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,738.63
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,717.39
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,610.71
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,477.06
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,269.33
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,987.50

33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0525	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,766.64
33 42 31 00-0526	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,112.13
33 42 31 00-0527	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,432.21
33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,729.06
33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,002.70
33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,250.93

33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,436.11
33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,824.39
33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,184.96
33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,517.83
33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,822.99
33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,099.34
33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,550.36
33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,474.67
33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,329.12
33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,113.71
33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,868.91
33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,563.58
33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,196.65

33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,915.42
33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,256.07
33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,572.43
33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,865.57
33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,133.28
33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,377.79

33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,361.72
33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,752.42
33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,115.40
33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,449.58
33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,757.15
33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,035.91
33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,518.65
33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,444.70
33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,299.82
33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,085.07
33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,840.78
33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,535.98
33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,170.66

33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,436.11
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	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0568 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,824.39	
33 42 31 00-0569 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,184.96	
33 42 31 00-0570 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,517.83	
33 42 31 00-0571 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,822.99	
33 42 31 00-0572 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,099.34	
33 42 31 00-0573 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,550.36	
33 42 31 00-0574 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,474.67	
33 42 31 00-0575 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,329.12	
33 42 31 00-0576 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,113.71	
33 42 31 00-0577 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,868.91	
33 42 31 00-0578 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,563.58	
33 42 31 00-0579 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,196.65	
33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0581 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,896.81	
33 42 31 00-0582 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,237.82	
33 42 31 00-0583 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,555.59	
33 42 31 00-0584 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,847.96	
33 42 31 00-0585 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,117.10	
33 42 31 00-0586 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,361.92	
33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0588 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,934.02	
33 42 31 00-0589 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,274.35	
33 42 31 00-0590 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,590.37	
33 42 31 00-0591 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,882.08	
33 42 31 00-0592 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,149.47	
33 42 31 00-0593 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,393.64	
33 42 31 00-0594 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0595 EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,235.75	
33 42 31 00-0596 EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,768.29	
33 42 31 00-0597 EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,299.05	
33 42 31 00-0598 EA 6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,719.87	
33 42 31 00-0599 EA 7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,137.80	
33 42 31 00-0600 EA 8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,518.65	
33 42 31 00-0601 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0602 EA 3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,923.80	
33 42 31 00-0603 EA 4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,503.57	
33 42 31 00-0604 EA 5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,040.51	
33 42 31 00-0605 EA 6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,535.72	
33 42 31 00-0606 EA 7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,988.11	
33 42 31 00-0607 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,398.76	
33 42 31 00-0608 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,563.41	
33 42 31 00-0609 EA 10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,926.12	
33 42 31 00-0610 EA 12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,184.22	
33 42 31 00-0611 EA 14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,338.78	
33 42 31 00-0612 EA 16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,451.77	
33 42 31 00-0613 EA 18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,474.03	
33 42 31 00-0614 EA 20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,405.51	
33 42 31 00-0615 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0616 EA 3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,217.16	
33 42 31 00-0617 EA 4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,750.02	
33 42 31 00-0618 EA 5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,245.78	
33 42 31 00-0619 EA 6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,703.36	
33 42 31 00-0620 EA 7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,121.62	
33 42 31 00-0621 EA 8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,502.78	
33 42 31 00-0622 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0623 EA 3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,053.98	
33 42 31 00-0624 EA 4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,629.26	
33 42 31 00-0625 EA 5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,162.80	
33 42 31 00-0626 EA 6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,653.52	
33 42 31 00-0627 EA 7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,102.51	
33 42 31 00-0628 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,509.78	
33 42 31 00-0629 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,579.27	
33 42 31 00-0630 EA 10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,941.65	
33 42 31 00-0631 EA 12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,199.41	
33 42 31 00-0632 EA 14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,352.56	
33 42 31 00-0633 EA 16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,465.30	
33 42 31 00-0634 EA 18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,487.27	
33 42 31 00-0635 EA 20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,418.49	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 31 00-0636	Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0637	EA 3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,305.93	
33 42 31 00-0638	EA 4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,680.44	
33 42 31 00-0639	EA 5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,027.89	
33 42 31 00-0640	EA 6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,348.30	
33 42 31 00-0641	EA 7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,641.64	
33 42 31 00-0642	EA 8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,909.04	
33 42 31 00-0643	EA 8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	5,375.92	
33 42 31 00-0644	EA 10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,272.74	
33 42 31 00-0645	EA 12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,100.05	
33 42 31 00-0646	EA 14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,860.04	
33 42 31 00-0647	EA 16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,592.98	
33 42 31 00-0648	EA 18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,265.46	
33 42 31 00-0649	EA 20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,879.66	
33 42 31 00-0650	Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0651	EA 3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,012.59	
33 42 31 00-0652	EA 4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,504.87	
33 42 31 00-0653	EA 5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,961.74	
33 42 31 00-0654	EA 6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,384.33	
33 42 31 00-0655	EA 7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,770.41	
33 42 31 00-0656	EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,122.19	
33 42 31 00-0657	EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,914.16	
33 42 31 00-0658	EA 10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,070.04	
33 42 31 00-0659	EA 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,137.79	
33 42 31 00-0660	EA 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,118.53	
33 42 31 00-0661	EA 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,063.00	
33 42 31 00-0662	EA 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,931.02	
33 42 31 00-0663	EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,722.59	
33 42 31 00-0664	Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665	Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666	EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	855.50	110.28
33 42 31 00-0667	EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	1,082.72	124.61
33 42 31 00-0668	EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	1,226.40	129.03
33 42 31 00-0669	EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....	1,382.37	149.98
33 42 31 00-0670	EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	1,621.75	170.93
33 42 31 00-0671	EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....	2,590.02	178.65
33 42 31 00-0672	EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	1,402.69	135.65
33 42 31 00-0673	EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	1,829.81	156.60
33 42 31 00-0674	EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	2,069.79	163.22
33 42 31 00-0675	EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	1,955.27	163.22
33 42 31 00-0676	EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	2,020.83	169.83
33 42 31 00-0677	EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	2,170.38	176.45
33 42 31 00-0678	EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	2,610.17	189.68
33 42 31 00-0679	Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680	Ductile Iron Grates (33 42 31 00-0679)		
	Note: Not for traffic loading.		
33 42 31 00-0681	EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	165.75	38.56
33 42 31 00-0682	EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	203.52	41.13
33 42 31 00-0683	EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	475.87	51.41
33 42 31 00-0684	EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	568.60	61.69
33 42 33	Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001	Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002	Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003	EA 20" x 22" Cast Iron Curb Inlet Frame And Cover.....	1,752.10	129.03
33 42 33 00-0004	EA 22" x 24" Cast Iron Curb Inlet Frame And Cover.....	1,873.30	149.98
33 42 33 00-0005	EA 24" x 24" Cast Iron Curb Inlet Frame And Cover.....	1,948.33	149.98
33 42 33 00-0006	EA 27" x 27" Cast Iron Curb Inlet Frame And Cover.....	2,133.53	176.45
33 42 33 00-0007	EA 36" x 24" Cast Iron Curb Inlet Frame And Cover.....	2,110.17	188.57
33 42 36	Stormwater Trench Drains (33 42)		
33 42 36 00-0001	Modular Trench Drains (33 42 36)		
	See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002	Modular Trench Drains (33 42 36 00-0001)		
	Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003	4" Wide, Modular Trench Drains (33 42 36 00-0002)		



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	68.54	17.65
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	104.23	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	208.46	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	333.53	
For Type 304 Stainless Steel Top Veneer Frame, Add	83.38	
For Aluminum Veneer Bronze Anodized Frame, Add	41.69	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	52.13	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	63.17	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	63.17	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain.....	213.58	17.65
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	104.23	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	208.46	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	333.53	
For Type 304 Stainless Steel Top Veneer Frame, Add	83.38	
For Aluminum Veneer Bronze Anodized Frame, Add	41.69	
33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0016 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	97.09	
33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	108.13	
33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	108.13	
33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	187.47	
33 42 36 00-0021 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	187.47	
33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	888.96	
33 42 36 00-0023 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	1,722.78	
33 42 36 00-0024 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	208.46	
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	311.55	17.65
For Black Acid Resistant Coated Frame, Add	79.21	
For Galvanized Top Frame Assembly, Add	79.21	
For Type 304 Stainless Steel Top Frame Assembly, Add	291.84	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	105.43	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	116.47	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	116.47	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	187.47	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	187.47	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	888.96	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,722.78	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	208.46	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Black Acid Resistant Coated Frame, Add</i> <i>For Galvanized Top Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	403.27 79.21 79.21 291.84	17.65
33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	172.14	
33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	183.18	
33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	183.18	
33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	187.47	
33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	187.47	
33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	888.96	
33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,722.78	
33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	208.46	
33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053 LF 6" Wide, Polymer Concrete, Modular Trench Drain	478.72	
33 42 36 00-0054 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055 EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	189.66	
33 42 36 00-0056 EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	230.95	
33 42 36 00-0057 EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	72.66	
33 42 36 00-0058 12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain	402.89	24.27
<i>For Acid Resistant Coated Top Frame, Add</i>	108.40	
<i>For Galvanized Welded Frame Assembly, Add</i>	113.61	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	650.38	
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	200.34	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	215.04	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	215.04	
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	335.30	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	439.53	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,752.46	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	3,420.10	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	416.91	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	507.12	24.27
<i>For Acid Resistant Coated Top Frame, Add</i>	108.40	
<i>For Galvanized Welded Frame Assembly, Add</i>	113.61	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	650.38	
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	208.68	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	223.38	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	223.38	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	335.30	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	439.53	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,752.46	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,420.10	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	416.91	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	715.58	24.27
<i>For Acid Resistant Coated Top Frame, Add</i>	108.40	
<i>For Galvanized Welded Frame Assembly, Add</i>	113.61	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	650.38	
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	521.36	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	536.06	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	536.06	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	335.30	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	439.53	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,752.46	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,420.10	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	416.91	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	642.09	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain.....	322.78	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	556.26	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	127.81	
33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	564.99	33.09
<i>For Acid Resistant Coated Frame, Add</i>	162.59	
<i>For Galvanized Frame Assembly, Add</i>	162.59	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	1,000.58	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	639.56	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	931.84	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	931.84	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	762.67	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	3,473.11	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	6,808.39	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	833.82	
33 42 36 00-0118 Modular Trench Drain Grates (33 42 36 00-0001)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	43.87	3.30
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	46.13	3.30
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	37.11	3.30
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	99.15	3.30
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	37.11	3.30
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	99.15	3.30

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0126	6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0127	LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	205.64	3.30
33 42 36 00-0128	LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	174.16	3.30
33 42 36 00-0129	LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	182.92	3.30
33 42 36 00-0130	LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	159.78	3.30
33 42 36 00-0131	LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	172.28	3.30
33 42 36 00-0132	LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	174.37	3.30
33 42 36 00-0133	LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	174.37	3.30
33 42 36 00-0134	LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	172.28	3.30
33 42 36 00-0135	LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	151.44	3.30
33 42 36 00-0136	LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	151.44	3.30
33 42 36 00-0137	LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	161.03	3.30
33 42 36 00-0138	LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	161.03	3.30
33 42 36 00-0139	LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	209.81	3.30
33 42 36 00-0140	LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	209.81	3.30
33 42 36 00-0141	LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	384.91	3.30
33 42 36 00-0142	LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	384.91	3.30
33 42 36 00-0143	LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	1,072.81	3.30
33 42 36 00-0144	LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	143.10	3.30
33 42 36 00-0145	LF 6" Wide, Fiberglass, Modular Trench Drain Grate	309.86	3.30
33 42 36 00-0146	12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0147	LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	568.89	3.58
33 42 36 00-0148	LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	543.87	3.58
33 42 36 00-0149	LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	473.00	3.58
33 42 36 00-0150	LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	496.97	3.58
33 42 36 00-0151	LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	429.22	3.58
33 42 36 00-0152	LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	840.92	3.58
33 42 36 00-0153	LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	840.92	3.58
33 42 36 00-0154	LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,073.35	3.58
33 42 36 00-0155	LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	1,073.35	3.58
33 42 36 00-0156	LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,370.40	3.58
33 42 36 00-0157	LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,370.40	3.58
33 42 36 00-0158	LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,300.57	3.58
33 42 36 00-0159	LF 12" Wide, Fiberglass, Modular Trench Drain Grate	613.71	3.58
33 42 36 00-0160	23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161	LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	898.81	3.86
33 42 36 00-0162	LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	757.06	3.86
33 42 36 00-0163	LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	1,173.97	3.86
33 42 36 00-0164	LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	869.62	3.86

33 44 Storm Utility Water Drains (33 40)**33 44 36 Oil and Stormwater Separators** (33 44)

33 44 36 00-0001	Oil/Water Separator (33 44 36) Note: Complete with internal sensors and detectors.		
33 44 36 00-0002	Coalescing Oil Water Separator (33 44 36 00-0001) Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003	Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004	EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	19,107.18	
	Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
	For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0005	EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	23,360.43	
	Note: HTC-G 1000. 4' diameter x 14' long tank.		
	For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0006	EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	27,960.16	
	Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
	For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0007	Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008	EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	29,634.87	
	Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
	For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0009	EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	34,074.20	
	Note: HTC-G 1000. 4' diameter x 14' long tank.		
	For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0010	EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	41,592.27	
	Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
	For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0011	EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	48,395.74	
	Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
	For Interior Polyurethane Coating, Add	1,550.70	



Utilities	33	CS
Stormwater Utilities	33 40	
Storm Utility Water Drains	33 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000, 6' diameter x 28'-8" long tank. <i>For Interior Polyurethane Coating, Add</i>	64,246.44 2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	1,180.80	
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP2.	1,605.99	
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	954.36	
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	704.79	
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	236.83	
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	4,065.60	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	8,131.19	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	12,196.88	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	730.69	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	863.80	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,727.60	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	3,839.31	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,042.66	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,359.66	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,884.63	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,440.33	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	4,426.16	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	5,557.58	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	7,009.28	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,387.23	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,690.89	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,655.92	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,322.76	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,605.61	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,905.11	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	112.31	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	126.87	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,215.98	683.44
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,451.78	683.44
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,237.82	683.44
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,540.20	683.44
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,485.62	683.44
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,685.39	683.44
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,536.92	683.44
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,838.22	683.44
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,925.15	911.44
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	6,177.32	911.44
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,991.74	911.44
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	6,354.17	911.44
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	6,562.67	911.44
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	6,814.84	911.44
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,616.16	911.44
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,979.68	911.44
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	275.45	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	323.48	

33 46 Stormwater Management (33 40)

33 46 23 Modular Buried Stormwater Storage Units (33 46)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 46 23 00-0001		Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) <small>(33 46 23)</small>	
		Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.	
33 46 23 00-0002		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) <small>(33 46 23 00-0001)</small>	
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	585.65
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	541.00
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	508.48
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	477.02
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	241.52
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	214.08
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	197.91
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	181.98
33 46 23 00-0011		85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) <small>(33 46 23 00-0001)</small>	
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	332.12
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	304.59
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	285.23
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	267.51
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	188.51
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	168.14
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	155.58
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	144.34
33 46 23 00-0020		90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) <small>(33 46 23 00-0001)</small>	
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	999.39
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	932.16
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	878.01
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	828.62
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	841.07
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	781.74
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	735.12
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	692.88
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) <small>(33 46 23 00-0001)</small>	
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	608.35
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	562.59
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	528.97
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	496.48
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	241.52
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	209.79
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	197.91
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	181.98
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) <small>(33 46 23 00-0001)</small>	
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,038.52



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Management	33 46	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0040	EA		>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	967.42	
33 46 23 00-0041	EA		>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	909.45	
33 46 23 00-0042	EA		>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	859.04	
33 46 23 00-0043	EA		Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,294.84	
33 46 23 00-0044	EA		>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,210.91	
33 46 23 00-0045	EA		>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,140.77	
33 46 23 00-0046	EA		>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,078.80	
33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)					
33 46 23 00-0048	EA		Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	61.55	
33 46 23 00-0049	EA		Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	78.20	
33 46 23 00-0050	EA		Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	102.09	
33 46 23 00-0051	EA		Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	128.99	
33 46 23 00-0052	EA		12" x 6" Inspection Port Kit	734.96	
Note: (2712AG6IPKIT)					
33 46 53 Stormwater Leaching Pits (33 46)					
33 46 53 00-0001 Drainage Wells (33 46 53)					
Note: Includes augering hole.					
33 46 53 00-0002	LF		12" Diameter Drainage Well With Corrugated Metal Liner.....	34.88	
33 46 53 00-0003	LF		18" Diameter Drainage Well With Corrugated Metal Liner.....	43.39	
33 46 53 00-0004	LF		24" Diameter Drainage Well With Corrugated Metal Liner.....	59.40	
33 50 Hydrocarbon Utilities (33)					
33 51 Hydrocarbon Sources (33 50)					
33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)					
33 51 29 00-0001 Landfill Gas Well (33 51 29)					
33 51 29 00-0002 Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)					
33 51 29 00-0003	EA		24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	1,302.67	
33 51 29 00-0004	EA		>24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,954.01	
33 51 29 00-0005 Drilled Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001)					
Note: Excludes well gravel or materials.					
33 51 29 00-0006	LF		24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	225.53	
33 51 29 00-0007	LF		30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	293.75	
33 51 29 00-0008	LF		36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	365.40	
33 51 29 00-0009 Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001)					
Note: 1/2" x 1-1/2" drain rock.					
33 51 29 00-0010	LF		24" Diameter Landfill Gas Extraction Well, Gravel.....	118.96	
33 51 29 00-0011	LF		30" Diameter Landfill Gas Extraction Well, Gravel.....	152.82	
33 51 29 00-0012	LF		36" Diameter Landfill Gas Extraction Well, Gravel.....	177.23	
33 51 29 00-0013 Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)					
33 51 29 00-0014	EA		Landfill Gas Extraction Well Head Assembly	3,385.64	
33 51 29 00-0015	EA		Landfill Gas Extraction Well Locking Enclosure.....	1,053.29	
33 51 29 00-0016	SF		Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4).....	5.52	
33 51 29 00-0017	CF		Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	10.81	
33 51 29 00-0018	CY		Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts.....	134.98	
33 51 29 00-0019	EA		4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well.....	1,091.60	13.51
Note: Includes drilling, concrete footing, pipe and concrete fill.					
For Galvanized Steel, Add				129.71	
For 304 Stainless Steel, Add				1,030.02	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add				1,338.48	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add				654.60	
For Schedule 80, Add				147.31	
33 51 29 00-0020 Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)					
33 51 29 00-0021	EA		17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12).....	367.83	143.91
33 51 29 00-0022	EA		17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18).....	502.24	143.91
33 51 29 00-0023	EA		17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18).....	636.82	143.91

33	Utilities
33 50	Hydrocarbon Utilities
33 51	Hydrocarbon Sources



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 51 29 00-0024	EA	Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D).....	287.11	34.71
	33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6).....	171.56	50.50
	33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8).....	192.39	50.50
33 51 29 00-0027			Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)		
	33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread.....	33.38	
	33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Couplier.....	74.70	
	33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well.....	143.24	
	33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well.....	214.29	
33 51 29 00-0032			Soil Vapor Gas Extraction Well (33 51 29)		
33 51 29 00-0033			Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)		
	33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	1,063.53	
	33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	1,302.67	
33 51 29 00-0036			Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032)		
			Note: Excludes well gravel or materials.		
	33 51 29 00-0037	LF	6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	25.24	
	33 51 29 00-0038	LF	8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	29.96	
	33 51 29 00-0039	LF	10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	40.06	
	33 51 29 00-0040	LF	12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	62.69	
	33 51 29 00-0041	LF	18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	140.03	
33 51 29 00-0042			Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)		
	33 51 29 00-0043	LF	6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	18.31	
	33 51 29 00-0044	LF	8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	27.09	
	33 51 29 00-0045	LF	10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	37.87	
	33 51 29 00-0046	LF	12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	48.47	
	33 51 29 00-0047	LF	18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.....	88.37	
33 51 29 00-0048			Soil Vapor Gas Extraction Well Head (33 51 29 00-0032)		
	33 51 29 00-0049	EA	Soil Vapor Gas Extraction Well Head Assembly.....	1,629.34	
	33 51 29 00-0050	EA	Soil Vapor Gas Extraction Well Head Concrete Cap.....	1,306.67	
	33 51 29 00-0051	EA	Soil Vapor Gas Extraction Well Locking Enclosure.....	1,053.29	
	33 51 29 00-0052	CF	Soil Vapor Gas Extraction Well Neat Cement.....	9.01	
	33 51 29 00-0053	CF	Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).....	10.81	
	33 51 29 00-0054	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well.....	1,091.60	13.51
			Note: Includes drilling, concrete footing, pipe and concrete fill.		
			For Galvanized Steel, Add	129.71	
			For 304 Stainless Steel, Add	1,030.02	
			For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,338.48	
			For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	654.60	
			For Schedule 80, Add	147.31	
	33 51 29 00-0055	LF	1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well.....	3.31	
			For Work In Restricted Working Space, Add	0.91	
	33 51 29 00-0056	EA	1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC21) For Soil Vapor Gas Extraction Well.....	75.03	19.78
33 51 29 00-0057			Soil Vapor Gas Extraction Well Riser Pipe (33 51 29 00-0032)		
	33 51 29 00-0058	LF	3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread.....	4.87	
	33 51 29 00-0059	LF	3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe.....	12.67	
33 52 Hydrocarbon Transmission and Distribution (33 50)					
33 52 16 Gas Hydrocarbon Piping (33 52)					
33 52 16 13 Steel Natural Gas Piping (33 52 16)					
33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)					
			Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 53 Hydrocarbon Utility Pressure Regulation (33 50)					
33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)					
33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)					
	33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End.....	277.67	19.78
	33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End.....	282.16	19.78
	33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End.....	292.94	23.50
	33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End.....	1,023.22	27.20
	33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End.....	1,080.05	42.13
	33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End.....	3,050.07	94.52
	33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End.....	4,244.47	125.28



Utilities	33	CS
Hydrocarbon Utilities	33 50	
Hydrocarbon Utility Pressure Regulation	33 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 59 Hydrocarbon Utility Metering (33 59)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

	EA	250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	655.82	
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0002	EA	425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	1,315.90	118.44
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	1,564.49	118.44
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	3,516.34	148.05
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	3,963.33	182.22
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	5,292.60	148.05
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	5,874.78	182.22
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	7,793.24	193.61
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	11,061.70	227.77
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	16,870.94	375.82
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	

33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	13,445.84	394.53
33 59 16 00-0002	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	14,646.94	458.15
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	22,720.82	493.43
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	44,262.29	600.70
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	72,674.83	750.86

33 70 Electrical Utilities (33)

33 71 Electrical Utility Transmission and Distribution (33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)

33 71 19 13-0001 Electrical Handholes And Pull Boxes (33 71 19 13)

33 71 19 13-0002 Electrical Pull Boxes (33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete.....	2,441.89	533.39
33 71 19 13-0003	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete.....	2,950.60	591.22
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete.....	3,438.78	642.63
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete.....	5,471.60	771.16
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete.....	5,864.53	771.16
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete.....	6,321.64	803.29
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete.....	7,283.02	899.68
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete.....	2,576.57	591.22
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete.....	1,281.20	385.58
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete.....	1,621.23	771.16
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete.....	2,203.12	899.68
33 71 19 13-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete.....	1,401.91	224.92
33 71 19 13-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete.....	1,479.39	240.99

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 13-0001)

	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box.....	138.99	
33 71 19 13-0017	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	55.80	
33 71 19 13-0019	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	85.61	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 71 19 13-0020	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	181.92	
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	281.77	
		<i>For Galvanized Steel Cover, Add</i>	<i>48.34</i>	
33 71 19 13-0022	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....	70.25	
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....	70.25	
33 71 19 13-0024	EA	Body, CALTRANS 5 Precast Concrete Pull Box.....	198.73	
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	74.71	
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	104.52	
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box.....	373.94	
		<i>For Galvanized Steel Cover, Add</i>	<i>88.63</i>	
33 71 19 13-0028	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box.....	99.79	
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	93.29	
33 71 19 13-0030	EA	Body, CALTRANS 6 Precast Concrete Pull Box.....	217.64	
33 71 19 13-0031	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	100.12	
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	129.92	
33 71 19 13-0033	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	513.38	
		<i>For Galvanized Steel Cover, Add</i>	<i>124.08</i>	
33 71 19 13-0034	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	118.70	
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	111.61	
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	154.15	
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	312.10	
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	449.57	
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	142.33	
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	130.51	
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box.....	406.71	
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box.....	650.45	
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	170.69	
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box.....	165.96	
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box.....	579.23	
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	910.42	
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	288.86	
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	225.05	
33 71 19 13-0049	EA	24" x 36" Handhole (SDG&E 3313K/T).....	231.60	
33 71 19 13-0050	EA	24" x 36" Traffic Cover (SDG&E 3313CSTG).....	1,869.47	

33 71 19 13-0051 Precast Concrete Box Extensions (33 71 19 13-0001)

33 71 19 13-0052	EA	14" x 20" x 12", Precast Concrete Extension.....	221.80	42.22
33 71 19 13-0053	EA	18" x 28" x 12", Precast Concrete Extension.....	278.65	53.48
33 71 19 13-0054	EA	24" x 36" x 12", Precast Concrete Extension.....	363.84	73.18
33 71 19 13-0055	EA	30" x 48" x 12", Precast Concrete Extension.....	449.91	101.33
33 71 19 13-0056	EA	36" x 60" x 12", Precast Concrete Extension.....	717.01	123.84
33 71 19 13-0057	EA	36" x 72" x 12", Precast Concrete Extension.....	956.82	140.73
33 71 19 13-0058	EA	48" x 48" x 12", Precast Concrete Extension.....	1,083.12	129.47
33 71 19 13-0059	EA	48" x 60" x 12", Precast Concrete Extension.....	1,328.38	151.99

33 71 19 13-0060 Electrical Property Line Boxes (33 71 19 13)

33 71 19 13-0061	EA	3'-6" x 2'-9" x 2' Deep Property Line Box.....	5,183.32	433.77
33 71 19 13-0062	EA	4'-6" x 3'-6" x 4' Deep Property Line Box.....	6,096.86	449.85
33 71 19 13-0063	EA	6' x 4' x 5' Deep Property Line Box.....	6,684.77	546.23
33 71 19 13-0064	EA	11'-6" x 4'-6" x 6' Deep Property Line Box.....	10,238.16	803.29

33 71 19 13-0065 Manhole Accessories (33 71 19 13)

33 71 19 13-0066	EA	6" Precast Grade Ring Riser Casting.....	495.84	146.93
33 71 19 13-0067	EA	12" Precast Grade Ring Riser Casting.....	536.99	159.18
33 71 19 13-0068	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	2,479.28	244.89
33 71 19 13-0069	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	3,238.81	306.11
33 71 19 13-0070	EA	Cast Iron Adjusting Ring (NEENAH #R-1979).....	1,031.08	163.47
33 71 19 13-0071	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B).....	1,317.39	183.66

33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)**33 71 19 23-0001 Underground Ductbank (33 71 19 23)**

Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.

33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001)

Note: Includes appropriate spacers and fittings.

33 71 19 23-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank.....	37.51	
33 71 19 23-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank.....	75.07	
33 71 19 23-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank.....	77.66	
33 71 19 23-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank.....	155.76	
33 71 19 23-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank.....	114.38	
33 71 19 23-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank.....	229.87	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				33 71 19 23-0009 LF 6 At 4", Rigid Galvanized Conduit Duct Bank	345.30	
				33 71 19 23-0010 LF 2 At 5", Rigid Galvanized Conduit Duct Bank	216.64	
				33 71 19 23-0011 LF 4 At 5", Rigid Galvanized Conduit Duct Bank	432.17	
				33 71 19 23-0012 LF 6 At 5", Rigid Galvanized Conduit Duct Bank	664.17	
				33 71 19 23-0013 LF 2 At 6", Rigid Galvanized Conduit Duct Bank	307.69	
				33 71 19 23-0014 LF 4 At 6", Rigid Galvanized Conduit Duct Bank	617.66	
				33 71 19 23-0015 LF 6 At 6", Rigid Galvanized Conduit Duct Bank	919.74	
				33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System <small>(33 71 19 23-0001)</small>		
				Note: Includes appropriate spacers and fittings.		
				33 71 19 23-0017 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	9.01	
				33 71 19 23-0018 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	19.58	
				33 71 19 23-0019 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	37.79	
				33 71 19 23-0020 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	12.02	
				33 71 19 23-0021 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	23.99	
				33 71 19 23-0022 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	48.60	
				33 71 19 23-0023 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	16.45	
				33 71 19 23-0024 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	32.95	
				33 71 19 23-0025 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	66.00	
				33 71 19 23-0026 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	98.95	
				33 71 19 23-0027 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	21.44	
				33 71 19 23-0028 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	42.81	
				33 71 19 23-0029 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	83.35	
				33 71 19 23-0030 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	119.43	
				33 71 19 23-0031 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.59	
				33 71 19 23-0032 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	58.61	
				33 71 19 23-0033 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	117.44	
				33 71 19 23-0034 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	187.32	
				33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System <small>(33 71 19 23-0001)</small>		
				Note: Includes appropriate spacers and fittings.		
				33 71 19 23-0036 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	10.04	
				33 71 19 23-0037 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	21.69	
				33 71 19 23-0038 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	41.78	
				33 71 19 23-0039 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	12.61	
				33 71 19 23-0040 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	25.21	
				33 71 19 23-0041 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	50.17	
				33 71 19 23-0042 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.08	
				33 71 19 23-0043 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	34.21	
				33 71 19 23-0044 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	68.52	
				33 71 19 23-0045 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	102.74	
				33 71 19 23-0046 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	22.39	
				33 71 19 23-0047 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	44.71	
				33 71 19 23-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	87.16	
				33 71 19 23-0049 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	125.15	
				33 71 19 23-0050 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	37.91	
				33 71 19 23-0051 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	61.35	
				33 71 19 23-0052 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	122.91	
				33 71 19 23-0053 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	195.53	
				33 71 19 23-0054 Male Or Female Adapters <small>(33 71 19 23-0001)</small>		
				33 71 19 23-0055 EA 2" Adapter.....	46.06	
				33 71 19 23-0056 EA 3" Adapter.....	71.65	
				33 71 19 23-0057 EA 4" Adapter.....	94.47	
				33 71 19 23-0058 EA 5" Adapter.....	160.82	
				33 71 19 23-0059 EA 6" Adapter.....	195.22	
				33 71 19 23-0060 Underground Cable Protection Slab And Marking <small>(33 71 19 23)</small>		
				33 71 19 23-0061 EA 24" x 12", 2" Concrete, Underground Cable Protection	5.52	
				33 71 19 23-0062 Underground Electrical Concrete Markers <small>(33 71 19 23)</small>		
				33 71 19 23-0063 EA 36" x 6" x 6", Underground Electric Concrete Marker	365.38	

END OF SECTION 33

33	33	Utilities
	33 70	Electrical Utilities
	33 71	Electrical Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001	Realign Railroad Track ^(34 01 23 33)		
34 01 23 33-0002	LF Removal Of Track Rails and Ties And Re-Install Including New Bolts And Spikes		103.05
34 01 23 33-0003	EA Removal Of Railroad Track Turnouts And Re-Install Including New Bolts And Spikes		5,019.21

34 01 43 Operation and Maintenance of Bridges ^(34 01)

34 01 43 00-0001	Repair Of Bridge Posts ^(34 01 43)		
34 01 43 00-0002	SF Chipping Of Concrete To Expose Rebar		36.78
34 01 43 00-0003	EA Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High		2,137.57
<small>Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.</small>			
34 01 43 00-0004	EA Repair Bearing Pad		761.56

34 01 43 00-0005	Repair Of Bridge Rails ^(34 01 43)		
34 01 43 00-0006	EA Repair Concrete Rail Supports		384.35
34 01 43 00-0007	LF Repair Guardrail		144.13
34 01 43 00-0008	LF Repair Bridge Parapet Wall		240.22
34 01 43 00-0009	LF Repair Bridge Rail		92.43
34 01 43 00-0010	LF Repair Damaged Metal Rail And Posts		48.94
34 01 43 00-0011	LF Removal And Replacement Of 1-1/2" Galvanized Metal Rail		59.84
34 01 43 00-0012	LF Removal And Replacement Of 2-1/2" Galvanized Metal Rail		83.02
34 01 43 00-0013	LF Removal And Replacement Of 3" Galvanized Metal Rail		95.64

34 01 43 00-0014	Repair Of Bridge ^(34 01 43)		
34 01 43 00-0015	LF Repair Of Expansion Joints On Bridge		23.01

34 05 Common Work Results for Transportation ⁽³⁴⁾

34 05 43 Common Work Results for Bridges ^(34 05)

34 05 43 00-0001	Mobilize Bridge Crew ^(34 05 43)		
<small>Note: Excludes mobilize jacking crew.</small>			
34 05 43 00-0002	EA Mobilize Bridge Crew		1,311.15

34 05 43 00-0003	Remove And Patch Bridge And Structures Concrete ^(34 05 43)		
<small>Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.</small>			

34 05 43 00-0004	Remove And Patch Decks Or Floors ^(34 05 43 00-0003)		
<small>Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.</small>			
34 05 43 00-0005	EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material		2,375.98
34 05 43 00-0006	SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material		101.04
34 05 43 00-0007	EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material		2,453.62
34 05 43 00-0008	SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material		105.90
34 05 43 00-0009	EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate		2,436.44
34 05 43 00-0010	SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate		104.82
34 05 43 00-0011	EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)		3,752.48
<small>For Owner Furnished Material, Deduct</small>			
34 05 43 00-0012	SF Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)		187.07
<small>For Owner Furnished Material, Deduct</small>			
-100.81			

34 05 43 00-0013	Remove And Patch Verticals Or Overheads ^(34 05 43 00-0003)		
<small>Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.</small>			
34 05 43 00-0014	EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material		2,797.79
34 05 43 00-0015	SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material		122.13
34 05 43 00-0016	EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material		2,875.43
34 05 43 00-0017	SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material		126.99
34 05 43 00-0018	EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate		2,858.25
34 05 43 00-0019	SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate		125.91

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-020	EA		Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	4,174.29	
			<i>For Owner Furnished Material, Deduct</i>	-1,613.02	
34 05 43 00-021	SF		Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	208.16	
			<i>For Owner Furnished Material, Deduct</i>	-100.81	
34 05 43 00-022			Remove And Patch Pier Caps And Pedestals (34 05 43 00-0003)		
			Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-023	EA		Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	3,219.60	
34 05 43 00-024	SF		Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	137.95	
34 05 43 00-025	EA		Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	3,297.24	
34 05 43 00-026	SF		Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	142.81	
34 05 43 00-027	EA		Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	3,280.06	
34 05 43 00-028	SF		Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	141.73	
34 05 43 00-029	EA		Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	4,596.10	
			<i>For Owner Furnished Material, Deduct</i>	-1,613.02	
34 05 43 00-030	SF		Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	223.98	
			<i>For Owner Furnished Material, Deduct</i>	-100.81	
34 05 43 00-031			Remove And Patch Circular Piers (34 05 43 00-0003)		
			Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-032	EA		Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	3,852.31	
34 05 43 00-033	SF		Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	153.76	
34 05 43 00-034	EA		Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	3,929.95	
34 05 43 00-035	SF		Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	158.62	
34 05 43 00-036	EA		Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,912.77	
34 05 43 00-037	SF		Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	178.32	
34 05 43 00-038	EA		Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified).....	5,228.81	
			<i>For Owner Furnished Material, Deduct</i>	-1,613.02	
34 05 43 00-039	SF		Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	239.79	
			<i>For Owner Furnished Material, Deduct</i>	-100.81	
34 05 43 00-040			Fiber Reinforced Shotcrete Repair For Bridges (34 05 43)		
34 05 43 00-041	EA		Mobilize Fiber Reinforced Shotcrete Repair Crew.....	855.91	
34 05 43 00-042	SF		Up To 2" Thick, Fiber Reinforced Shotcrete Repair	52.89	
			<i>For Up To 25, Add</i>	25.68	
			<i>For >25 To 50, Add</i>	12.84	
			<i>For >50 To 150, Add</i>	5.14	
34 05 43 00-043	SF		>2" To 4" Thick, Fiber Reinforced Shotcrete Repair	62.97	
			<i>For Up To 25, Add</i>	29.96	
			<i>For >25 To 50, Add</i>	14.98	
			<i>For >50 To 150, Add</i>	5.99	
34 05 43 00-044	SF		>4" To 6" Thick, Fiber Reinforced Shotcrete Repair	73.06	
			<i>For Up To 25, Add</i>	34.24	
			<i>For >25 To 50, Add</i>	17.12	
			<i>For >50 To 150, Add</i>	6.85	
34 05 43 00-045			Bridge Railing (34 05 43)		
34 05 43 00-046			Remove And Store Bridge Railings (34 05 43 00-0045)		
			See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-047	LF		Removal And Storage Of One Rail Bridge Railing.....	7.45	
34 05 43 00-048	LF		Removal And Storage Of Two Rail Bridge Railing.....	14.91	
34 05 43 00-049	LF		Removal And Storage Of Three Rail Bridge Railing	22.36	
34 05 43 00-050	LF		Removal And Storage Of Four Rail Bridge Railing	29.81	
34 05 43 00-051			Install Stored Or Supplied Bridge Railings (34 05 43 00-0045)		
			See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-052	LF		Install Stored Or Supplied One Rail Bridge Railing.....	62.81	
34 05 43 00-053	LF		Install Stored Or Supplied Two Rail Bridge Railing	125.60	
34 05 43 00-054	LF		Install Stored Or Supplied Three Rail Bridge Railing	188.41	
34 05 43 00-055	LF		Install Stored Or Supplied Four Rail Bridge Railing	251.22	
34 05 43 00-056			Bridge Bearings (34 05 43)		
			Note: Excludes drilling and anchor bolts.		
34 05 43 00-057			Elastomeric Bearings (34 05 43 00-0056)		
34 05 43 00-058	EA		Plain Elastomeric, Type EP Bearing, 716-10, All Loads	1,194.57	321.09
34 05 43 00-059	EA		Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K	1,789.07	642.19
			<i>For >100K To 250K Load, Add</i>	90.61	
			<i>For >250K To 500K Load, Add</i>	181.21	
			<i>For >500K To 750K Load, Add</i>	271.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K <i>For >100K To 250K Load, Add</i> <i>For >250K To 500K Load, Add</i> <i>For >500K To 750K Load, Add</i>	4,072.93 274.84 549.68 824.52	963.29
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	3,582.53	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	5,473.76	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	7,364.97	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	4,442.90	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	6,795.10	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	9,151.28	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	4,601.28	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	7,032.61	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	9,467.96	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	461.58	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	923.16	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,384.73	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	692.37	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,384.73	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	2,077.10	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	1,080.23	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	1,220.41	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,360.57	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,437.06	
<i>For Vacuum Contained Cleaning, Add</i>	356.79	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,621.77	
<i>For Vacuum Contained Cleaning, Add</i>	401.37	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,806.10	
<i>For Vacuum Contained Cleaning, Add</i>	445.86	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates	673.91	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates	810.88	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates	947.88	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	898.71	
<i>For Vacuum Contained Cleaning, Add</i>	223.00	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,078.46	
<i>For Vacuum Contained Cleaning, Add</i>	267.58	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,257.84	
<i>For Vacuum Contained Cleaning, Add</i>	312.07	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,722.43	
<i>For Vacuum Contained Cleaning, Add</i>	428.13	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	1,942.87	
<i>For Vacuum Contained Cleaning, Add</i>	481.65	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	2,163.32	
<i>For Vacuum Contained Cleaning, Add</i>	535.16	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,077.04	
<i>For Vacuum Contained Cleaning, Add</i>	267.58	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,292.53	
<i>For Vacuum Contained Cleaning, Add</i>	321.10	
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,508.03	
<i>For Vacuum Contained Cleaning, Add</i>	374.62	
34 05 43 00-0106 Grease Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	66.89	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	100.34	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	133.80	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad (34 05 43 00-0073)		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad	459.43	
34 05 43 00-0112 Bridge Bearing Rivet Removal (34 05 43 00-0073)		
See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal.....	267.58	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel	274.03	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper	280.05	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	170.13	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	170.13	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	170.13	
34 05 43 00-0120 Vertical Jacking And Lifting For Bridges (34 05 43)		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment (34 05 43 00-0120)		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment.....	2,408.23	
<i>For Temporary Support Mobilization, Add</i>	4,816.46	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120)		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact.....	401.38	
<i>For Synchronized Lift, Add</i>	80.28	
<i>For Jacking From Temporary Support, Add</i>	160.55	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact	468.27	
<i>For Synchronized Lift, Add</i>	93.65	
<i>For Jacking From Temporary Support, Add</i>	187.31	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact	535.16	
<i>For Synchronized Lift, Add</i>	107.03	
<i>For Jacking From Temporary Support, Add</i>	214.06	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact	602.05	
<i>For Synchronized Lift, Add</i>	120.41	
<i>For Jacking From Temporary Support, Add</i>	240.82	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact	668.96	
<i>For Synchronized Lift, Add</i>	133.79	
<i>For Jacking From Temporary Support, Add</i>	267.58	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact	735.85	
<i>For Synchronized Lift, Add</i>	147.17	
<i>For Jacking From Temporary Support, Add</i>	294.34	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact	802.74	
<i>For Synchronized Lift, Add</i>	160.55	
<i>For Jacking From Temporary Support, Add</i>	321.10	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact	836.19	
<i>For Synchronized Lift, Add</i>	167.24	
<i>For Jacking From Temporary Support, Add</i>	334.48	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact	869.63	
<i>For Synchronized Lift, Add</i>	173.93	
<i>For Jacking From Temporary Support, Add</i>	347.85	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact	869.63	
<i>For Synchronized Lift, Add</i>	173.93	
<i>For Jacking From Temporary Support, Add</i>	347.85	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact	936.54	
<i>For Synchronized Lift, Add</i>	187.31	
<i>For Jacking From Temporary Support, Add</i>	374.62	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact	1,003.43	
<i>For Synchronized Lift, Add</i>	200.69	
<i>For Jacking From Temporary Support, Add</i>	401.37	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact	1,070.32	
<i>For Synchronized Lift, Add</i>	214.06	
<i>For Jacking From Temporary Support, Add</i>	428.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact.....	1,137.22	
				<i>For Synchronized Lift, Add</i>	227.44	
				<i>For Jacking From Temporary Support, Add</i>	454.89	
34 05 43 00-0138				Daily Charge For Vertical Jacking Equipment <small>(34 05 43 00-0120)</small>		
				Note: Includes hydraulics and synchronizing equipment.		
				34 05 43 00-0139 DAY Up To 10 Ton Jacking Equipment Charge By The Day.....	21.12	
				34 05 43 00-0140 DAY >10 To 20 Ton Jacking Equipment Charge By The Day.....	42.25	
				34 05 43 00-0141 DAY >20 To 40 Ton Jacking Equipment Charge By The Day.....	84.49	
				34 05 43 00-0142 DAY >40 To 60 Ton Jacking Equipment Charge By The Day.....	126.74	
				34 05 43 00-0143 DAY >60 To 80 Ton Jacking Equipment Charge By The Day.....	168.98	
				34 05 43 00-0144 DAY >80 To 100 Ton Jacking Equipment Charge By The Day.....	211.23	
				34 05 43 00-0145 DAY >100 To 120 Ton Jacking Equipment Charge By The Day.....	253.47	
				34 05 43 00-0146 DAY >120 To 140 Ton Jacking Equipment Charge By The Day.....	295.72	
				34 05 43 00-0147 DAY >140 To 160 Ton Jacking Equipment Charge By The Day.....	337.97	
				34 05 43 00-0148 DAY >160 To 250 Ton Jacking Equipment Charge By The Day.....	385.65	
				34 05 43 00-0149 DAY >250 To 300 Ton Jacking Equipment Charge By The Day.....	439.64	
				34 05 43 00-0150 DAY >300 To 400 Ton Jacking Equipment Charge By The Day.....	556.88	
				34 05 43 00-0151 DAY >400 To 500 Ton Jacking Equipment Charge By The Day.....	661.28	
				34 05 43 00-0152 DAY >500 To 600 Ton Jacking Equipment Charge By The Day.....	753.89	
34 05 43 00-0153				Temporary Shoring <small>(34 05 43 00-0120)</small>		
				Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154				HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
				34 05 43 00-0155 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	3,333.83	
				34 05 43 00-0156 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	2,393.71	
				34 05 43 00-0157 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	427.39	
34 05 43 00-0158				HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
				34 05 43 00-0159 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	3,476.65	
				34 05 43 00-0160 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	2,268.46	
				34 05 43 00-0161 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	409.99	
34 05 43 00-0162				HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
				34 05 43 00-0163 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	2,357.70	
				34 05 43 00-0164 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	1,131.34	
				34 05 43 00-0165 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	261.00	
34 05 43 00-0166				HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
				34 05 43 00-0167 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	6,137.56	
				34 05 43 00-0168 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	3,508.57	
				34 05 43 00-0169 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	702.53	
34 05 43 00-0170				Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring <small>(34 05 43 00-0153)</small>		
				Note: Excludes mats. See CSI section 01 22 23 00-0565 for mats.		
				34 05 43 00-0171 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup.....	6,209.30	
				Note: Excludes mats.		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0172 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation.....	2,201.04	
Note: Excludes mats.		
34 05 43 00-0173 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal.....	1,072.28	
Note: Excludes mats.		
34 05 43 00-0174 Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
Note: Excludes mats. See CSI section 01 22 23 00-0565 for mats.		
34 05 43 00-0175 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	2,635.17	
34 05 43 00-0176 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	661.57	
Note: Excludes mats.		
34 05 43 00-0177 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	367.58	
Note: Excludes mats.		
34 05 43 00-0178 MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0179 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup.....	3,789.28	
34 05 43 00-0180 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation.....	3,542.61	
34 05 43 00-0181 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	358.88	
34 05 43 00-0182 MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0183 EA WT15x74 Attached To Abutment Face, Temporary Shoring Setup.....	2,525.69	
34 05 43 00-0184 EA WT15x74 Attached To Abutment Face, Temporary Shoring Relocation.....	2,328.05	
34 05 43 00-0185 EA WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	295.80	
34 05 43 00-0186 Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0187 EA Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup.....	1,457.30	
Note: Left in place.		
34 05 43 00-0188 Temporary Bridge Shoring Components <small>(34 05 43 00-0153)</small>		
Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0041 for temporary lumber.		
34 05 43 00-0189 Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small>		
Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190 LF Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring.....	102.72	
Note: Remove after use.		
34 05 43 00-0191 LF Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring.....	227.11	
Note: Remove after use.		
34 05 43 00-0192 LF Fabricate And Install HP12 x 53 For Temorary Bridge Shoring.....	180.28	
Note: Remove after use.		
34 05 43 00-0193 LF Fabricate And Install HP12 x 63 For Temorary Bridge Shoring.....	202.47	
Note: Remove after use.		
34 05 43 00-0194 LF Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring.....	25.69	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	6.63	
34 05 43 00-0195 LF Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring.....	32.76	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	9.02	
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring.....	66.49	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	20.40	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring.....	57.73	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	18.27	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring.....	76.39	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	24.18	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring.....	105.71	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	3.23	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring.....	147.98	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	4.52	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring.....	232.54	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	7.11	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring.....	253.69	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	7.76	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203				Relocate Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small> Note: Includes removal after use.		
34 05 43 00-0204	EA			Relocate Complete Temporary Steel Bridge Shoring .....4,696.51 Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.	4,696.51	
34 05 43 00-0205	SF			Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring .....90.37 Note: Remove after use.	90.37	
34 05 43 00-0206	LF			Relocate HP12 x 63 For Temporary Bridge Shoring.....75.15 Note: Remove after use.	75.15	
34 05 43 00-0207	LF			Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring.....15.00 Note: Remove after use.	15.00	
34 05 43 00-0208	LF			Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring.....18.21 Note: Remove after use.	18.21	
34 05 43 00-0209	LF			Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring.....37.39 Note: Remove after use.	37.39	
34 05 43 00-0210	SF			Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring.....57.51 Note: Remove after use.	57.51	
34 05 43 00-0211	LF			Relocate MC7 x 19.1 For Temporary Bridge Shoring .....43.57 Note: Remove after use.	43.57	
34 05 43 00-0212	LF			Relocate HP12 x 53 For Temporary Bridge Shoring.....73.58 Note: Remove after use.	73.58	
34 05 43 00-0213	SF			Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring.....41.09 Note: Remove after use.	41.09	
34 05 43 00-0214	LF			Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring.....33.59 Note: Remove after use.	33.59	
34 05 43 00-0215	SF			Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring .....98.59 Note: Remove after use.	98.59	
34 05 43 00-0216	LF			Relocate MC18 x 51.9 For Temporary Bridge Shoring .....125.77 Note: Remove after use.	125.77	
34 05 43 00-0217	LF			Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring.....28.26 Note: Remove after use.	28.26	
34 05 43 00-0218				Pier Caps And Pedestal Replacement For Bridges <small>(34 05 43)</small> See CSI section 03 15 19 00-0001 for anchor bolts.		
34 05 43 00-0219	SF			Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges.....29.70	29.70	
34 05 43 00-0220	CWT			Rebar For Pier Cap Or Pedestals For Bridges .....464.70	464.70	
34 05 43 00-0221	CY			Pour Pedestals For Bridges.....410.03	410.03	
34 05 43 00-0222	CY			Demolish Concrete Pedestals For Bridges .....4,431.59	4,431.59	
34 05 43 00-0223	CY			Pour Pier Cap For Bridges.....484.90	484.90	
34 05 43 00-0224	CY			Demolish Concrete Pier Cap For Bridges.....5,095.83	5,095.83	
34 05 43 00-0225				Bridge Deck Repair <small>(34 05 43)</small>		
34 05 43 00-0226				Bridge Expansion Joint Repair <small>(34 05 43 00-0225)</small> Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.		
34 05 43 00-0227	CF			Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System For Bridge Expansion Joint Repair.....943.73	943.73	
34 05 43 00-0228	CF			Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Expansion Joint Repair.....221.18 Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	221.18	
				<i>For Up To 24, Add</i> 38.47		
34 05 43 00-0229	CF			Removal And Replacement Of Header With Polyester-Based Polymer Patch For Bridge Expansion Joint Repair.....226.01 Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	226.01	
				<i>For Up To 24, Add</i> 38.96		
34 05 43 00-0230	CI			Seal Expansion Joints With Rapid Cure Silicone For Bridge Expansion Joint Repair .....7.22	7.22	
34 05 43 00-0231	CI			Seal Expansion Joints With Closed Cell Foam/EVA For Bridge Expansion Joint Repair .....0.82	0.82	
34 05 43 00-0232	LF			Seal Expansion Joints With "V" Shape Preformed Silicone For Bridge Expansion Joint Repair.....94.30 <i>For >1,000 To 2,500, Deduct</i> -9.43 <i>For >2,500, Deduct</i> -15.35	94.30	
34 05 43 00-0233	LF			Seal Expansion Joints With "W" Shape Preformed Silicone For Bridge Expansion Joint Repair.....99.99 <i>For >1,000 To 2,500, Deduct</i> -10.00 <i>For >2,500, Deduct</i> -16.21	99.99	
34 05 43 00-0234				Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck <small>(34 05 43 00-0225)</small> Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.		
34 05 43 00-0235	LF			1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....193.25 <i>For >1,000 To 2,500, Deduct</i> -19.33 <i>For >2,500, Deduct</i> -32.77	193.25	
34 05 43 00-0236	LF			1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck .....219.76 <i>For >1,000 To 2,500, Deduct</i> -21.98 <i>For >2,500, Deduct</i> -36.90	219.76	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0237	LF		1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	172.27	
			<i>For >1,000 To 2,500, Deduct</i>	-17.23	
			<i>For >2,500, Deduct</i>	-29.48	
34 05 43 00-0238	LF		1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	170.10	
			<i>For >1,000 To 2,500, Deduct</i>	-17.01	
			<i>For >2,500, Deduct</i>	-29.15	
34 05 43 00-0239			Silicone Joint Sealant For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
			Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.		
34 05 43 00-0240	LF		1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	27.89	
			<i>For >1,000 To 2,500, Deduct</i>	-2.79	
			<i>For >2,500, Deduct</i>	-5.01	
34 05 43 00-0241	LF		1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	36.54	
			<i>For >1,000 To 2,500, Deduct</i>	-3.65	
			<i>For >2,500, Deduct</i>	-6.32	
34 05 43 00-0242	LF		2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	51.73	
			<i>For >1,000 To 2,500, Deduct</i>	-5.17	
			<i>For >2,500, Deduct</i>	-8.62	
34 05 43 00-0243	LF		2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	55.38	
			<i>For >1,000 To 2,500, Deduct</i>	-5.54	
			<i>For >2,500, Deduct</i>	-9.18	
34 05 43 00-0244			V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
			Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.		
34 05 43 00-0245	LF		3" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	91.81	
			<i>For >1,000 To 2,500, Deduct</i>	-9.18	
			<i>For >2,500, Deduct</i>	-16.21	
34 05 43 00-0246	LF		4" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	96.99	
			<i>For >1,000 To 2,500, Deduct</i>	-9.70	
			<i>For >2,500, Deduct</i>	-17.10	
34 05 43 00-0247			J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
			Note: Includes saw cutting, sand blasting, conditioner, and epoxy.		
34 05 43 00-0248	LF		2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	93.25	
			<i>For >1,000 To 2,500, Deduct</i>	-9.33	
			<i>For >2,500, Deduct</i>	-16.21	
34 05 43 00-0249	LF		2-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	111.06	
			<i>For >1,000 To 2,500, Deduct</i>	-11.11	
			<i>For >2,500, Deduct</i>	-18.98	
34 05 43 00-0250	LF		3" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	137.55	
			<i>For >1,000 To 2,500, Deduct</i>	-13.76	
			<i>For >2,500, Deduct</i>	-23.07	
34 05 43 00-0251	LF		3-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	167.03	
			<i>For >1,000 To 2,500, Deduct</i>	-16.70	
			<i>For >2,500, Deduct</i>	-27.60	
34 05 43 00-0252	LF		4" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	186.60	
			<i>For >1,000 To 2,500, Deduct</i>	-18.66	
			<i>For >2,500, Deduct</i>	-30.66	
34 05 43 00-0253	LF		5" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	344.64	
			<i>For >1,000 To 2,500, Deduct</i>	-34.46	
			<i>For >2,500, Deduct</i>	-54.62	
34 05 43 00-0254			Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
			Note: Includes saw cutting, sand blasting, and lubricant adhesive.		
34 05 43 00-0255	LF		1-1/4" x 1-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	48.89	
			<i>For >1,000 To 2,500, Deduct</i>	-4.89	
			<i>For >2,500, Deduct</i>	-9.35	
34 05 43 00-0256	LF		1-5/8" x 1-7/8" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	53.15	
			<i>For >1,000 To 2,500, Deduct</i>	-5.32	
			<i>For >2,500, Deduct</i>	-10.09	
34 05 43 00-0257	LF		1-3/4" x 1-3/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	55.66	
			<i>For >1,000 To 2,500, Deduct</i>	-5.57	
			<i>For >2,500, Deduct</i>	-10.52	
34 05 43 00-0258	LF		2" x 2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	58.72	
			<i>For >1,000 To 2,500, Deduct</i>	-5.87	
			<i>For >2,500, Deduct</i>	-11.03	
34 05 43 00-0259	LF		2-1/2" x 2-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	66.24	
			<i>For >1,000 To 2,500, Deduct</i>	-6.62	
			<i>For >2,500, Deduct</i>	-12.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0260 LF 3" x 3-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	75.96	
<i>For >1,000 To 2,500, Deduct</i>	-7.60	
<i>For >2,500, Deduct</i>	-13.83	
34 05 43 00-0261 LF 3-1/2" x 3-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	89.43	
<i>For >1,000 To 2,500, Deduct</i>	-8.94	
<i>For >2,500, Deduct</i>	-15.96	
34 05 43 00-0262 LF 4" x 4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	103.14	
<i>For >1,000 To 2,500, Deduct</i>	-10.31	
<i>For >2,500, Deduct</i>	-18.14	
34 05 43 00-0263 LF 4-1/2" x 4-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	108.82	
<i>For >1,000 To 2,500, Deduct</i>	-10.88	
<i>For >2,500, Deduct</i>	-19.12	
34 05 43 00-0264 LF 5" x 5" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	124.54	
<i>For >1,000 To 2,500, Deduct</i>	-12.45	
<i>For >2,500, Deduct</i>	-21.61	
34 05 43 00-0265 LF 6" x 6" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	178.00	
<i>For >1,000 To 2,500, Deduct</i>	-17.80	
<i>For >2,500, Deduct</i>	-29.76	
34 05 43 00-0266 Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267 LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	42.57	
<i>For >1,000 To 2,500, Deduct</i>	-4.26	
<i>For >2,500, Deduct</i>	-8.22	
34 05 43 00-0268 LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	43.78	
<i>For >1,000 To 2,500, Deduct</i>	-4.38	
<i>For >2,500, Deduct</i>	-8.45	
34 05 43 00-0269 LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	44.98	
<i>For >1,000 To 2,500, Deduct</i>	-4.50	
<i>For >2,500, Deduct</i>	-8.67	
34 05 43 00-0270 LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	46.53	
<i>For >1,000 To 2,500, Deduct</i>	-4.65	
<i>For >2,500, Deduct</i>	-8.95	
34 05 43 00-0271 LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	48.12	
<i>For >1,000 To 2,500, Deduct</i>	-4.81	
<i>For >2,500, Deduct</i>	-9.24	
34 05 43 00-0272 LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	65.80	
<i>For >1,000 To 2,500, Deduct</i>	-6.58	
<i>For >2,500, Deduct</i>	-11.94	
34 05 43 00-0273 LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	70.03	
<i>For >1,000 To 2,500, Deduct</i>	-7.00	
<i>For >2,500, Deduct</i>	-12.67	
34 05 43 00-0274 LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	72.66	
<i>For >1,000 To 2,500, Deduct</i>	-7.27	
<i>For >2,500, Deduct</i>	-13.12	
34 05 43 00-0275 LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	76.70	
<i>For >1,000 To 2,500, Deduct</i>	-7.67	
<i>For >2,500, Deduct</i>	-13.78	
34 05 43 00-0276 LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	81.26	
<i>For >1,000 To 2,500, Deduct</i>	-8.13	
<i>For >2,500, Deduct</i>	-14.51	
34 05 43 00-0277 LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	86.03	
<i>For >1,000 To 2,500, Deduct</i>	-8.60	
<i>For >2,500, Deduct</i>	-15.28	
34 05 43 00-0278 LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	88.56	
<i>For >1,000 To 2,500, Deduct</i>	-8.86	
<i>For >2,500, Deduct</i>	-15.72	
34 05 43 00-0279 LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	96.61	
<i>For >1,000 To 2,500, Deduct</i>	-9.66	
<i>For >2,500, Deduct</i>	-16.98	
34 05 43 00-0280 LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	103.30	
<i>For >1,000 To 2,500, Deduct</i>	-10.33	
<i>For >2,500, Deduct</i>	-18.05	
34 05 43 00-0281 LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	109.05	
<i>For >1,000 To 2,500, Deduct</i>	-10.91	
<i>For >2,500, Deduct</i>	-18.97	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0282	LF		4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	111.72	
			<i>For >1,000 To 2,500, Deduct</i>	-11.17	
			<i>For >2,500, Deduct</i>	-19.43	
34 05 43 00-0283	EA		3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	143.92	
34 05 43 00-0284	EA		1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	148.41	
34 05 43 00-0285	EA		1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	170.03	
34 05 43 00-0286	EA		1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	177.15	
34 05 43 00-0287	EA		1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	183.37	
34 05 43 00-0288	EA		2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	208.29	
34 05 43 00-0289	EA		2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	213.88	
34 05 43 00-0290	EA		2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	220.36	
34 05 43 00-0291	EA		2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	227.22	
34 05 43 00-0292	EA		3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	259.27	
34 05 43 00-0293	EA		3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	271.73	
34 05 43 00-0294	EA		3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	281.88	
34 05 43 00-0295	EA		3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	290.44	
34 05 43 00-0296	EA		4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	294.52	
34 05 43 00-0297			Remove Existing Steel Joint System <small>(34 05 43 00-0225)</small>		
34 05 43 00-0298	LF		Removal Of Existing Steel Joint System.....	65.25	
34 05 43 00-0299			Break-Up And Remove Bridge Decking By Machine <small>(34 05 43 00-0225)</small>		
			Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0300	SY		Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine.....	21.78	
			<i>For >500 To 1,000, Deduct</i>	-2.18	
			<i>For >1,000 To 2,500, Deduct</i>	-3.92	
			<i>For >2,500 To 5,000, Deduct</i>	-5.66	
			<i>For >5,000 To 10,000, Deduct</i>	-7.41	
			<i>For >10,000, Deduct</i>	-9.15	
34 05 43 00-0301	SY		Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine.....	29.75	
			<i>For >500 To 1,000, Deduct</i>	-2.98	
			<i>For >1,000 To 2,500, Deduct</i>	-5.36	
			<i>For >2,500 To 5,000, Deduct</i>	-7.74	
			<i>For >5,000 To 10,000, Deduct</i>	-10.12	
			<i>For >10,000, Deduct</i>	-12.50	
34 05 43 00-0302	SY		Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine.....	36.08	
			<i>For >500 To 1,000, Deduct</i>	-3.61	
			<i>For >1,000 To 2,500, Deduct</i>	-6.49	
			<i>For >2,500 To 5,000, Deduct</i>	-9.38	
			<i>For >5,000 To 10,000, Deduct</i>	-12.27	
			<i>For >10,000, Deduct</i>	-15.15	
34 05 43 00-0303	SY		Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine.....	46.40	
			<i>For >500 To 1,000, Deduct</i>	-4.64	
			<i>For >1,000 To 2,500, Deduct</i>	-8.35	
			<i>For >2,500 To 5,000, Deduct</i>	-12.06	
			<i>For >5,000 To 10,000, Deduct</i>	-15.78	
			<i>For >10,000, Deduct</i>	-19.49	
34 05 43 00-0304	SY		Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine.....	82.94	
			<i>For >500 To 1,000, Deduct</i>	-8.29	
			<i>For >1,000 To 2,500, Deduct</i>	-14.93	
			<i>For >2,500 To 5,000, Deduct</i>	-21.56	
			<i>For >5,000 To 10,000, Deduct</i>	-28.20	
			<i>For >10,000, Deduct</i>	-34.83	
34 05 43 00-0305	SY		Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine.....	108.26	
			<i>For >500 To 1,000, Deduct</i>	-10.83	
			<i>For >1,000 To 2,500, Deduct</i>	-19.49	
			<i>For >2,500 To 5,000, Deduct</i>	-28.15	
			<i>For >5,000 To 10,000, Deduct</i>	-36.81	
			<i>For >10,000, Deduct</i>	-45.47	
34 05 43 00-0306	SY		Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine.....	141.53	
			<i>For >500 To 1,000, Deduct</i>	-14.15	
			<i>For >1,000 To 2,500, Deduct</i>	-25.48	
			<i>For >2,500 To 5,000, Deduct</i>	-36.80	
			<i>For >5,000 To 10,000, Deduct</i>	-48.12	
			<i>For >10,000, Deduct</i>	-59.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	171.76	
For >500 To 1,000, Deduct	-17.18	
For >1,000 To 2,500, Deduct	-30.92	
For >2,500 To 5,000, Deduct	-44.66	
For >5,000 To 10,000, Deduct	-58.40	
For >10,000, Deduct	-72.14	
34 05 43 00-0308 Break-Up And Remove Bridge Decking By Hand <small>(34 05 43 00-0225)</small>		
<small>Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
34 05 43 00-0309 SF Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand	13.75	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0310 SF Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand	18.10	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0311 SF Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand	23.53	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0312 SF Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand	17.20	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0313 SF Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand	21.49	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0314 SF Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand	25.79	
<small>Note: Includes jackhammer and hand tools.</small>		
34 05 43 00-0315 SF Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	6.03	
34 05 43 00-0316 Hydro Blasting Of Bridge Decks <small>(34 05 43 00-0225)</small>		
<small>Note: Excludes hauling and disposal of water and debris.</small>		
34 05 43 00-0317 EA Mobilization Of Hydro Blasting Equipment.....	14,350.83	
<small>Note: Includes trailer with power, hydro milling machine, vacuum machine.</small>		
34 05 43 00-0318 EA Mobilization Of Hydro Blasting Equipment.....	1,863.74	
<small>Note: Includes water tank, pump and miscellaneous fittings.</small>		
34 05 43 00-0319 SF Hydroblasting Of Up To 2-1/2" Of Bridge Decks	12.60	
34 05 43 00-0320 SF Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	9.31	
34 05 43 00-0321 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2".....	2.30	
34 05 43 00-0322 SF Hydroblasting 3" To 4-1/2" Of Bridge Decks.....	18.62	
34 05 43 00-0323 SF Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....	12.60	
34 05 43 00-0324 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2"	6.03	
34 05 43 00-0325 GAL Water For Hydro Blasting	0.18	
<small>Note: Includes delivery.</small>		
34 05 43 00-0326 Patch For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0327 CF Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck	99.12	
<small>Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.</small>		
34 05 43 00-0328 CF Polyester-Based Polymer Patch For Bridge Deck	103.94	
<small>Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.</small>		
34 05 43 00-0329 SF Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....	25.33	
<small>Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.</small>		
34 05 43 00-0330 Pressure Washing For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0331 SF Pressure Washing For Bridge Deck.....	0.09	
<small>Note: Includes pressure washer and water.</small>		
34 05 43 00-0332 Galvanic Anodes For Bridges <small>(34 05 43)</small>		
34 05 43 00-0333 EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP).....	58.20	
<small>Note: Corrosion prevention only (preventing the initiation of corrosion).</small>		
34 05 43 00-0334 EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT).....	58.20	
<small>Note: Corrosion prevention only (preventing the initiation of corrosion).</small>		
34 05 43 00-0335 EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2).....	66.53	
<small>Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).</small>		
34 05 43 00-0336 EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4).....	72.87	
<small>Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).</small>		
34 05 43 00-0337 EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+).....	66.53	
<small>Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).</small>		
34 05 43 00-0338 EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65).....	68.64	
<small>Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).</small>		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0339	EA		1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100).....	83.42	
			Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340	EA		1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....	77.09	
			Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0341			Bridge Netting Panels (34 05 43)		
34 05 43 00-0342	SF		Bridge Netting Panel.....	9.92	
			Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
			For Up To 160, Add	9.68	
			For >160 To 320, Add	4.84	
			For >320 To 480, Add	2.42	
			For >2,000 To 10,000, Deduct	-0.44	
			For >10,000 To 25,000, Deduct	-0.87	
			For >25,000, Deduct	-1.31	
34 05 43 00-0343			Anchors For Bridges (34 05 43)		
			Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.		
34 05 43 00-0344			Threaded Rod, A449 (34 05 43 00-0343)		
34 05 43 00-0345	LF		7/8" Diameter Continuous Threaded Rod, A449.....	20.98	
34 05 43 00-0346	LF		1" Diameter Continuous Threaded Rod, A449.....	24.95	
34 05 43 00-0347	LF		1-1/8" Diameter Continuous Threaded Rod, A449.....	28.92	
34 05 43 00-0348	LF		1-1/4" Diameter Continuous Threaded Rod, A449.....	36.53	
34 05 43 00-0349			Flat Washers, F436 (34 05 43 00-0343)		
34 05 43 00-0350	EA		7/8" Flat Washer, F436.....	2.25	
34 05 43 00-0351	EA		1" Flat Washer, F436.....	2.62	
34 05 43 00-0352	EA		1-1/8" Flat Washer, F436.....	2.89	
34 05 43 00-0353	EA		1-1/4" Flat Washer, F436.....	3.29	
34 05 43 00-0354			Heavy Hex Nut, A194 (34 05 43 00-0343)		
34 05 43 00-0355	EA		7/8" Hex Nut, A194.....	4.56	
34 05 43 00-0356	EA		1" Hex Nut, A194.....	6.19	
34 05 43 00-0357	EA		1-1/8" Hex Nut, A194.....	7.34	
34 05 43 00-0358	EA		1-1/4" Hex Nut, A194.....	8.79	
34 05 43 00-0359			Grout For Threaded Rod (34 05 43 00-0343)		
34 05 43 00-0360	IN		Grout 7/8" Rod In Hole.....	3.12	
34 05 43 00-0361	IN		Grout 1" Rod In Hole.....	3.55	
34 05 43 00-0362	IN		Grout 1-1/8" Rod In Hole.....	4.14	
34 05 43 00-0363	IN		Grout 1-1/4" Rod In Hole.....	4.96	
34 05 43 00-0364			Test Grouted Anchor (34 05 43 00-0343)		
34 05 43 00-0365	EA		Test Grouted Anchor.....	35.55	
34 05 43 00-0366			Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0343)		
			Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0367	EA		Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	29.16	
34 05 43 00-0368	EA		Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	31.36	
34 05 43 00-0369	EA		Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	32.88	
34 05 43 00-0370	EA		Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	35.80	
34 05 43 00-0371	EA		Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	39.15	
34 05 43 00-0372	EA		Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	43.33	
34 05 43 00-0373	EA		Drill Out 1" Diameter Fastener/Anchor In Concrete.....	45.84	
34 05 43 00-0374	EA		Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	48.80	
34 05 43 00-0375	EA		Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	52.50	
34 05 43 00-0376	EA		Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	58.90	
34 05 43 00-0377			Bridge Surfacing (34 05 43)		
34 05 43 00-0378			Bridge Coatings (34 05 43 00-0377)		
			Note: Includes sweeping of bridge deck.		
34 05 43 00-0379	SF		Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	1.21	
			Note: Includes power washing and drying after power washing.		
34 05 43 00-0380	SF		Protective Seal Coat For Existing Bridge Decks.....	2.23	
34 05 43 00-0381	SF		Penetrating Sealer For Existing Bridge Decks.....	3.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0382 Bridge Membranes <small>(34 05 43 00-0377)</small> Note: Excludes abrasive blasting of deck.		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks	14.03	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks	4.07	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck <small>(34 05 43 00-0377)</small> Note: Excludes sweeping, cleaning and abrasive blasting.		
34 05 43 00-0386 SY Shot Blasting Bridge Decks	14.44	
34 05 43 00-0387 SY Thin Polymer (Epoxy) Overlay For Bridge Deck	92.99	
34 05 43 00-0388 SY 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	167.47	
34 05 43 00-0389 SY 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	191.67	
34 05 43 00-0390 SY 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	245.73	
34 05 43 00-0391 SY 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	299.80	
34 05 43 00-0392 SY 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	353.87	
34 05 43 00-0393 SY 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	407.95	
34 05 43 00-0394 Broadcast Silica Sand <small>(34 05 43 00-0377)</small> Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand	0.31	
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck <small>(34 05 43 00-0377)</small> See CSI section 01 22 23 00-1302 for water trucks, 01 22 23 00-1320 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck <small>(34 05 43 00-0377)</small> Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck	180.04	
For DOT Class DP, Add	32.84	
For DOT Class E, Add	10.71	
For DOT Class HP, Add	31.35	
34 05 43 00-0399 Bridge Roadway Grooving <small>(34 05 43 00-0377)</small>		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	4,155.32	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	6.73	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	4,629.17	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	8.78	
34 05 43 00-0404 Gravity Fed Concrete Crack Repair <small>(34 05 43 00-0377)</small> Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.67	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair	4.30	
34 05 43 00-0407 Concrete Pumping With Boom Truck <small>(34 05 43 00-0377)</small> See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair <small>(34 05 43)</small>		
34 05 43 00-0409 Bridge Girder Repair <small>(34 05 43 00-0408)</small> Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing	75.00	
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew	2,570.96	
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair	14.89	5.71
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	23.30	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.51	
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair	19.11	6.97
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	31.46	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.09	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0414	LF		3" x 3" x 3/8" Angle Iron For Bridge Repair.....	19.25	6.42
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	34.21	
			<i>For Aluminum, Add</i>	1.92	
			<i>For Galvanized Steel, Add</i>	6.63	
34 05 43 00-0415	LF		4" x 4" x 3/8" Angle Iron For Bridge Repair.....	24.96	7.81
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	46.56	
			<i>For Aluminum, Add</i>	2.62	
			<i>For Galvanized Steel, Add</i>	9.02	
34 05 43 00-0416	LF		6" x 4" x 3/8" Angle Iron For Bridge Repair.....	31.90	10.19
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	58.59	
			<i>For Aluminum, Add</i>	3.30	
			<i>For Galvanized Steel, Add</i>	11.35	
34 05 43 00-0417	LF		6" x 6" x 3/8" Angle Iron For Bridge Repair.....	35.77	10.19
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	70.98	
			<i>For Aluminum, Add</i>	3.99	
			<i>For Galvanized Steel, Add</i>	13.75	
34 05 43 00-0418	LF		6" x 6" x 1/2" Angle Iron For Bridge Repair.....	47.41	13.68
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	93.34	
			<i>For Aluminum, Add</i>	5.25	
			<i>For Galvanized Steel, Add</i>	18.09	
34 05 43 00-0419	LF		7" x 4" x 5/8" Angle Iron For Bridge Repair.....	52.12	14.42
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	105.28	
			<i>For Aluminum, Add</i>	5.92	
			<i>For Galvanized Steel, Add</i>	20.40	
34 05 43 00-0420	LF		5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair.....	45.62	12.11
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	94.30	
			<i>For Aluminum, Add</i>	5.30	
			<i>For Galvanized Steel, Add</i>	18.27	
34 05 43 00-0421	LF		6" x 4" x 3/4" Angle Iron For Bridge Repair.....	54.39	14.44
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	112.45	
			<i>For Aluminum, Add</i>	6.33	
			<i>For Galvanized Steel, Add</i>	21.79	
34 05 43 00-0422	LF		7" x 4" x 3/4" Angle Iron For Bridge Repair.....	60.37	16.03
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	124.80	
			<i>For Aluminum, Add</i>	7.02	
			<i>For Galvanized Steel, Add</i>	24.18	
34 05 43 00-0423	LF		8" x 6" x 7/8" Angle Iron For Bridge Repair.....	87.98	22.33
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	186.27	
			<i>For Aluminum, Add</i>	10.48	
			<i>For Galvanized Steel, Add</i>	36.09	
34 05 43 00-0424	LF		C4 x 5.4 - 4" Wide Channels For Bridge Repair.....	17.83	7.34
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	25.73	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	4.98	
34 05 43 00-0425	LF		C6 x 8.2 - 6" Wide Channels For Bridge Repair.....	25.91	10.27
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	39.07	
			<i>For Aluminum, Add</i>	2.20	
			<i>For Galvanized Steel, Add</i>	7.57	
34 05 43 00-0426	LF		C8 x 11.5 - 8" Wide Channels For Bridge Repair.....	35.07	13.46
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	54.78	
			<i>For Aluminum, Add</i>	3.08	
			<i>For Galvanized Steel, Add</i>	10.61	
34 05 43 00-0427	LF		C10 x 15.3 - 10" Wide Channels For Bridge Repair.....	46.64	17.90
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	72.86	
			<i>For Aluminum, Add</i>	4.10	
			<i>For Galvanized Steel, Add</i>	14.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0428 LF C12 x 20.7 - 12" Wide Channels For Bridge Repair	63.11	24.23
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	98.59	
<i>For Aluminum, Add</i>	5.55	
<i>For Galvanized Steel, Add</i>	19.10	
34 05 43 00-0429 LF C15 x 33.9 - 15" Wide Channels For Bridge Repair	103.36	39.67
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	161.47	
<i>For Aluminum, Add</i>	9.08	
<i>For Galvanized Steel, Add</i>	31.29	
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair	68.13	15.61
<i>For A50 Grade Steel, Add</i>	2.59	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair	85.16	19.52
<i>For A50 Grade Steel, Add</i>	3.23	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair	102.20	23.31
<i>For A50 Grade Steel, Add</i>	3.88	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair	119.23	27.32
<i>For A50 Grade Steel, Add</i>	4.52	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair	136.26	31.23
<i>For A50 Grade Steel, Add</i>	5.17	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair	170.34	39.03
<i>For A50 Grade Steel, Add</i>	6.46	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair	187.36	42.93
<i>For A50 Grade Steel, Add</i>	7.11	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair	204.40	46.83
<i>For A50 Grade Steel, Add</i>	7.76	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36	67.60	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
<i>For Removal Over 30' To 50', Add</i>	13.52	
<i>For Removal Over 50' To 75', Add</i>	23.66	
<i>For Removal Over 75', Add</i>	33.80	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36	901.47	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
<i>For Removal Over 30' To 50', Add</i>	180.29	
<i>For Removal Over 50' To 75', Add</i>	315.51	
<i>For Removal Over 75', Add</i>	450.74	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36	532.68	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
<i>For A50 Grade Steel, Add</i>	93.02	
<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36	8,535.33	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
<i>For A50 Grade Steel, Add</i>	1,526.77	
<i>Cutting Fee For I-beams, Floor Beams And Plates Over 5' x 5', Add Per Each Piece</i>	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	38.53	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	50.08	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8"	32.13	2.17
34 05 43 00-0445 EA Bridge Girder Rivet Removal	337.16	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	7.30	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	12.73	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	18.17	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	23.61	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	29.05	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	34.48	
Note: Includes rust or scale removal.		

34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0408)

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.15	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.22	
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.57	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 15,000, Deduct	-0.14	
For >15,000 To 30,000, Deduct	-0.23	
For >30,000, Deduct	-0.30	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	2.30	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.28	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 15,000, Deduct	-0.21	
For >15,000 To 30,000, Deduct	-0.33	
For >30,000, Deduct	-0.44	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair	3.84	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.36	
For >15,000 To 30,000, Deduct	-0.56	
For >30,000, Deduct	-0.73	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	2.92	
For Up To 100, Add	1.76	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.61	
For Up To 100, Add	2.17	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.43	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 15,000, Deduct	-0.33	
For >15,000 To 30,000, Deduct	-0.52	
For >30,000, Deduct	-0.69	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	4.70	
For Up To 100, Add	2.83	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 15,000, Deduct	-0.43	
For >15,000 To 30,000, Deduct	-0.68	
For >30,000, Deduct	-0.89	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair	5.87	
For Up To 100, Add	3.53	
For >100 To 250, Add	1.65	
For >250 To 500, Add	0.71	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 15,000, Deduct	-0.54	
For >15,000 To 30,000, Deduct	-0.85	
For >30,000, Deduct	-1.12	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings (34 05 43 00-0406)		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	16.71	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	26.34	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	33.42	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	40.41	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	51.35	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	58.19	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	57.87	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	66.77	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	83.32	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	102.79	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	77.63	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	92.09	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	119.73	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	98.02	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	117.29	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	145.91	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	179.00	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	119.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	143.41	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	178.55	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	218.90	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	146.88	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	175.99	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	219.26	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	268.65	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	180.76	
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	216.66	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	270.15	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	330.88	
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair.....	2,102.99	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair.....	15.87	
<i>For Full Penetration Weld, Add</i>		
	5.94	
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair.....	23.83	
<i>For Full Penetration Weld, Add</i>		
	8.91	
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair.....	31.79	
<i>For Full Penetration Weld, Add</i>		
	11.88	
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair.....	39.70	
<i>For Full Penetration Weld, Add</i>		
	14.84	
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair.....	46.59	
<i>For Full Penetration Weld, Add</i>		
	17.82	
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair.....	55.16	
<i>For Full Penetration Weld, Add</i>		
	20.62	
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair.....	63.96	
<i>For Full Penetration Weld, Add</i>		
	24.29	
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair.....	70.64	
<i>For Full Penetration Weld, Add</i>		
	26.72	
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair.....	97.88	
<i>For Full Penetration Weld, Add</i>		
	36.52	
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair.....	128.35	
<i>For Full Penetration Weld, Add</i>		
	48.41	
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair.....	179.30	
<i>For Full Penetration Weld, Add</i>		
	66.80	
34 05 43 00-0504 Bridge Trough Repair (34 05 43)		
34 05 43 00-0505 EA New Bridge Trough Hanger.....	307.14	27.20
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/or Bottom.....	70.74	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger.....	131.68	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger.....	71.44	
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	122.90	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	216.54	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	54.14	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	269.31	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	67.32	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste.....	6.19	
34 05 43 00-0516 SF Flat Surfaces Spot Painting.....	57.17	
Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal.....	1,335.74	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal.....	4.17	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
34 05 43 00-0519 End Beam Cleaning And Painting For Bridges (34 05 43)		
34 05 43 00-0520 SF End Beam Cleaning and Painting.....	4.14	
Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
<i>For Up To 100, Add</i>		
	4.14	
<i>For >100 To 500, Add</i>		
	2.73	
<i>For >500 To 3,000, Add</i>		
	1.37	
<i>For >5,000 To 7,500, Deduct</i>		
	-0.67	
<i>For >7,500 To 10,000, Deduct</i>		
	-1.01	
<i>For >10,000, Deduct</i>		
	-1.44	
34 05 43 00-0521 Snow And Pedestrian Fences For Bridges (34 05 43)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
34 05 43 00-0522		Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0521)</small>		
		Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0523		Galvanized Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0524	LF	4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	51.77	12.63
		For Posts 8' On Centers, Add.....	2.84	
		For Posts 5' On Centers, Add.....	10.69	
		For Up To 100, Add.....	9.88	
		For >100 To 250, Add.....	3.65	
34 05 43 00-0525	LF	>4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	56.51	13.27
		For Posts 8' On Centers, Add.....	3.09	
		For Posts 5' On Centers, Add.....	11.61	
		For Up To 100, Add.....	10.70	
		For >100 To 250, Add.....	3.94	
34 05 43 00-0526	LF	>5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	61.29	13.90
		For Posts 8' On Centers, Add.....	3.34	
		For Posts 5' On Centers, Add.....	12.54	
		For Up To 100, Add.....	11.52	
		For >100 To 250, Add.....	4.23	
34 05 43 00-0527	LF	>6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	64.48	14.53
		For Posts 8' On Centers, Add.....	3.52	
		For Posts 5' On Centers, Add.....	13.19	
		For Up To 100, Add.....	12.10	
		For >100 To 250, Add.....	4.44	
34 05 43 00-0528	LF	>7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	73.42	15.79
		For Posts 8' On Centers, Add.....	3.99	
		For Posts 5' On Centers, Add.....	14.93	
		For Up To 100, Add.....	13.66	
		For >100 To 250, Add.....	4.99	
34 05 43 00-0529		Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0530	LF	4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	54.51	12.63
		For Powder Coated, Add.....	6.67	
		For Aluminum Coated, Add.....	13.34	
		For Posts 8' On Centers, Add.....	2.98	
		For Posts 5' On Centers, Add.....	11.19	
		For Up To 100, Add.....	10.29	
		For >100 To 250, Add.....	3.78	
34 05 43 00-0531	LF	>4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	59.96	13.27
		For Powder Coated, Add.....	7.55	
		For Aluminum Coated, Add.....	15.10	
		For Posts 8' On Centers, Add.....	3.26	
		For Posts 5' On Centers, Add.....	12.24	
		For Up To 100, Add.....	11.21	
		For >100 To 250, Add.....	4.11	
34 05 43 00-0532	LF	>5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	68.29	13.90
		For Powder Coated, Add.....	9.01	
		For Aluminum Coated, Add.....	18.01	
		For Posts 8' On Centers, Add.....	3.69	
		For Posts 5' On Centers, Add.....	13.80	
		For Up To 100, Add.....	12.57	
		For >100 To 250, Add.....	4.58	
34 05 43 00-0533	LF	>6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	72.62	14.53
		For Powder Coated, Add.....	9.66	
		For Aluminum Coated, Add.....	19.32	
		For Posts 8' On Centers, Add.....	3.92	
		For Posts 5' On Centers, Add.....	14.65	
		For Up To 100, Add.....	13.33	
		For >100 To 250, Add.....	4.85	
34 05 43 00-0534	LF	>7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	82.91	15.79
		For Powder Coated, Add.....	11.30	
		For Aluminum Coated, Add.....	22.59	
		For Posts 8' On Centers, Add.....	4.46	
		For Posts 5' On Centers, Add.....	16.64	
		For Up To 100, Add.....	15.08	
		For >100 To 250, Add.....	5.47	
34 05 43 00-0535		Bridge Connection Mounting For Snow And Pedestrian Fence Assembly <small>(34 05 43 00-0522)</small>		
34 05 43 00-0536	EA	Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	57.48	
		Note: Includes drilling into steel post.		
34 05 43 00-0537	EA	Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	33.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				34 05 43 00-0538 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint.....	99.79	
				34 05 43 00-0539 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	92.76	
				Note: Includes drilling into steel post.		
				34 05 43 00-0540 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts.....	141.77	
				Note: Includes drilling into steel post.		
34 05 43 00-0541				Bridge Drainage Pipe (34 05 43)		
				Note: Concrete gray.		
34 05 43 00-0542				FRP Bridge Drain Pipe (34 05 43 00-0541)		
			LF	34 05 43 00-0543 6" IPS FRP Bridge Drain Piping.....	163.80	18.38
			LF	34 05 43 00-0544 8" IPS FRP Bridge Drain Piping.....	207.66	22.94
			LF	34 05 43 00-0545 10" IPS FRP Bridge Drain Piping.....	267.16	27.51
			LF	34 05 43 00-0546 12" IPS FRP Bridge Drain Piping.....	333.17	32.09
34 05 43 00-0547				FRP Bridge Drain Tee Saddles (34 05 43 00-0541)		
			EA	34 05 43 00-0548 6" x 6" FRP Bridge Drain Tee Saddle.....	1,387.63	274.92
			EA	34 05 43 00-0549 8" x 8" FRP Bridge Drain Tee Saddle.....	1,761.38	343.65
			EA	34 05 43 00-0550 10" x 10" FRP Bridge Drain Tee Saddle.....	2,581.36	412.38
			EA	34 05 43 00-0551 12" x 12" FRP Bridge Drain Tee Saddle.....	3,118.37	481.11
			EA	34 05 43 00-0552 8" x 6" FRP Bridge Drain Tee Saddle.....	1,638.17	309.29
			EA	34 05 43 00-0553 10" x 6" FRP Bridge Drain Tee Saddle.....	2,340.74	343.65
			EA	34 05 43 00-0554 10" x 8" FRP Bridge Drain Tee Saddle.....	2,461.07	378.02
			EA	34 05 43 00-0555 12" x 6" FRP Bridge Drain Tee Saddle.....	2,776.73	378.02
			EA	34 05 43 00-0556 12" x 8" FRP Bridge Drain Tee Saddle.....	2,876.80	412.38
			EA	34 05 43 00-0557 12" x 10" FRP Bridge Drain Tee Saddle.....	3,001.73	446.74
34 05 43 00-0558				FRP Bridge Drain 45 Degree Lateral Saddles (34 05 43 00-0541)		
			EA	34 05 43 00-0559 6" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,482.35	274.92
			EA	34 05 43 00-0560 8" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,871.27	343.65
			EA	34 05 43 00-0561 10" x 10" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,789.08	412.38
			EA	34 05 43 00-0562 12" x 12" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,526.89	481.11
			EA	34 05 43 00-0563 8" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,748.66	309.29
			EA	34 05 43 00-0564 10" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,554.51	343.65
			EA	34 05 43 00-0565 10" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,671.75	378.02
			EA	34 05 43 00-0566 12" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,183.90	378.02
			EA	34 05 43 00-0567 12" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,301.23	412.38
34 05 43 00-0568				FRP Bridge Drain Couplings (34 05 43 00-0541)		
			EA	34 05 43 00-0569 6" FRP Bridge Drain Coupling.....	632.98	146.60
			EA	34 05 43 00-0570 8" FRP Bridge Drain Coupling.....	817.72	183.24
			EA	34 05 43 00-0571 10" FRP Bridge Drain Coupling.....	988.31	219.90
			EA	34 05 43 00-0572 12" FRP Bridge Drain Coupling.....	1,398.80	256.66
34 05 43 00-0573				FRP Bridge Drain Flanges (34 05 43 00-0541)		
			EA	34 05 43 00-0574 6" FRP Bridge Drain Flange.....	769.57	73.30
			EA	34 05 43 00-0575 6", 8 Hole FRP Bridge Drain Flange.....	904.71	91.68
			EA	34 05 43 00-0576 8" FRP Bridge Drain Flange.....	948.43	91.68
			EA	34 05 43 00-0577 8", 8 Hole FRP Bridge Drain Flange.....	1,097.99	114.51
			EA	34 05 43 00-0578 10" FRP Bridge Drain Flange.....	1,278.90	109.95
			EA	34 05 43 00-0579 10", 12 Hole FRP Bridge Drain Flange.....	1,476.07	137.46
34 05 43 00-0580				FRP Bridge Drain Socket Cleanouts With Plug (34 05 43 00-0541)		
			EA	34 05 43 00-0581 6" x 4" FRP Bridge Drain Socket Cleanout With 4" Plug.....	620.44	91.68
			EA	34 05 43 00-0582 8" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	830.79	114.51
			EA	34 05 43 00-0583 10" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	958.02	137.46
			EA	34 05 43 00-0584 12" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	1,231.62	160.41
34 05 43 00-0585				FRP Bridge Drain Concentric Reducers (34 05 43 00-0541)		
			EA	34 05 43 00-0586 8" x 6" FRP Bridge Drain Concentric Reducer.....	1,068.34	114.51
			EA	34 05 43 00-0587 10" x 6" FRP Bridge Drain Concentric Reducer.....	1,026.76	130.61
			EA	34 05 43 00-0588 10" x 8" FRP Bridge Drain Concentric Reducer.....	1,011.76	137.46
			EA	34 05 43 00-0589 12" x 6" FRP Bridge Drain Concentric Reducer.....	1,217.51	144.31
			EA	34 05 43 00-0590 12" x 8" FRP Bridge Drain Concentric Reducer.....	1,223.56	152.36
			EA	34 05 43 00-0591 12" x 10" FRP Bridge Drain Concentric Reducer.....	1,297.07	160.41
			EA	34 05 43 00-0592 14" x 8" FRP Bridge Drain Concentric Reducer.....	2,026.61	168.35
			EA	34 05 43 00-0593 14" x 10" FRP Bridge Drain Concentric Reducer.....	2,053.15	176.83
			EA	34 05 43 00-0594 14" x 12" FRP Bridge Drain Concentric Reducer.....	2,081.04	185.64
			EA	34 05 43 00-0595 16" x 12" FRP Bridge Drain Concentric Reducer.....	2,465.42	194.99
			EA	34 05 43 00-0596 18" x 12" FRP Bridge Drain Concentric Reducer.....	2,800.04	204.67

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0597			FRP Bridge Drain 90 Degree Socket Elbows (34 05 43 00-0541)		
34 05 43 00-0598	EA		6" FRP Bridge Drain 90 Degree Socket Elbow	1,407.71	183.24
34 05 43 00-0599	EA		8" FRP Bridge Drain 90 Degree Socket Elbow	1,653.36	229.14
34 05 43 00-0600	EA		10" FRP Bridge Drain 90 Degree Socket Elbow	2,588.57	274.92
34 05 43 00-0601	EA		12" FRP Bridge Drain 90 Degree Socket Elbow	3,533.43	320.71
34 05 43 00-0602			FRP Bridge Drain 45 Degree Socket Elbows (34 05 43 00-0541)		
34 05 43 00-0603	EA		6" FRP Bridge Drain 45 Degree Socket Elbow	1,080.40	183.24
34 05 43 00-0604	EA		8" FRP Bridge Drain 45 Degree Socket Elbow	1,422.48	229.14
34 05 43 00-0605	EA		10" FRP Bridge Drain 45 Degree Socket Elbow	1,930.25	274.92
34 05 43 00-0606	EA		12" FRP Bridge Drain 45 Degree Socket Elbow	2,521.42	320.71
34 05 43 00-0607			FRP Bridge Drain 22-1/2 Degree Socket Elbows (34 05 43 00-0541)		
34 05 43 00-0608	EA		6" FRP Bridge Drain 22-1/2 Degree Socket Elbow	1,901.85	183.24
34 05 43 00-0609	EA		8" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,187.49	229.14
34 05 43 00-0610	EA		10" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,531.01	274.92
34 05 43 00-0611	EA		12" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,951.26	320.71
34 05 43 00-0612			FRP Bridge Drain Debris Covers (34 05 43 00-0541)		
34 05 43 00-0613	EA		8" x 6" FRP Bridge Drain Debris Cover	846.95	95.48
34 05 43 00-0614	EA		10" x 6" FRP Bridge Drain Debris Cover	871.17	100.27
34 05 43 00-0615	EA		10" x 8" FRP Bridge Drain Debris Cover	903.57	110.49
34 05 43 00-0616	EA		12" x 10" FRP Bridge Drain Debris Cover	948.16	121.80
34 05 43 00-0617	EA		12" x 6" FRP Bridge Drain Debris Cover	886.98	105.27
34 05 43 00-0618	EA		12" x 8" FRP Bridge Drain Debris Cover	929.89	116.04
34 05 43 00-0619	EA		14" x 10" FRP Bridge Drain Debris Cover	997.03	127.89
34 05 43 00-0620	EA		14" x 12" FRP Bridge Drain Debris Cover	1,017.19	134.31
34 05 43 00-0621	EA		16" x 12" FRP Bridge Drain Debris Cover	1,086.18	141.05
34 10 Guideways/Railways (34)					
34 11 Rail Tracks (34 10)					
34 11 93 Track Appurtenances and Accessories (34 11)					
34 11 93 00-0001 Railroad Crossings (34 11 93)					
34 11 93 00-0002 Asphalt Railroad Crossings (34 11 93 00-0001)					
Note: Based on 8" thickness x 20' including track and approach.					
34 11 93 00-0003	EA		8" Asphalt Railroad Crossing, 12' Roadway 6 CY	2,174.04	368.88
34 11 93 00-0004	EA		8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,547.80	418.06
34 11 93 00-0005	EA		8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	3,003.49	491.84
34 11 93 00-0006	EA		8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,571.59	590.21
34 11 93 00-0007	EA		8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	4,336.40	737.76
34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts (34 11 93 00-0001)					
Note: Based on 6" thickness x standard rail width gauge.					
34 11 93 00-0009	EA		Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	5,361.12	162.56
34 11 93 00-0010	EA		Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	6,701.39	197.39
34 11 93 00-0011	EA		Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	8,035.92	243.84
34 11 93 00-0012	EA		Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	9,371.91	278.67
34 11 93 00-0013	EA		Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	10,706.98	325.12
34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers (34 11 93 00-0001)					
Note: Based on 3' x 8'-6" sections.					
34 11 93 00-0015	EA		Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	2,994.58	162.56
34 11 93 00-0016	EA		Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	3,562.00	197.39
34 11 93 00-0017	EA		Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,123.68	243.84
34 11 93 00-0018	EA		Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	4,686.83	278.67
34 11 93 00-0019	EA		Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	5,249.05	325.12
34 11 93 00-0020 Railroad Trackage Demolition (34 11 93)					
34 11 93 00-0021	CY		Removal Of Railroad Track Ballast	9.70	
34 11 93 00-0022	LF		Removal Of Railroad Track Rail And Spikes	24.26	
34 11 93 00-0023	EA		Removal And Disposal Of Concrete Post Footings	143.06	
34 11 93 00-0024	EA		Backfill Holes From Post Removal	59.63	

34 40 Transportation Signaling and Control Equipment (34)**34 41 Roadway Signaling and Control Equipment** (34 40)**34 41 13 Traffic Signals** (34 41)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0001 Traffic Signals <small>(34 41 13)</small>		
34 41 13 00-0002 EA Single Traffic Signal Head, 4 Way Pattern.....	8,555.32	826.28
34 41 13 00-0003 Traffic Detector Induction Loop <small>(34 41 13)</small>		
34 41 13 00-0004 EA 6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	412.22	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0005 EA 6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	514.33	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0006 EA 6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	581.61	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0007 EA 6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop.....	503.43	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	873.64	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,073.27	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	1,142.57	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,426.21	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,528.44	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,634.20	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,759.07	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector.....	8.34	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.		
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector.....	3.80	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.		
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	278.76	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	794.64	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	491.95	
34 41 13 00-0020 Overhead Traffic Signals <small>(34 41 13)</small>		
34 41 13 00-0021 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	6,439.30	1,101.71
34 41 13 00-0022 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	6,633.05	1,101.71
34 41 13 00-0023 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	6,895.18	1,101.71
34 41 13 00-0024 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	1,199.32	244.89
34 41 13 00-0025 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	1,313.29	244.89
34 41 13 00-0026 EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,687.11	244.89
34 41 13 00-0027 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	1,199.32	244.89
34 41 13 00-0028 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	1,313.29	244.89
34 41 13 00-0029 EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,687.11	244.89
34 41 13 00-0030 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,199.32	244.89
34 41 13 00-0031 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,313.29	244.89
34 41 13 00-0032 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,687.11	244.89
34 41 13 00-0033 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,199.32	244.89
34 41 13 00-0034 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,313.29	244.89
34 41 13 00-0035 EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,687.11	244.89
34 41 13 00-0036 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,199.32	244.89
34 41 13 00-0037 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,313.29	244.89
34 41 13 00-0038 EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,687.11	244.89
34 41 13 00-0039 EA Phase Selector, 2 Channel.....	3,879.22	30.61
34 41 13 00-0040 EA Phase Selector, 4 Channel.....	6,033.25	30.61
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller.....	1,945.96	61.22
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,945.96	61.22
34 41 13 00-0043 EA Time Switch, 1-Circuit.....	268.36	36.73
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	390.76	15.31
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	511.56	15.31
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	728.11	15.31
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	915.02	15.31
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	2,487.80	15.31
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	2,487.80	15.31
34 41 13 00-0050 EA Power Line Surge Protector.....	228.96	9.18
34 41 13 00-0051 EA Loop Detector Surge Protector.....	116.04	9.18
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	14,818.47	1,549.27
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	16,117.73	1,549.27

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	17,679.12	1,549.27
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	18,157.79	1,549.27
34 41 13 00-0056 EA Speed Limit Beacon Control Option.....	6,524.78	413.14
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet.....	7,351.06	826.28
34 41 13 00-0058 EA Remote Detector Cabinet.....	3,817.99	826.28
34 41 13 00-0059 EA Traffic Signal Hand Control.....	1,073.22	137.71
34 41 13 00-0060 EA Load Switch.....	107.27	9.18
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly.....	845.28	137.71
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module.....	1,163.31	244.89
34 41 13 00-0063 EA Field Transceiver-Repeater.....	561.99	61.22
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover.....	936.82	123.07
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	1,098.44	128.67
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover.....	1,378.42	144.33
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover.....	1,534.22	156.64
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover.....	1,704.33	186.84
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.66	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.78	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.13	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.48	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.84	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.46	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	4.06	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	5.24	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable.....	0.74	0.11
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable.....	0.90	0.11
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable.....	1.68	0.11
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable.....	3.50	0.22
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles.....	3,009.25	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0082 EA 4' Diameter x 16' Concrete Base For Poles.....	4,752.16	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0083 EA Internally Illuminated Street Name Sign, 1 Line, 4'.....	2,921.44	275.43
34 41 13 00-0084 EA Internally Illuminated Street Name Sign, 1 Line, 6'.....	3,606.20	344.29
34 41 13 00-0085 EA Internally Illuminated Street Name Sign, 1 Line, 8'.....	3,926.26	413.14
34 41 13 00-0086 EA Internally Illuminated Street Name Sign, 1 Line, 10'.....	4,428.69	482.00
34 41 13 00-0087 EA Internally Illuminated Street Name Sign, 1 Line, 12'.....	4,748.75	550.86
34 41 13 00-0088 EA Internally Illuminated Street Name Sign, 2 Line, 4'.....	4,644.66	275.43
34 41 13 00-0089 EA Internally Illuminated Street Name Sign, 2 Line, 6'.....	5,721.49	344.29
34 41 13 00-0090 EA Internally Illuminated Street Name Sign, 2 Line, 8'.....	6,169.19	413.14
34 41 13 00-0091 EA Internally Illuminated Street Name Sign, 2 Line, 10'.....	6,890.44	482.00
34 41 13 00-0092 EA Internally Illuminated Street Name Sign, 2 Line, 12'.....	7,392.85	550.86
34 41 13 00-0093 EA Photoelectric Controller, Multi-Volt.....	97.86	31.83
34 41 13 00-0094 EA Photoelectric Controller, 120 Volt.....	90.52	31.83
34 41 13 00-0095 EA Photoelectric Controller, 480 Volt.....	90.52	31.83
34 41 13 00-0096 EA Wi-Fi Communication Unit.....	1,526.82	137.71
34 41 13 00-0097 EA Wi-Fi Communication Unit Mounting Bracket.....	320.54	103.29
34 41 13 00-0098 EA Wi-Fi Communication Unit Power Supply / POE Injector.....	294.99	68.86
34 41 13 00-0099 EA Wi-Fi Communication Unit Packet.....	2,142.35	206.57
34 41 13 00-0100 LF Preemptor Detector Cable.....	1.69	
34 41 13 00-0101 EA Sno-Shoe Cable Storage Assembly.....	274.47	
34 41 13 00-0102 EA 16' Pedestal With Base Plate And Cover.....	1,799.31	186.84
34 41 13 00-0103 EA Vehicle Signal Face, LED, 1 - 12" Section.....	581.39	175.59
34 41 13 00-0104 EA Vehicle Signal Face, LED, 2 - 12" Sections.....	949.37	247.89
34 41 13 00-0105 EA Vehicle Signal Face, LED, 3 - 12" Sections.....	1,335.35	302.97
34 41 13 00-0106 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,266.97	302.97
34 41 13 00-0107 EA Vehicle Signal Face, LED, 4 - 12" Sections.....	1,700.53	337.40
34 41 13 00-0108 EA Vehicle Signal Face, LED, 5 - 12" Sections.....	2,038.16	358.05
34 41 13 00-0109 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	2,170.37	358.05
34 41 13 00-0110 EA Vehicle Signal Face, LED, 1 - 8" Section.....	547.20	175.59
34 41 13 00-0111 EA Vehicle Signal Face, LED, 2 - 8" Sections.....	880.99	247.89
34 41 13 00-0112 EA Vehicle Signal Face, LED, 3 - 8" Sections.....	1,168.95	302.97
34 41 13 00-0113 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,253.29	302.97
34 41 13 00-0114 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections.....	1,554.65	337.40
34 41 13 00-0115 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,506.78	337.40
34 41 13 00-0116 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,787.43	358.05
34 41 13 00-0117 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	1,894.56	358.05
34 41 13 00-0118 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,748.58	302.97
34 41 13 00-0119 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,599.27	337.40
34 41 13 00-0120 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	4,705.06	358.05
34 41 13 00-0121 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	5,103.95	358.05
34 41 13 00-0122 EA Bracket Signal Mounting Assembly.....	562.63	137.71
34 41 13 00-0123 EA Mast Arm Signal Mounting Assembly.....	993.06	275.43
34 41 13 00-0124 EA Top Pole Signal Mounting Assembly.....	347.89	103.29
34 41 13 00-0125 EA Pedestrian Signal Head.....	1,028.58	206.57
34 41 13 00-0126 EA Pedestrian Signal Insert.....	637.38	103.29
34 41 13 00-0127 EA Audible Pedestrian Signal.....	1,509.90	
34 41 13 00-0128 EA Junction Box, Pole Or Post Mounted.....	633.12	
34 41 13 00-0129 EA Pedestrian Push Button.....	557.94	
34 41 13 00-0130 EA Illuminated Sign, Bracket Mounted, Symbolic.....	4,655.43	
34 41 13 00-0131 EA Illuminated Sign, Mast Arm Mounted, Symbolic.....	4,849.71	
34 41 13 00-0132 EA Sign, Message, "BLANK OUT", Bracket Mounted.....	5,139.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0133 EA Sign, Message, "BLANK OUT", Mast Arm Mounted	5,457.73	
34 41 13 00-0134 EA Sign, Fiber Optic, Bracket Mounted	5,873.78	
34 41 13 00-0135 EA Sign, Fiber Optic, Mast Arm Mounted	6,198.75	
34 41 13 00-0136 EA 30' Type 15TS Signal And Lighting Standard	8,779.82	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0137 EA 35' Type 21TS Signal And Lighting Standard	10,256.16	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0138 EA 17' Type 18-2-100 Signal And Lighting Standard	4,865.35	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0139 EA 17' Type 18-3-100 Signal And Lighting Standard	5,435.37	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0140 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard	5,653.87	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0141 EA 17' Type 23-3-100 Signal And Lighting Standard	5,653.87	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0142 EA 17' Type 23-4-100 Signal And Lighting Standard	5,768.59	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0143 EA 17' Type 27-3-100 Signal And Lighting Standard	6,342.18	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0144 EA 17' Type 27-4-100 Signal And Lighting Standard	6,474.08	
Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0145 EA 17' Type 28-5-100 Signal And Lighting Standard	6,744.54	
Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0146 EA 17' Type 60-5-100 Signal And Lighting Standard	7,170.49	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard	5,200.67	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard	9,378.34	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard	10,575.37	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard	11,034.23	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard	11,034.23	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard	12,479.64	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard	13,033.73	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard	13,615.49	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard	14,531.81	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard	10,908.11	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard	12,304.65	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard	12,840.01	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard	12,840.01	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard	14,526.30	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard	15,172.74	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard	15,851.48	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard	16,920.48	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE	3,460.73	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE	3,630.66	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE	3,898.10	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE	5,338.91	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE	6,462.24	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE	6,947.94	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE	7,625.96	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE	8,659.08	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE	9,831.84	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE	10,568.19	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE	12,273.37	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm	1,171.96	
For High Rise Arm, Add	106.59	
For High Rise Straight Arm, Add	85.27	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm	1,528.42	
For High Rise Arm, Add	142.50	
For High Rise Straight Arm, Add	114.00	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm	1,912.43	
For High Rise Arm, Add	178.41	
For High Rise Straight Arm, Add	142.73	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm	2,579.11	
For High Rise Arm, Add	209.77	
For High Rise Straight Arm, Add	167.81	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm	2,868.01	
For High Rise Arm, Add	247.39	
For High Rise Straight Arm, Add	197.91	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm	3,019.92	
For High Rise Arm, Add	275.89	
For High Rise Straight Arm, Add	220.71	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm	3,452.06	
For High Rise Arm, Add	329.47	
34 41 13 00-0182 EA 15' Tubular Aluminum Post	1,228.65	
34 41 13 00-0183 EA 17' Tubular Aluminum Post	1,303.80	
34 41 13 00-0184 EA 20' Tubular Aluminum Post	1,444.88	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED	196.92	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE	59.68	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE	279.03	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier	1,999.92	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier	3,814.58	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT	2,689.40	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted	856.32	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted	856.32	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted	24,751.11	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US)	4,154.75	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US)	2,230.83	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125)	11,877.06	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES)	5,491.72	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with integrated 1xRTT cellular data modem for data relay via CDMA	9,501.42	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG)	336.38	
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL)	2,515.97	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F)	1,124.82	
Note: Excludes coring.		
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,810.38	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles	7,427.72	1.79
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles	9,717.44	1.79
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles	5,799.13	1.79
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	7,427.72	1.79
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles	9,717.44	1.79
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF	1,457.62	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted	1,679.75	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted	1,497.94	
34 41 13 00-0211 EA 12" FCV Visor	103.53	
34 41 13 00-0212 EA 8" FCV Visor	73.13	
34 41 13 00-0213 EA Eggcrate Visor	99.76	
34 41 13 00-0214 EA Pedestrian H/M	1,118.95	
34 41 13 00-0215 EA Pedestrian Audio	1,230.93	
34 41 13 00-0216 EA Adjustable Pushbutton	300.80	
34 41 13 00-0217 EA ADA Cap And Switch	384.46	
34 41 13 00-0218 EA 3 Section 12" Backplate	167.29	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate	246.43	
34 41 13 00-0220 EA 3 Section 8" Backplate	134.61	
34 41 13 00-0221 EA 12" Red LED Lenses	284.65	
34 41 13 00-0222 EA 12" Amber LED Lenses	305.56	
34 41 13 00-0223 EA 12" Green LED Lenses	535.03	
34 41 13 00-0224 EA 12" Red Arrow	282.96	
34 41 13 00-0225 EA 12" Amber Arrow	267.64	
34 41 13 00-0226 EA 12" Green Arrow	401.86	
34 41 13 00-0227 EA 8" Red	279.86	
34 41 13 00-0228 EA 8" Amber	268.55	
34 41 13 00-0229 EA 8" Green	324.37	
34 41 13 00-0230 EA Hand/Man	490.31	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T	597.59	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T	678.84	
34 41 13 00-0233 EA Frameworks, MAT MT	177.82	
34 41 13 00-0234 EA Frameworks, MAS MT	194.07	
34 41 13 00-0235 EA Frameworks, 3W PT TC	395.60	
34 41 13 00-0236 EA Frameworks, 2W PT TC	389.35	
34 41 13 00-0237 EA Frameworks, 2W SM TC	367.68	
34 41 13 00-0238 EA Frameworks, SV-1	243.72	
34 41 13 00-0239 EA Frameworks, TV-1	235.59	
34 41 13 00-0240 EA Type III Service Pedestal	4,712.40	
34 41 13 00-0241 EA Single Fuse Holder	44.43	
34 41 13 00-0242 EA Double Fuse Holder	112.65	
34 41 13 00-0243 EA Pullbox, 1-1/2" x 20" x 14"	101.83	
34 41 13 00-0244 EA Pullbox, 5" x 28" x 18"	138.30	
34 41 13 00-0245 EA Pullbox, 6" x 36" x 23"	180.22	
34 41 13 00-0246 EA Pullbox Lids, FL9D	111.90	
34 41 13 00-0247 EA Pullbox Lids, FL30D	209.30	
34 41 13 00-0248 EA Pullbox Lids, FL36D	62.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0249 EA LED Enhanced Pedestrian Crossing Symbol Sign Note: 2 required per system.	1,980.32	111.88
34 41 13 00-0250 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System Note: 4 required per system.	5,694.43	671.31
34 41 13 00-0251 EA Power Control Unit With Enclosure (Solar) Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).	20,185.33	447.55
34 41 13 00-0252 EA Power Control Unit With Enclosure (A/C)	12,932.68	447.55
34 41 13 00-0253 EA Push Button Assembly With Sign	1,124.67	223.77
34 41 13 00-0254 EA Advanced Warning Signs	2,238.14	223.77
34 41 13 00-0255 EA 14' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	4,295.33	
34 41 13 00-0256 EA 21' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	6,651.40	
34 41 13 00-0257 EA 22' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm and luminare arm.	6,917.40	
34 41 13 00-0258 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm..... Note: For mast arm and luminare arm.	9,372.90	
34 41 13 00-0259 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm Note: For mast arm and luminare arm.	9,995.49	
34 41 13 00-0260 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	7,728.26	
34 41 13 00-0261 EA 30' High Galvanized Steel Traffic Signal Pole, Octafute	6,862.11	
34 41 13 00-0262 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered)	5,552.02	
34 41 13 00-0263 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	25,488.59	
34 41 13 00-0264 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	29,403.13	
 34 41 13 00-0265 Traffic Signal Cable <small>(34 41 13)</small>		
34 41 13 00-0266 LF 16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.30	0.96
34 41 13 00-0267 LF 16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.60	1.03
34 41 13 00-0268 LF 16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.90	1.09
34 41 13 00-0269 LF 16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.18	1.17
34 41 13 00-0270 LF 16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.53	1.23
34 41 13 00-0271 LF 16 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.13	1.37
34 41 13 00-0272 LF 16 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.87	1.57
34 41 13 00-0273 LF 16 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.61	1.78
34 41 13 00-0274 LF 16 AWG, 16-Conductor, Solid, Traffic Signal Cable	6.70	1.99
34 41 13 00-0275 LF 16 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.03	2.19
34 41 13 00-0276 LF 14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.40	0.96
34 41 13 00-0277 LF 14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.74	1.03
34 41 13 00-0278 LF 14 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.08	1.09
34 41 13 00-0279 LF 14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.39	1.17
34 41 13 00-0280 LF 14 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.79	1.23
34 41 13 00-0281 LF 14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.47	1.37
34 41 13 00-0282 LF 14 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.30	1.57
34 41 13 00-0283 LF 14 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.12	1.78
34 41 13 00-0284 LF 14 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.38	1.99
34 41 13 00-0285 LF 14 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.94	2.19
34 41 13 00-0286 LF 12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.63	0.96
34 41 13 00-0287 LF 12 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.08	1.03
34 41 13 00-0288 LF 12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.50	1.09
34 41 13 00-0289 LF 12 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.90	1.17
34 41 13 00-0290 LF 12 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.43	1.23
34 41 13 00-0291 LF 12 AWG, 8-Conductor, Solid, Traffic Signal Cable	5.31	1.37
34 41 13 00-0292 LF 12 AWG, 10-Conductor, Solid, Traffic Signal Cable	6.33	1.57
34 41 13 00-0293 LF 12 AWG, 12-Conductor, Solid, Traffic Signal Cable	7.35	1.78
34 41 13 00-0294 LF 12 AWG, 16-Conductor, Solid, Traffic Signal Cable	9.02	1.99
34 41 13 00-0295 LF 12 AWG, 20-Conductor, Solid, Traffic Signal Cable	11.12	2.19
 34 41 13 00-0296 School Zone Flasher Beacons <small>(34 41 13)</small>		
34 41 13 00-0297 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,046.50	206.80
34 41 13 00-0298 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,089.79	206.80
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	6,824.93	206.80
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	6,963.50	206.80
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	12,815.53	206.80
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	13,358.54	206.80

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0303			Traffic Light Control Synchronization <small>(34 41 13)</small>		
34 41 13 00-0304	EA		ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,245.75	
34 41 13 00-0305	EA		ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R).....	3,907.09	
34 41 13 00-0306	EA		ENCOM Dual 2.4/2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	8,909.97	
34 41 13 00-0307	EA		5.8 GHz Broadband Radio with Integrated Antenna (COMMPAKBB58INT).....	6,106.10	
34 41 13 00-0308	EA		2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24INT).....	6,106.10	
34 41 13 00-0309	EA		Solar Cabinet Assembly.....	16,405.67	
34 41 13 00-0310	EA		Data Controller Interface Cable Assembly.....	644.04	
34 41 13 00-0311	EA		900 MHz Splitter.....	771.80	
34 41 13 00-0312	EA		900 MHz Surge Suppressor.....	278.92	
34 41 13 00-0313	EA		Surge-Radio Lead in Cable.....	175.55	
34 41 13 00-0314	EA		12DB GAIN YAGI Antenna.....	780.68	
34 41 13 00-0315	EA		PELCO Antenna Mounting Bracket.....	516.50	
34 41 13 00-0316	MLF		Coaxial Cable, LMR-400.....	4,250.85	
34 41 13 00-0317	EA		Perle 16 Port Serial Server.....	4,357.45	
34 41 13 00-0318	EA		Serial to Ethernet Card.....	2,347.06	
34 41 13 00-0319	EA		404 Stand Alone Modem (GDI 404).....	2,147.13	
34 41 13 00-0320			Traffic Signal Controls <small>(34 41 13)</small>		
34 41 13 00-0321	EA		Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,846.67	
34 41 13 00-0322	EA		Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	778.98	
34 41 13 00-0323	EA		AccessBox for contract closure master card (CC-ACC).....	274.08	
34 41 13 00-0324	EA		Flush Mount Wireless Sensor (ATT VSN240-F).....	1,054.58	
34 41 13 00-0325	EA		Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	1,054.58	
34 41 13 00-0326	EA		Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX).....	162.36	
34 41 13 00-0327	EA		SNAPS License for each enabled AP (SNAPS-PER-AP).....	448.11	
34 41 13 00-0328			Traffic Signal Devices <small>(34 41 13)</small>		
34 41 13 00-0329	EA		12" Polycarbonate Signal Head Housing (McCain).....	981.56	100.70
34 41 13 00-0330	EA		16" Polycarbonate Pedestrian Signal Housing (McCain).....	497.96	78.32
34 41 13 00-0331	EA		Pedestrian Push Button Cap & Switch (McCain M31334).....	368.93	145.45
34 41 13 00-0332	EA		Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712).....	503.18	212.58
34 41 13 00-0333	EA		Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	386.37	167.83
34 41 13 00-0334	EA		16 Channel Conflict Monitor (McCain 2010 ECLIP).....	1,481.47	72.72
34 41 13 00-0335	EA		LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	303.64	27.98
34 41 13 00-0336	EA		Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,357.04	123.07
34 41 13 00-0337	EA		Camera processor card (Iteris Edge Connect).....	7,672.04	179.02
34 41 13 00-0338	EA		Wireless Broadband Radio (Encom BB58).....	7,244.95	167.83
34 41 13 00-0339	EA		24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	4,783.70	134.27
34 41 13 00-0340	EA		Power Adapter (Mean Well DR-120-48).....	165.08	41.96
34 41 13 00-0341	LF		14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	0.96	
34 41 13 00-0342	EA		Radar Detection System (Wavetronix Matrix).....	13,854.75	425.16
34 41 13 00-0343	EA		Pedestrian Audio Push Button (Polaris APS).....	407.19	106.29
34 41 13 00-0344	EA		Opticom Infrared System - Detector (GTT 711).....	1,069.48	99.81
34 41 13 00-0345	EA		Opticom Infrared System - Detector (GTT 721).....	1,196.57	111.66
34 41 13 00-0346	EA		Opticom Infrared System - Detector (GTT 722).....	1,666.57	155.53
34 41 13 00-0347	EA		Opticom Multimode Phase Selector (GTT 764).....	5,549.66	92.05
34 41 13 00-0348	LF		Opticom GPS Installation Cable (GTT 1070).....	1.14	
34 41 13 00-0349	EA		Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	923.51	
34 41 13 00-0350	EA		Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	979.55	
34 41 13 00-0351	EA		UPS Module (Alpha Technologies FXM 350)..... Note: For battery backup in traffic signal control cabinet	1,503.21	61.22
34 41 13 00-0352	EA		Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)..... Note: To control flashing "School" signs	471.18	50.35
34 41 13 00-0353	LF		Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	10.60	0.51
34 41 13 00-0354	LF		Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	2.54	0.44
34 41 13 00-0355	EA		12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	138.53	50.35
34 41 13 00-0356	EA		12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	138.53	50.35
34 41 13 00-0357	EA		12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	138.53	50.35
34 41 13 00-0358	EA		12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	138.53	50.35
34 41 13 00-0359	EA		12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	138.53	50.35
34 41 13 00-0360	EA		12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	138.53	50.35
34 41 13 00-0361	EA		LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	409.86	128.67
34 41 13 00-0362	EA		EOC Switch (Actellis ML688).....	5,486.74	397.95
34 41 13 00-0363	EA		Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,479.05	91.83
34 41 13 00-0364	EA		#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	117.29	23.98
34 41 13 00-0365	EA		#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	424.15	34.71
34 41 13 00-0366	EA		#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	146.37	23.98
34 41 13 00-0367	EA		#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	514.17	34.71
34 41 13 00-0368	EA		Battery Back-up (Alpha FXM110 UPS).....	3,562.72	122.44
34 41 13 00-0369	EA		Battery (Alpha AlphaCell 220GXL).....	503.59	30.61
34 41 13 00-0370	EA		BBS Cabinet (Alpha SE48-1616).....	4,090.01	275.50
34 41 13 00-0371	LF		Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.11	2.39
34 41 13 00-0372	LF		Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.70	1.10
34 41 13 00-0373	EA		FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,270.30	91.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0374 EA 12" THREE SECTION HOUSING (McCain M22435)	874.48	61.22
34 41 13 00-0375 EA 12" FOUR SECTION HOUSING (McCain M30883)	1,123.71	91.83
34 41 13 00-0376 EA 12" FIVE SECTION HOUSING (McCain M31769)	1,311.72	91.83
34 41 13 00-0377 EA 12" CLUSTER, WITHOUT MAS (McCain M30987)	1,405.72	91.83
34 41 13 00-0378 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	874.48	61.22
34 41 13 00-0379 EA NAVIGATOR IN2 APS 2 WIRE PPB #IN250N0-B (Polar iN250N0-B).....	874.48	61.22
34 41 13 00-0380 EA NAVIGATOR IN2 CONTROLLER RACK MOUNT iCCU-C (Polar iCCU-C)	5,128.81	214.28
34 41 13 00-0381 EA NAVIGATOR IN2 INTERCONNECT BOARD iN2-ICB-C (Polar iN2-ICB-C)	249.23	30.61
34 41 13 00-0382 EA NAVIGATOR IN2 POWER SUPPLY iN2-150-WPS-C (Polar iN2-150-WPS-C).....	249.23	30.61
34 41 13 00-0383 EA NAVIGATOR IN2 CONNECTOR iN2-C4CABLE-C (Polar iN2-c4cable-C).....	561.85	45.92
34 41 13 00-0384 EA 12" Visor (McCain M19302).....	43.29	12.24
34 41 13 00-0385 EA LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	467.85	45.92
34 41 13 00-0386 EA SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	780.48	61.22
34 41 13 00-0387 EA CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,452.73	91.83
34 41 13 00-0388 EA ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	780.48	61.22
34 41 13 00-0389 EA HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	155.22	30.61
34 41 13 00-0390 EA ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	467.85	45.92
34 41 13 00-0391 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	874.48	61.22
34 41 13 00-0392 EA 242L ISOLATOR, EDI (McCain M56812)	155.22	30.61
34 41 13 00-0393 EA EDI 222 DETECTOR (McCain M11407).....	202.23	30.61
34 41 13 00-0394 EA ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	3,502.28	153.05
34 41 13 00-0395 EA GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2)	573.66	61.22
34 41 13 00-0396 EA BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	780.48	61.22
34 41 13 00-0397 EA Battery Backup Cabinet Anodize 44x26x12 (McCain M64438A).....	1,640.74	91.83
 34 41 16 Traffic Control Equipment (34 41)		
34 41 16 00-0001 Transportation Control Equipment (34 41 16)		
34 41 16 00-0002 EA CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	12,257.60	951.87
34 41 16 00-0003 EA CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	12,367.26	1,006.69
34 41 16 00-0004 EA CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	15,193.13	1,018.53
34 41 16 00-0005 EA CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	18,046.11	1,236.67
34 41 16 00-0006 EA CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	15,071.50	610.08
34 41 16 00-0007 EA CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	16,714.82	667.91
34 41 16 00-0008 EA CONTROLLER, TS, 12-BAY, "M" CABINET.....	27,560.80	1,050.07
34 41 16 00-0009 EA CONTROLLER, TS, 12-BAY, "P" CABINET.....	29,308.07	1,163.68
34 41 16 00-0010 EA CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	42,137.60	1,308.27
34 41 16 00-0011 EA CONTROLLER, TS, 16-BAY, "P" CABINET.....	33,259.65	1,239.43
34 41 16 00-0012 EA CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	918.02	145.56
34 41 16 00-0013 EA CONCRETE BLOCK PEDESTAL.....	780.62	218.55
34 41 16 00-0014 WK MAINTAIN EXIST TS INSTALLATION.....	340.15	170.07
34 41 16 00-0015 EA INST SIGN BOARDS, ST. NAME.....	620.55	288.23
34 41 16 00-0016 EA F.O. ADD-IN FOR LOCAL CONTROLLER.....	14,065.24	382.98
34 41 16 00-0017 EA F.O. ADD-IN FOR MASTER CONTROLLER.....	34,210.06	574.65
34 41 16 00-0018 EA PDU Equipped netBooter With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,073.27	15.96
34 41 16 00-0019 EA Remote Power Switched netBooter PDU, 8 Independent Outlets (Synaccess NP-0801DU)	609.09	15.96
 34 41 16 00-0020 Transportation Cabinets (34 41 16)		
34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)		
34 41 16 00-0022 EA 50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures)	2,804.36	183.66
34 41 16 00-0023 EA 66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	12,040.48	183.66
34 41 16 00-0024 EA 46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,620.05	183.66
34 41 16 00-0025 EA 50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	2,804.36	183.66
34 41 16 00-0026 EA 60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	12,450.07	183.66
34 41 16 00-0027 EA 55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,800.88	183.66
 34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)		
34 41 16 00-0029 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	6,867.16	214.28
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.		
 34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)		
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,643.50	183.66
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	3,300.26	195.91
 34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i).....	12,546.40	214.28
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332).....	12,546.40	214.28
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170).....	6,412.38	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0037			Traffic Control Equipment <small>(34 41 16)</small>		
34 41 16 00-0038	EA		ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15).....	313.81	61.22
34 41 16 00-0039	EA		ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M).....	417.50	61.22
34 41 16 00-0040	EA		ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M).....	483.36	61.22
34 41 16 00-0041	EA		ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30).....	371.38	61.22
34 41 16 00-0042	MLF		10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R).....	2,910.29	671.31
34 41 16 00-0043	EA		Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02).....	124.45	30.61
34 41 16 00-0044	EA		Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141).....	580.45	68.93
34 41 16 00-0045	EA		Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	3,069.12	206.80
34 41 16 00-0046	EA		Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	556.50	30.61
34 41 16 00-0047	EA		Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114).....	798.87	30.61
34 41 16 00-0048	EA		4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104).....	912.78	61.22
34 41 16 00-0049	EA		Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	4,042.50	61.22
34 41 16 00-0050	EA		50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	413.59	206.80
34 41 16 00-0051	EA		60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	577.60	51.70
34 41 16 00-0052	EA		900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119).....	496.15	68.93
34 41 16 00-0053	EA		900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	306.46	68.93
34 41 16 00-0054	EA		Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	345.74	30.61
34 41 16 00-0055	EA		24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	419.51	30.61
34 41 16 00-0056	EA		Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250).....	187.67	30.61
34 41 16 00-0057	EA		Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200).....	567.03	30.61
34 41 16 00-0058	EA		Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	640.80	30.61
34 41 16 00-0059	EA		RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304).....	798.87	30.61
34 41 16 00-0060	EA		Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301).....	61.22	30.61
34 41 16 00-0061	EA		Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	506.68	68.93
34 41 16 00-0062	MLF		LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	3,437.18	671.31
34 41 16 00-0063	EA		N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	59.91	18.37
34 41 16 00-0064	EA		Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E).....	1,036.97	73.47
34 41 16 00-0065	EA		Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1).....	1,003.40	91.83
34 41 16 00-0066	EA		24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000).....	219.38	30.61
34 41 16 00-0067	EA		10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010).....	159.32	30.61
34 41 16 00-0068	EA		24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2).....	541.02	30.61
34 41 16 00-0069	EA		Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE).....	221.29	30.61
34 41 16 00-0070	EA		120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600).....	85.20	30.61
34 41 16 00-0071	EA		Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009).....	754.71	61.22
			Note: Input/Output for sign peripherals.		
34 41 16 00-0072	EA		Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009).....	754.71	61.22
			Note: Input/Output for sign peripherals.		
34 41 16 00-0073	EA		Control Area Network Distribution Board (Daktronics 0P-1248-0005).....	1,439.66	61.22
			Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074	EA		Control Area Network Distribution Board (Daktronics 0P-1248-0011).....	1,439.66	61.22
			Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075	EA		Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019).....	480.73	61.22
			Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076	EA		Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015).....	691.48	61.22
			Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077	EA		Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021).....	691.48	61.22
			Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078	EA		Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003).....	565.03	61.22
			Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079	EA		Controller, VFC-3000 Field Controller NTCPv1 (Daktronics 0A-1248-0016).....	9,973.80	244.89
			Note: The "brains" of the sign. Receives information from NTCP central software and reports status and diagnostic information.		
34 41 16 00-0080	EA		DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025).....	419.51	30.61
			Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081	EA		Driver (Daktronics 0P-1100-0026).....	793.44	48.98
			Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082	EA		External Temp Sensor (Daktronics 0P-1100-0014).....	698.60	48.98
			Note: Sensor that measures ambient temperature.		
34 41 16 00-0083	EA		Internal Temp Sensor (Daktronics 0P-1100-0038).....	782.91	48.98
			Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084	EA		Light Level Detector (Daktronics 0P-1151-0002).....	466.77	48.98
			Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085	EA		Module (Daktronics 0A-1253-0608).....	1,439.66	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086	EA		Module (Daktronics 0A-1253-3018).....	1,808.49	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087	EA		Module (Daktronics 0A-1266-5002).....	1,597.73	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088	EA		Module (Daktronics 0A-1332-6252).....	2,230.00	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089	EA		Module (Daktronics 0A-1332-6455).....	1,808.49	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090	EA		Module (Daktronics 0A-1332-6654).....	1,808.49	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091	EA		Module (Daktronics 0P-1332-3015).....	965.46	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092	EA		Module (Daktronics 0P-1332-4116).....	965.46	61.22
			Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031).....	965.46	61.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017).....	965.46	61.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603)	1,439.66	61.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605)	1,439.66	61.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601)	1,439.66	61.22
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016).....	491.26	61.22
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029).....	575.57	61.22
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593).....	1,703.11	61.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648).....	1,703.11	61.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307).....	649.33	61.22
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129).....	263.15	36.73
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412).....	547.67	36.73
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772).....	547.67	36.73
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	811.12	36.73
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,376.44	61.22
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,861.18	61.22
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,228.91	61.22
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	807.40	61.22
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	301.58	61.22
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	9,973.80	244.89
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	691.48	61.22
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	113.91	30.61
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	145.52	30.61
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	912.78	61.22
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	912.78	61.22
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,190.30	61.37
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,190.30	61.37
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	6,447.34	61.37
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,538.37	61.37
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	208.90	30.61
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	732.86	61.37
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,915.14	61.37
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS4-1).....	296.54	61.22
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	651.81	61.22
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	291.44	15.35
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,692.51	122.44
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	228.32	30.61
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	3,354.07	61.22
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	7,862.87	303.05
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,048.47	159.18
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	25.47	9.79
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	2,733.34	122.44
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	57.47	9.79
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,433.25	68.93
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	131.27	46.53
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	380.48	61.22
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	683.97	15.96
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	737.21	15.96
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	390.37	24.49
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	4,712.98	146.93
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	173.15	28.16
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	44.16	6.12
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,485.14	61.22
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	5,122.33	122.44
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	3,450.62	202.03
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	790.97	350.19

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	551.20	244.89
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	114.41	33.06
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	86.85	22.04
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	67.80	22.04
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	67.80	22.04
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	296.54	61.22
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	322.27	30.68
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	3,017.68	30.68
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	588.59	15.96
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	12,127.69	206.80
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	459.28	68.93

34 70 Transportation Construction and Equipment ⁽³⁴⁾**34 71 Roadway Construction** ^(34 70)**34 71 13 Vehicle Barriers** ^(34 71)**34 71 13 13 Vehicle Median Barriers** ^(34 71 13)**34 71 13 13-0001 Concrete Median Barrier** ^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	67.89	4.33
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	111.22	4.33
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	156.43	4.33
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	49.97	6.93
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	39.73	3.53

34 71 13 16 Vehicle Crash Barriers ^(34 71 13)**34 71 13 16-0001 Impact Barrier, Non-Redirective** ^(34 71 13 16)**34 71 13 16-0002 Sand Barrel Impact Attenuator** ^(34 71 13 16-0001)

Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel.....	605.88	51.86
Note: Includes containers, inserts, and lid.		
34 71 13 16-0004 EA 1400 LB Sand Barrel.....	568.77	60.88
Note: Includes containers, inserts, and lid.		
34 71 13 16-0005 EA 2100 LB Sand Barrel.....	615.06	69.90
Note: Includes containers, inserts, and lid.		

34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator ^(34 71 13 16-0001)

34 71 13 16-0007 LB Sand for Sand Barrels.....	0.10	
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34 71 13 26 Vehicle Guide Rails ^(34 71 13)**34 71 13 26-0001 Mobilize Guide Rail Crew** ^(34 71 13 26)

34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	1,320.11	
Note: Excludes equipment mobilization.		

34 71 13 26-0003 Corrugated Beam Guide Rail ^(34 71 13 26)**34 71 13 26-0004 Corrugated Beam Guide Railing** ^(34 71 13 26-0003)**34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections** ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	19.05	2.35
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	20.54	2.35

34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing.....	24.92	2.35
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	26.99	2.35
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End.....	64.10	2.35
Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	69.95	2.35
Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		

34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections ^(34 71 13 26-0003)

34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	143.11	31.12
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	151.11	31.12
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	191.10	31.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	199.10	31.12
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section	191.10	31.12
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	199.10	31.12
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)		
Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	4,851.62	189.63
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket	4,051.83	189.63
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	4,851.62	189.63
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	719.03	89.40
34 71 13 26-0025 EA Terminal Support System, Type SFT.....	995.19	239.02
34 71 13 26-0026 EA Terminal Support System, Type ET.....	4,910.97	676.47
34 71 13 26-0027 EA Terminal Support System, Type SRT	5,333.06	676.47
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail.....	149.76	16.34
For Installation Without Soil Plate, Deduct		-5.00
For Installation In Rock, Add		4.36
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail	157.75	16.34
For Installation Without Soil Plate, Deduct		-5.00
For Installation In Rock, Add		4.36
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail.....	165.75	16.34
For Installation Without Soil Plate, Deduct		-5.00
For Installation In Rock, Add		4.36
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail.....	173.75	16.34
For Installation Without Soil Plate, Deduct		-5.00
For Installation In Rock, Add		4.36
34 71 13 26-0033 EA 6BB-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	149.76	16.34
For Installation Without Soil Plate, Deduct		-5.00
For Installation In Rock, Add		4.36
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	213.74	16.34
For Installation In Rock, Add		4.36
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	149.76	16.34
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	157.75	16.34
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	165.75	16.34
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	173.75	16.34
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post.....	145.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic).....	153.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	137.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic).....	145.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	129.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic).....	137.76	16.34
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	550.93	16.34
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	61.78	16.34
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	127.12	35.36
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	13.82	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	47.14	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	8.02	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	44.79	2.97
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	47.23	2.97
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing	54.54	2.97

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	56.98	2.97
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	179.91	2.97
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail.....	187.91	2.97
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0064 Timber Guide Rails (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post.....	114.68	11.78
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post.....	131.16	11.78
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post.....	260.34	11.78
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post.....	275.75	11.78
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post.....	319.66	11.78
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	14.25	1.41
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	20.18	1.41
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	23.66	1.41
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails.....	18.54	1.89
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails.....	21.39	1.89
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails.....	25.02	1.89
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	26.12	1.18
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	179.85	16.50
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	112.49	11.78
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable).....	10.22	2.54
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges.....	263.52	17.68
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084) Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail.....	192.59	54.47
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.52	
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail.....	200.59	54.47
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.52	
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail.....	200.59	54.47
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.52	
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail.....	208.58	54.47
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.52	
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit.....	125.02	21.79
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate.....	324.97	21.79
Note: For anchor unit.		
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors.....	586.88	236.21
34 71 13 26-0097 EA Turnbuckle Cable End Assembly.....	175.71	11.81
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors.....	567.68	5.87
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	583.68	5.87
34 71 13 26-0100 EA Breakaway Anchor Angle.....	223.70	11.81
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	103.80	5.87
34 71 13 26-0102 EA Driveway End Post Cap Assembly.....	87.81	5.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0103 EA End Post Ground Support Plates.....	47.82	5.87
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	41.82	5.87
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	49.82	5.87
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	57.82	5.87
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	495.62	11.81
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	527.62	11.81
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	351.66	11.81
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	215.78	5.87
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	223.70	11.81
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	239.52	17.68
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly..... Note: For use with slip impact post.	400.16	18.19
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device)..... Note: For use with slip impact post.	784.06	18.19
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System.....	232.21	18.19
34 71 13 26-0117 EA Cable End Assembly Rod..... Note: Includes cable end, threaded rod and keeper to anchor angle.	192.22	18.19
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
Note: Includes associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.57	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing.....	9.49	
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	72.62	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable)..... Note: Includes retensioning. Excludes splices.	4.20	
34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125 Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. For Flush Mounting Directly To Structure, Add	53.93 1.83	2.97
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices. For Flush Mounting Directly To Structure, Add	61.25 1.83	2.97
34 71 13 26-0128 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	81.97 2.44 1.83	2.97
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	89.28 2.44 1.83	2.97
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	846.93	35.36
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic)..... Note: Excludes splices.	934.91	35.36
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized..... Note: Excludes splices.	798.94	35.36
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	830.93	35.36
34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail.....	224.96	52.49
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic).....	280.94	52.49
34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123)		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	200.59 -5.00 14.52	54.47
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	208.58 -5.00 14.52	54.47
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	216.58 -5.00 14.52	54.47

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	224.58 -5.00 14.52	54.47
34 71 13 26-0144 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	192.59 -5.00 14.52	54.47
34 71 13 26-0145 EA Type I End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	200.59 -5.00 14.52	54.47
34 71 13 26-0146 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	184.59 -5.00 14.52	54.47
34 71 13 26-0147 EA Type II End Assembly Post (Rustic)..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	192.59 -5.00 14.52	54.47
34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate.....	110.12	10.61
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic).....	118.12	10.61
34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)		
Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post	4.65	
34 71 13 26-0153 LF Reset Box Beam Guide Rail	13.60	
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	90.94 1.83	10.61
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	98.25 1.83	10.61
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	110.16 2.44 1.83	10.61
34 71 13 26-0161 LF Shop Curved Box Beam Median Barrier Rustic..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	134.16 2.44 1.83	10.61
34 71 13 26-0162 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized..... Note: Excludes splices and post.	2,758.43	35.36
34 71 13 26-0164 EA Box Beam Median Barrier Type A End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,822.41	35.36
34 71 13 26-0165 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized..... Note: Excludes splices and post.	2,758.43	35.36
34 71 13 26-0166 EA Box Beam Median Barrier Type B End Treatment Section (Rustic)..... Note: Excludes splices and post.	2,822.41	35.36
34 71 13 26-0167 Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168 EA Splice for Box Beam Median Barrier.....	213.66	28.29
34 71 13 26-0169 EA Splice for Box Beam Median Barrier (Rustic).....	333.63	28.29
34 71 13 26-0170 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
Note: Includes all associated hardware.		
34 71 13 26-0171 EA Standard Post for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	200.59 -5.00 14.52	54.47
34 71 13 26-0172 EA Standard Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	208.58 -5.00 14.52	54.47
34 71 13 26-0173 EA Extra Long Post for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	216.58 -5.00 14.52	54.47
34 71 13 26-0174 EA Extra Long Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	224.58 -5.00 14.52	54.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0175 EA Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	184.59 -5.00 14.52	54.47
34 71 13 26-0176 EA Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	184.59 -5.00 14.52	54.47
34 71 13 26-0177 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	216.58 -5.00 14.52	54.47
34 71 13 26-0178 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	224.58 -5.00 14.52	54.47
34 71 13 26-0179 Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180 EA Box Beam Median Barrier End Cover Plate.....	137.68	24.90
34 71 13 26-0181 EA Box Beam Median Barrier End Cover Plate (Rustic)	145.68	24.90
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
Note: For existing guide rail.		
34 71 13 26-0183 LF Removal And Storage Of Box Beam Median Barrier and Posts	4.81	
34 71 13 26-0184 LF Reset Box Beam Median Barrier	14.23	
34 71 13 26-0185 Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0185)		
Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit..... <i>For Each Additional Set Of Anchor Rods, Add</i>	817.80 38.00	
34 71 13 26-0188 EA Reset Existing Anchorage Unit for All Types of Guide Rail..... Note: Includes excavation and backfill.	540.72	
34 71 13 26-0189 EA Removal Of Guide Rail Concrete Anchor Unit.....	599.56	
34 71 13 26-0190 Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0185)		
Note: Includes associated hardware.		
34 71 13 26-0191 EA Straighten And Reset Driven Post For Guide Rail	72.62	
34 71 13 26-0192 EA Straighten And Reset Post Mounted On Concrete For Guide Rail	84.14	
Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0193 Additional Wood and Steel Posts (34 71 13 26-0185)		
34 71 13 26-0194 LF 4" x 6" Wood Post..... <i>For Installation In Rock, Add</i>	62.25 4.85	18.19
34 71 13 26-0195 LF 6" x 8" Wood Post..... <i>For Installation In Rock, Add</i>	74.24 4.85	18.19
34 71 13 26-0196 LF 6" x 7/8" Galvanized Steel Post..... <i>For Installation In Rock, Add</i>	46.92 4.85	18.19
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete	431.03	18.19
34 71 13 26-0198 Accessories For All Types of Guide Rail (34 71 13 26-0185)		
34 71 13 26-0199 EA Reflector For Guard Rail.....	51.95	
34 71 13 26-0200 Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High	97.82	7.21
34 71 13 26-0202 Individual Concrete Guard Rail Posts (34 71 13 26)		
34 71 13 26-0203 EA 6'-5" Concrete Guard Rail Posts, Round	89.35	7.21
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	99.95	8.12
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular.....	97.33	8.12
34 71 13 26-0206 Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0206)		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	794.82	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate	474.91	
Note: For making cable connections.		
34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0206)		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	810.82	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate	474.91	
Note: For making cable connections.		
34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0206)		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate	111.47	18.86
34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection	1,114.74	
34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier	714.85	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail	914.79	
34 71 13 26-0220 Transition Railing (Monterey County) (34 71 13 26)		
Note: Complete with rail, posts, transition and bolts.		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County)	3,317.13	2.35
34 71 16 Impact Attenuating Devices (34 71)		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals (34 71 16)		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	36,445.07	3,598.81
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	50,646.88	4,798.41
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	69,160.84	6,297.92
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	76,747.45	7,797.42
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	39,216.91	4,048.66
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	54,667.61	5,398.21
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	75,061.82	7,197.62
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	85,892.15	8,697.13
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	42,021.51	4,498.51
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	58,720.33	5,998.02
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	80,331.94	7,947.38
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	95,003.12	9,596.84
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	45,491.41	4,948.36
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	63,032.40	6,597.82
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	86,637.94	8,697.13
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	101,972.66	10,496.54
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	49,057.91	5,398.21
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	67,457.92	7,197.62
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	93,770.93	9,596.84
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	109,141.28	11,396.24
34 71 19 Vehicle Delineators (34 71)		
34 71 19 16 Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator	95.11	9.02
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator	96.46	9.02
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	97.82	9.02
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator	99.17	9.02
34 80 Bridges (34)		
34 82 Bridge Specialties (34 80)		
34 82 23 Bridge Railing (34 82)		
34 82 23 00-0001 Metal Bridge Railing (34 82 23)		
Note: Includes hardware for bridge rail mounting.		



Transportation	34	
Bridges	34 80	34
Bridge Specialties	34 82	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0002	LF		2" x 2" x 1/8" Bridge Railing	40.61	3.77
34 82 23 00-0003	LF		3" x 3" x 5/16" Bridge Railing	69.77	5.89
34 82 23 00-0004	LF		5" x 3" x 1/4" Bridge Railing	89.64	8.63
34 82 23 00-0005	LF		6" x 6" x 3/16" Bridge Railing	118.86	10.85
34 82 23 00-0006	LF		5" Outside Diameter x 1/4" Bridge Railing	95.58	8.37
34 82 23 00-0007			Bridge Post <small>(34 82 23)</small>		
			Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA		6" x 9" x 5'-6" Bridge Post	167.70	50.16
34 82 23 00-0009	EA		6" x 9" x 7' Bridge Post	206.38	53.31
34 82 23 00-0010	EA		Two Rail With Base Plate Bridge Post Assembly	468.38	94.06
34 82 23 00-0011	EA		Two Rail With Curb Bridge Post Assembly	571.45	100.33
34 82 23 00-0012	EA		Two Rail (Curbless) Bridge Post Assembly	523.58	100.33
34 82 23 00-0013	EA		Two Rail With Optional Handrail Bridge Post Assembly	625.48	100.33
34 82 23 00-0014	EA		Three Rail With Base Plate Bridge Post Assembly	486.22	100.33
34 82 23 00-0015	EA		Three Rail With Curb Bridge Post Assembly	654.29	103.47
34 82 23 00-0016	EA		Three Rail (Curbless) Bridge Post Assembly	641.67	103.47
34 82 23 00-0017	EA		Three Rail With Optional Handrail Bridge Post Assembly	784.96	103.47
34 82 23 00-0018	EA		Four Rail (Curbless) With Base Plate Bridge Post	539.47	106.60
34 82 23 00-0019	EA		Four Rail With Base Plate (Sidewalk Type) Bridge Post	539.60	106.60
34 82 23 00-0020	EA		Four Rail With Curb Bridge Post Assembly	795.70	106.60
34 82 23 00-0021	EA		Four Rail (Curbless) Bridge Post Assembly	816.50	106.60
34 82 23 00-0022	EA		Five Rail With Base Plate (Curbless) Bridge Post Assembly	598.70	112.87
34 82 23 00-0023			Bridge Railing Splices <small>(34 82 23)</small>		
			Note: Includes hardware for splices.		
34 82 23 00-0024	EA		5" Outside Diameter Bridge Railing Splice	242.44	24.13
34 82 23 00-0025	EA		5" x 3" Bridge Railing Splice	145.63	21.11
34 82 23 00-0026	EA		3" x 3" Bridge Railing Splice	90.05	15.08
34 82 23 00-0027	EA		2" x 2" Bridge Railing Splice	46.55	10.86
34 82 23 00-0028	EA		5" x 5" x 3' Expansion Splice Tube	185.15	23.33
34 82 23 00-0029	EA		4" x 2" x 3' Expansion Splice Bar	196.85	23.33
34 82 23 00-0030	EA		5" x 5" x 2' Fixed Splice Tube	169.77	23.33
34 82 23 00-0031	EA		4" x 2" x 2' Fixed Splice Bar	174.00	23.33
34 82 23 00-0032	EA		6" x 6" x 3/16" Box x 9' Flare Tube	250.01	31.50
34 82 23 00-0033			Transition For Bridge Railing <small>(34 82 23)</small>		
			Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034	EA		Two Rail Box Beam To Bridge Transition With Splices	1,018.84	125.41
34 82 23 00-0035	EA		Three Rail Box Beam To Bridge Transition With Splices	1,083.75	131.69
34 82 23 00-0036	EA		Four Rail Box Beam To Bridge Transition With Splices	1,259.48	137.95
34 82 23 00-0037	EA		6" x 6" x 16-1/2' Bottom Transition Tube	433.08	62.70
34 82 23 00-0038	EA		6" x 6" x 22' Bottom Transition Tube	531.61	68.98
34 82 23 00-0039	EA		8" x 6" x 16-1/2' Bottom Transition Tube	501.94	62.70
34 82 23 00-0040	EA		6" x 6" x 16-1/2' Top Transition Tube	443.43	62.70
34 82 23 00-0041	EA		6" x 6" x 21-1/2' Top Transition Tube	523.06	68.98
34 82 23 00-0042	EA		8" x 6" x 16-1/2' Top Transition Tube	514.78	62.70
34 82 23 00-0043	EA		6" x 6" x 16-1/2' Middle Transition Tube	418.89	62.70
34 82 23 00-0044	EA		8" x 6" x 16-1/2' Middle Transition Tube	508.36	62.70
34 82 23 00-0045			Anchor Plates And End Caps For Bridge Railing <small>(34 82 23)</small>		
34 82 23 00-0046	EA		14" x 14" Bridge Railing Anchor Plate	45.63	6.03
34 82 23 00-0047	EA		18" x 22" Deck Anchor Plate	273.44	30.15
34 82 23 00-0048	EA		2" x 2" Bridge Railing End Cap	36.45	3.02
34 82 23 00-0049	EA		3" x 3" Bridge Railing End Cap	23.16	3.02
34 82 23 00-0050	EA		5" O.D Bridge Railing End Cap	23.00	3.02
34 82 26			Bridge Slope Protection <small>(34 82)</small>		
34 82 26 00-0001			Bridge Slope Protection <small>(34 82 26)</small>		
			Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002	SF		8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection	15.14	5.69
34 82 26 00-0003	SF		8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection	18.14	6.27
34 82 26 00-0004	SF		8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection	20.11	6.66

END OF SECTION 34

34 Transportation

34 80 Bridges

34 82 Bridge Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction
35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001	Rubber Dam Repair ^(35 05 70)		
35 05 70 00-0002	EA Class A Rubber Dam Repair (Bullet And Similar Holes).....		39.05
35 05 70 00-0003	SF Class B Rubber Dam Repair (Minor Surface Rubber Damage).....		78.12
35 05 70 00-0004	SF Class C Rubber Dam Repair (Major Surface Rubber Damage).....		114.16
35 05 70 00-0005	SF Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material		127.69

END OF SECTION 35

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction

35 05 70 Common Work Results for Dams



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) <small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets.</small>		
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	909.95	240.23
	<i>For Class 52 Rating, Deduct</i>	-60.06	
	<i>For Class 54 Rating, Add</i>	86.26	
	<i>For Class 55 Rating, Add</i>	130.49	
	<i>For Class 56 Rating, Add</i>	174.16	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	974.73	244.42
	<i>For Class 52 Rating, Deduct</i>	-66.48	
	<i>For Class 54 Rating, Add</i>	95.10	
	<i>For Class 55 Rating, Add</i>	143.67	
	<i>For Class 56 Rating, Add</i>	191.63	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,039.52	248.63
	<i>For Class 52 Rating, Deduct</i>	-72.91	
	<i>For Class 54 Rating, Add</i>	103.94	
	<i>For Class 55 Rating, Add</i>	156.85	
	<i>For Class 56 Rating, Add</i>	209.09	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,104.29	252.82
	<i>For Class 52 Rating, Deduct</i>	-79.33	
	<i>For Class 54 Rating, Add</i>	112.78	
	<i>For Class 55 Rating, Add</i>	170.03	
	<i>For Class 56 Rating, Add</i>	226.55	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.07	257.02
	<i>For Class 52 Rating, Deduct</i>	-85.76	
	<i>For Class 54 Rating, Add</i>	121.62	
	<i>For Class 55 Rating, Add</i>	183.21	
	<i>For Class 56 Rating, Add</i>	244.01	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,233.86	261.22
	<i>For Class 52 Rating, Deduct</i>	-92.19	
	<i>For Class 54 Rating, Add</i>	130.46	
	<i>For Class 55 Rating, Add</i>	196.39	
	<i>For Class 56 Rating, Add</i>	261.48	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,298.63	265.42
	<i>For Class 52 Rating, Deduct</i>	-98.61	
	<i>For Class 54 Rating, Add</i>	139.30	
	<i>For Class 55 Rating, Add</i>	209.56	
	<i>For Class 56 Rating, Add</i>	278.94	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,363.41	269.63
	<i>For Class 52 Rating, Deduct</i>	-105.04	
	<i>For Class 54 Rating, Add</i>	148.14	
	<i>For Class 55 Rating, Add</i>	222.74	
	<i>For Class 56 Rating, Add</i>	296.40	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,428.20	273.82
	<i>For Class 52 Rating, Deduct</i>	-111.46	
	<i>For Class 54 Rating, Add</i>	156.98	
	<i>For Class 55 Rating, Add</i>	235.93	
	<i>For Class 56 Rating, Add</i>	313.86	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,492.97	278.03
	<i>For Class 52 Rating, Deduct</i>	-117.89	
	<i>For Class 54 Rating, Add</i>	165.81	
	<i>For Class 55 Rating, Add</i>	249.10	
	<i>For Class 56 Rating, Add</i>	331.32	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,557.75	282.22
	<i>For Class 52 Rating, Deduct</i>	-124.32	
	<i>For Class 54 Rating, Add</i>	174.65	
	<i>For Class 55 Rating, Add</i>	262.28	
	<i>For Class 56 Rating, Add</i>	348.79	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,622.54	286.42
	<i>For Class 52 Rating, Deduct</i>	-130.74	
	<i>For Class 54 Rating, Add</i>	183.49	
	<i>For Class 55 Rating, Add</i>	275.46	
	<i>For Class 56 Rating, Add</i>	366.25	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,687.31	290.62
	<i>For Class 52 Rating, Deduct</i>	-137.17	
	<i>For Class 54 Rating, Add</i>	192.33	
	<i>For Class 55 Rating, Add</i>	288.64	
	<i>For Class 56 Rating, Add</i>	383.71	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA		4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,752.09	294.82
			<i>For Class 52 Rating, Deduct</i>	-143.59	
			<i>For Class 54 Rating, Add</i>	201.17	
			<i>For Class 55 Rating, Add</i>	301.82	
			<i>For Class 56 Rating, Add</i>	401.17	
40 05 19 00-0018	EA		4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,816.88	299.02
			<i>For Class 52 Rating, Deduct</i>	-150.02	
			<i>For Class 54 Rating, Add</i>	210.01	
			<i>For Class 55 Rating, Add</i>	315.00	
			<i>For Class 56 Rating, Add</i>	418.63	
40 05 19 00-0019	EA		4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,881.64	303.22
			<i>For Class 52 Rating, Deduct</i>	-156.44	
			<i>For Class 54 Rating, Add</i>	218.85	
			<i>For Class 55 Rating, Add</i>	328.18	
			<i>For Class 56 Rating, Add</i>	436.09	
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.42	307.42
			<i>For Class 52 Rating, Deduct</i>	-162.87	
			<i>For Class 54 Rating, Add</i>	227.69	
			<i>For Class 55 Rating, Add</i>	341.36	
			<i>For Class 56 Rating, Add</i>	453.56	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,011.21	311.62
			<i>For Class 52 Rating, Deduct</i>	-169.30	
			<i>For Class 54 Rating, Add</i>	236.52	
			<i>For Class 55 Rating, Add</i>	354.54	
			<i>For Class 56 Rating, Add</i>	471.02	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,075.98	315.82
			<i>For Class 52 Rating, Deduct</i>	-175.72	
			<i>For Class 54 Rating, Add</i>	245.36	
			<i>For Class 55 Rating, Add</i>	367.72	
			<i>For Class 56 Rating, Add</i>	488.48	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,140.76	320.02
			<i>For Class 52 Rating, Deduct</i>	-182.15	
			<i>For Class 54 Rating, Add</i>	254.20	
			<i>For Class 55 Rating, Add</i>	380.90	
			<i>For Class 56 Rating, Add</i>	505.94	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,205.55	324.22
			<i>For Class 52 Rating, Deduct</i>	-188.57	
			<i>For Class 54 Rating, Add</i>	263.04	
			<i>For Class 55 Rating, Add</i>	394.08	
			<i>For Class 56 Rating, Add</i>	523.41	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,270.33	328.42
			<i>For Class 52 Rating, Deduct</i>	-195.00	
			<i>For Class 54 Rating, Add</i>	271.88	
			<i>For Class 55 Rating, Add</i>	407.26	
			<i>For Class 56 Rating, Add</i>	540.87	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.10	332.62
			<i>For Class 52 Rating, Deduct</i>	-201.43	
			<i>For Class 54 Rating, Add</i>	280.72	
			<i>For Class 55 Rating, Add</i>	420.44	
			<i>For Class 56 Rating, Add</i>	558.33	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,399.89	336.82
			<i>For Class 52 Rating, Deduct</i>	-207.85	
			<i>For Class 54 Rating, Add</i>	289.56	
			<i>For Class 55 Rating, Add</i>	433.62	
			<i>For Class 56 Rating, Add</i>	575.79	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.67	341.02
			<i>For Class 52 Rating, Deduct</i>	-214.28	
			<i>For Class 54 Rating, Add</i>	298.40	
			<i>For Class 55 Rating, Add</i>	446.80	
			<i>For Class 56 Rating, Add</i>	593.25	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,529.45	345.21
			<i>For Class 52 Rating, Deduct</i>	-220.70	
			<i>For Class 54 Rating, Add</i>	307.24	
			<i>For Class 55 Rating, Add</i>	459.98	
			<i>For Class 56 Rating, Add</i>	610.72	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,594.23	349.42
			<i>For Class 52 Rating, Deduct</i>	-227.13	
			<i>For Class 54 Rating, Add</i>	316.07	
			<i>For Class 55 Rating, Add</i>	473.16	
			<i>For Class 56 Rating, Add</i>	628.18	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,659.01	353.61
			<i>For Class 52 Rating, Deduct</i>	-233.56	
			<i>For Class 54 Rating, Add</i>	324.91	
			<i>For Class 55 Rating, Add</i>	486.34	
			<i>For Class 56 Rating, Add</i>	645.64	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,723.79	357.82
			<i>For Class 52 Rating, Deduct</i>	-239.98	
			<i>For Class 54 Rating, Add</i>	333.75	
			<i>For Class 55 Rating, Add</i>	499.52	
			<i>For Class 56 Rating, Add</i>	663.10	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,788.57	362.02
			<i>For Class 52 Rating, Deduct</i>	-246.41	
			<i>For Class 54 Rating, Add</i>	342.59	
			<i>For Class 55 Rating, Add</i>	512.70	
			<i>For Class 56 Rating, Add</i>	680.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,853.35	366.22
<i>For Class 52 Rating, Deduct</i>	-252.83	
<i>For Class 54 Rating, Add</i>	351.43	
<i>For Class 55 Rating, Add</i>	525.88	
<i>For Class 56 Rating, Add</i>	698.03	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,918.13	370.42
<i>For Class 52 Rating, Deduct</i>	-259.26	
<i>For Class 54 Rating, Add</i>	360.27	
<i>For Class 55 Rating, Add</i>	539.06	
<i>For Class 56 Rating, Add</i>	715.49	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,982.91	374.61
<i>For Class 52 Rating, Deduct</i>	-265.68	
<i>For Class 54 Rating, Add</i>	369.11	
<i>For Class 55 Rating, Add</i>	552.24	
<i>For Class 56 Rating, Add</i>	732.95	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,047.69	378.82
<i>For Class 52 Rating, Deduct</i>	-272.11	
<i>For Class 54 Rating, Add</i>	377.95	
<i>For Class 55 Rating, Add</i>	565.42	
<i>For Class 56 Rating, Add</i>	750.41	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.47	383.01
<i>For Class 52 Rating, Deduct</i>	-278.54	
<i>For Class 54 Rating, Add</i>	386.78	
<i>For Class 55 Rating, Add</i>	578.60	
<i>For Class 56 Rating, Add</i>	767.87	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,177.25	387.22
<i>For Class 52 Rating, Deduct</i>	-284.96	
<i>For Class 54 Rating, Add</i>	395.62	
<i>For Class 55 Rating, Add</i>	591.78	
<i>For Class 56 Rating, Add</i>	785.34	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,242.03	391.41
<i>For Class 52 Rating, Deduct</i>	-291.39	
<i>For Class 54 Rating, Add</i>	404.46	
<i>For Class 55 Rating, Add</i>	604.96	
<i>For Class 56 Rating, Add</i>	802.80	
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,306.81	395.62
<i>For Class 52 Rating, Deduct</i>	-297.81	
<i>For Class 54 Rating, Add</i>	413.30	
<i>For Class 55 Rating, Add</i>	618.13	
<i>For Class 56 Rating, Add</i>	820.26	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,371.59	399.81
<i>For Class 52 Rating, Deduct</i>	-304.24	
<i>For Class 54 Rating, Add</i>	422.14	
<i>For Class 55 Rating, Add</i>	631.31	
<i>For Class 56 Rating, Add</i>	837.72	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.41	302.38
<i>For Class 52 Rating, Deduct</i>	-76.37	
<i>For Class 54 Rating, Add</i>	109.64	
<i>For Class 55 Rating, Add</i>	165.82	
<i>For Class 56 Rating, Add</i>	221.30	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,230.67	306.58
<i>For Class 52 Rating, Deduct</i>	-84.28	
<i>For Class 54 Rating, Add</i>	120.50	
<i>For Class 55 Rating, Add</i>	182.00	
<i>For Class 56 Rating, Add</i>	242.74	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,308.94	310.78
<i>For Class 52 Rating, Deduct</i>	-92.19	
<i>For Class 54 Rating, Add</i>	131.36	
<i>For Class 55 Rating, Add</i>	198.19	
<i>For Class 56 Rating, Add</i>	264.18	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,387.19	314.98
<i>For Class 52 Rating, Deduct</i>	-100.09	
<i>For Class 54 Rating, Add</i>	142.22	
<i>For Class 55 Rating, Add</i>	214.37	
<i>For Class 56 Rating, Add</i>	285.62	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,465.45	319.18
<i>For Class 52 Rating, Deduct</i>	-108.00	
<i>For Class 54 Rating, Add</i>	153.08	
<i>For Class 55 Rating, Add</i>	230.56	
<i>For Class 56 Rating, Add</i>	307.06	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.72	323.38
<i>For Class 52 Rating, Deduct</i>	-115.91	
<i>For Class 54 Rating, Add</i>	163.94	
<i>For Class 55 Rating, Add</i>	246.75	
<i>For Class 56 Rating, Add</i>	328.50	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,621.98	327.57
<i>For Class 52 Rating, Deduct</i>	-123.82	
<i>For Class 54 Rating, Add</i>	174.80	
<i>For Class 55 Rating, Add</i>	262.93	
<i>For Class 56 Rating, Add</i>	349.93	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,700.23	331.78
			<i>For Class 52 Rating, Deduct</i>	-131.73	
			<i>For Class 54 Rating, Add</i>	185.66	
			<i>For Class 55 Rating, Add</i>	279.12	
			<i>For Class 56 Rating, Add</i>	371.37	
40 05 19 00-0052	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,778.50	335.98
			<i>For Class 52 Rating, Deduct</i>	-139.64	
			<i>For Class 54 Rating, Add</i>	196.52	
			<i>For Class 55 Rating, Add</i>	295.30	
			<i>For Class 56 Rating, Add</i>	392.81	
40 05 19 00-0053	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,856.76	340.18
			<i>For Class 52 Rating, Deduct</i>	-147.55	
			<i>For Class 54 Rating, Add</i>	207.39	
			<i>For Class 55 Rating, Add</i>	311.49	
			<i>For Class 56 Rating, Add</i>	414.25	
40 05 19 00-0054	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,935.02	344.38
			<i>For Class 52 Rating, Deduct</i>	-155.46	
			<i>For Class 54 Rating, Add</i>	218.25	
			<i>For Class 55 Rating, Add</i>	327.68	
			<i>For Class 56 Rating, Add</i>	435.69	
40 05 19 00-0055	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,013.28	348.58
			<i>For Class 52 Rating, Deduct</i>	-163.36	
			<i>For Class 54 Rating, Add</i>	229.11	
			<i>For Class 55 Rating, Add</i>	343.86	
			<i>For Class 56 Rating, Add</i>	457.13	
40 05 19 00-0056	EA		6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,091.54	352.78
			<i>For Class 52 Rating, Deduct</i>	-171.27	
			<i>For Class 54 Rating, Add</i>	239.97	
			<i>For Class 55 Rating, Add</i>	360.05	
			<i>For Class 56 Rating, Add</i>	478.57	
40 05 19 00-0057	EA		6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,169.81	356.97
			<i>For Class 52 Rating, Deduct</i>	-179.18	
			<i>For Class 54 Rating, Add</i>	250.83	
			<i>For Class 55 Rating, Add</i>	376.23	
			<i>For Class 56 Rating, Add</i>	500.01	
40 05 19 00-0058	EA		6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,248.07	361.18
			<i>For Class 52 Rating, Deduct</i>	-187.09	
			<i>For Class 54 Rating, Add</i>	261.69	
			<i>For Class 55 Rating, Add</i>	392.42	
			<i>For Class 56 Rating, Add</i>	521.45	
40 05 19 00-0059	EA		6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,326.33	365.37
			<i>For Class 52 Rating, Deduct</i>	-195.00	
			<i>For Class 54 Rating, Add</i>	272.55	
			<i>For Class 55 Rating, Add</i>	408.61	
			<i>For Class 56 Rating, Add</i>	542.88	
40 05 19 00-0060	EA		6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,404.59	369.58
			<i>For Class 52 Rating, Deduct</i>	-202.91	
			<i>For Class 54 Rating, Add</i>	283.41	
			<i>For Class 55 Rating, Add</i>	424.79	
			<i>For Class 56 Rating, Add</i>	564.32	
40 05 19 00-0061	EA		6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,482.85	373.77
			<i>For Class 52 Rating, Deduct</i>	-210.82	
			<i>For Class 54 Rating, Add</i>	294.27	
			<i>For Class 55 Rating, Add</i>	440.98	
			<i>For Class 56 Rating, Add</i>	585.76	
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.11	377.98
			<i>For Class 52 Rating, Deduct</i>	-218.73	
			<i>For Class 54 Rating, Add</i>	305.14	
			<i>For Class 55 Rating, Add</i>	457.16	
			<i>For Class 56 Rating, Add</i>	607.20	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.38	382.18
			<i>For Class 52 Rating, Deduct</i>	-226.64	
			<i>For Class 54 Rating, Add</i>	316.00	
			<i>For Class 55 Rating, Add</i>	473.35	
			<i>For Class 56 Rating, Add</i>	628.64	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,717.63	386.37
			<i>For Class 52 Rating, Deduct</i>	-234.54	
			<i>For Class 54 Rating, Add</i>	326.86	
			<i>For Class 55 Rating, Add</i>	489.53	
			<i>For Class 56 Rating, Add</i>	650.08	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.89	390.58
			<i>For Class 52 Rating, Deduct</i>	-242.45	
			<i>For Class 54 Rating, Add</i>	337.72	
			<i>For Class 55 Rating, Add</i>	505.72	
			<i>For Class 56 Rating, Add</i>	671.52	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,874.16	394.77
			<i>For Class 52 Rating, Deduct</i>	-250.36	
			<i>For Class 54 Rating, Add</i>	348.58	
			<i>For Class 55 Rating, Add</i>	521.91	
			<i>For Class 56 Rating, Add</i>	692.96	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,952.42	398.98
			<i>For Class 52 Rating, Deduct</i>	-258.27	
			<i>For Class 54 Rating, Add</i>	359.44	
			<i>For Class 55 Rating, Add</i>	538.09	
			<i>For Class 56 Rating, Add</i>	714.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,030.67	403.17
<i>For Class 52 Rating, Deduct</i>	-266.18	
<i>For Class 54 Rating, Add</i>	370.30	
<i>For Class 55 Rating, Add</i>	554.28	
<i>For Class 56 Rating, Add</i>	735.83	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,108.94	407.38
<i>For Class 52 Rating, Deduct</i>	-274.09	
<i>For Class 54 Rating, Add</i>	381.16	
<i>For Class 55 Rating, Add</i>	570.46	
<i>For Class 56 Rating, Add</i>	757.27	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,187.20	411.57
<i>For Class 52 Rating, Deduct</i>	-282.00	
<i>For Class 54 Rating, Add</i>	392.02	
<i>For Class 55 Rating, Add</i>	586.65	
<i>For Class 56 Rating, Add</i>	778.71	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,265.46	415.77
<i>For Class 52 Rating, Deduct</i>	-289.91	
<i>For Class 54 Rating, Add</i>	402.88	
<i>For Class 55 Rating, Add</i>	602.84	
<i>For Class 56 Rating, Add</i>	800.15	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,343.72	419.97
<i>For Class 52 Rating, Deduct</i>	-297.81	
<i>For Class 54 Rating, Add</i>	413.74	
<i>For Class 55 Rating, Add</i>	619.02	
<i>For Class 56 Rating, Add</i>	821.59	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.98	424.17
<i>For Class 52 Rating, Deduct</i>	-305.72	
<i>For Class 54 Rating, Add</i>	424.61	
<i>For Class 55 Rating, Add</i>	635.21	
<i>For Class 56 Rating, Add</i>	843.03	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,500.24	428.38
<i>For Class 52 Rating, Deduct</i>	-313.63	
<i>For Class 54 Rating, Add</i>	435.47	
<i>For Class 55 Rating, Add</i>	651.39	
<i>For Class 56 Rating, Add</i>	864.47	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,578.51	432.57
<i>For Class 52 Rating, Deduct</i>	-321.54	
<i>For Class 54 Rating, Add</i>	446.33	
<i>For Class 55 Rating, Add</i>	667.58	
<i>For Class 56 Rating, Add</i>	885.91	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,656.76	436.78
<i>For Class 52 Rating, Deduct</i>	-329.45	
<i>For Class 54 Rating, Add</i>	457.19	
<i>For Class 55 Rating, Add</i>	683.76	
<i>For Class 56 Rating, Add</i>	907.34	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,735.01	440.97
<i>For Class 52 Rating, Deduct</i>	-337.36	
<i>For Class 54 Rating, Add</i>	468.05	
<i>For Class 55 Rating, Add</i>	699.95	
<i>For Class 56 Rating, Add</i>	928.78	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,813.28	445.17
<i>For Class 52 Rating, Deduct</i>	-345.27	
<i>For Class 54 Rating, Add</i>	478.91	
<i>For Class 55 Rating, Add</i>	716.14	
<i>For Class 56 Rating, Add</i>	950.22	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,891.54	449.37
<i>For Class 52 Rating, Deduct</i>	-353.17	
<i>For Class 54 Rating, Add</i>	489.77	
<i>For Class 55 Rating, Add</i>	732.32	
<i>For Class 56 Rating, Add</i>	971.66	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,969.79	453.57
<i>For Class 52 Rating, Deduct</i>	-361.08	
<i>For Class 54 Rating, Add</i>	500.63	
<i>For Class 55 Rating, Add</i>	748.51	
<i>For Class 56 Rating, Add</i>	993.10	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,048.06	457.77
<i>For Class 52 Rating, Deduct</i>	-368.99	
<i>For Class 54 Rating, Add</i>	511.49	
<i>For Class 55 Rating, Add</i>	764.69	
<i>For Class 56 Rating, Add</i>	1,014.54	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,126.32	461.97
<i>For Class 52 Rating, Deduct</i>	-376.90	
<i>For Class 54 Rating, Add</i>	522.35	
<i>For Class 55 Rating, Add</i>	780.88	
<i>For Class 56 Rating, Add</i>	1,035.98	
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,607.71	386.37
<i>For Class 52 Rating, Deduct</i>	-112.45	
<i>For Class 54 Rating, Add</i>	160.37	
<i>For Class 55 Rating, Add</i>	242.02	
<i>For Class 56 Rating, Add</i>	322.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,712.93	390.58
			<i>For Class 52 Rating, Deduct</i>	-123.33	
			<i>For Class 54 Rating, Add</i>	175.27	
			<i>For Class 55 Rating, Add</i>	264.22	
			<i>For Class 56 Rating, Add</i>	352.04	
40 05 19 00-0086	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,818.16	394.77
			<i>For Class 52 Rating, Deduct</i>	-134.20	
			<i>For Class 54 Rating, Add</i>	190.18	
			<i>For Class 55 Rating, Add</i>	286.42	
			<i>For Class 56 Rating, Add</i>	381.44	
40 05 19 00-0087	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,923.38	398.98
			<i>For Class 52 Rating, Deduct</i>	-145.08	
			<i>For Class 54 Rating, Add</i>	205.08	
			<i>For Class 55 Rating, Add</i>	308.62	
			<i>For Class 56 Rating, Add</i>	410.83	
40 05 19 00-0088	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.60	403.17
			<i>For Class 52 Rating, Deduct</i>	-155.95	
			<i>For Class 54 Rating, Add</i>	219.99	
			<i>For Class 55 Rating, Add</i>	330.81	
			<i>For Class 56 Rating, Add</i>	440.22	
40 05 19 00-0089	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,133.83	407.38
			<i>For Class 52 Rating, Deduct</i>	-166.82	
			<i>For Class 54 Rating, Add</i>	234.90	
			<i>For Class 55 Rating, Add</i>	353.01	
			<i>For Class 56 Rating, Add</i>	469.61	
40 05 19 00-0090	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,239.05	411.57
			<i>For Class 52 Rating, Deduct</i>	-177.70	
			<i>For Class 54 Rating, Add</i>	249.80	
			<i>For Class 55 Rating, Add</i>	375.21	
			<i>For Class 56 Rating, Add</i>	499.01	
40 05 19 00-0091	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,344.27	415.77
			<i>For Class 52 Rating, Deduct</i>	-188.57	
			<i>For Class 54 Rating, Add</i>	264.71	
			<i>For Class 55 Rating, Add</i>	397.41	
			<i>For Class 56 Rating, Add</i>	528.40	
40 05 19 00-0092	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,449.50	419.97
			<i>For Class 52 Rating, Deduct</i>	-199.45	
			<i>For Class 54 Rating, Add</i>	279.61	
			<i>For Class 55 Rating, Add</i>	419.61	
			<i>For Class 56 Rating, Add</i>	557.79	
40 05 19 00-0093	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,554.72	424.17
			<i>For Class 52 Rating, Deduct</i>	-210.32	
			<i>For Class 54 Rating, Add</i>	294.52	
			<i>For Class 55 Rating, Add</i>	441.81	
			<i>For Class 56 Rating, Add</i>	587.19	
40 05 19 00-0094	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,659.94	428.38
			<i>For Class 52 Rating, Deduct</i>	-221.20	
			<i>For Class 54 Rating, Add</i>	309.42	
			<i>For Class 55 Rating, Add</i>	464.01	
			<i>For Class 56 Rating, Add</i>	616.58	
40 05 19 00-0095	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,765.17	432.57
			<i>For Class 52 Rating, Deduct</i>	-232.07	
			<i>For Class 54 Rating, Add</i>	324.33	
			<i>For Class 55 Rating, Add</i>	486.20	
			<i>For Class 56 Rating, Add</i>	645.97	
40 05 19 00-0096	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,870.38	436.78
			<i>For Class 52 Rating, Deduct</i>	-242.95	
			<i>For Class 54 Rating, Add</i>	339.23	
			<i>For Class 55 Rating, Add</i>	508.40	
			<i>For Class 56 Rating, Add</i>	675.36	
40 05 19 00-0097	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,975.59	440.97
			<i>For Class 52 Rating, Deduct</i>	-253.82	
			<i>For Class 54 Rating, Add</i>	354.14	
			<i>For Class 55 Rating, Add</i>	530.60	
			<i>For Class 56 Rating, Add</i>	704.75	
40 05 19 00-0098	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,080.82	445.17
			<i>For Class 52 Rating, Deduct</i>	-264.70	
			<i>For Class 54 Rating, Add</i>	369.04	
			<i>For Class 55 Rating, Add</i>	552.80	
			<i>For Class 56 Rating, Add</i>	734.15	
40 05 19 00-0099	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,186.04	449.37
			<i>For Class 52 Rating, Deduct</i>	-275.57	
			<i>For Class 54 Rating, Add</i>	383.95	
			<i>For Class 55 Rating, Add</i>	575.00	
			<i>For Class 56 Rating, Add</i>	763.54	
40 05 19 00-0100	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,291.26	453.57
			<i>For Class 52 Rating, Deduct</i>	-286.44	
			<i>For Class 54 Rating, Add</i>	398.85	
			<i>For Class 55 Rating, Add</i>	597.19	
			<i>For Class 56 Rating, Add</i>	792.93	
40 05 19 00-0101	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,396.49	457.77
			<i>For Class 52 Rating, Deduct</i>	-297.32	
			<i>For Class 54 Rating, Add</i>	413.76	
			<i>For Class 55 Rating, Add</i>	619.39	
			<i>For Class 56 Rating, Add</i>	822.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,501.71	461.97
<i>For Class 52 Rating, Deduct</i>	-308.19	
<i>For Class 54 Rating, Add</i>	428.66	
<i>For Class 55 Rating, Add</i>	641.59	
<i>For Class 56 Rating, Add</i>	851.72	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,606.94	466.17
<i>For Class 52 Rating, Deduct</i>	-319.07	
<i>For Class 54 Rating, Add</i>	443.57	
<i>For Class 55 Rating, Add</i>	663.79	
<i>For Class 56 Rating, Add</i>	881.11	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,712.16	470.37
<i>For Class 52 Rating, Deduct</i>	-329.94	
<i>For Class 54 Rating, Add</i>	458.47	
<i>For Class 55 Rating, Add</i>	685.99	
<i>For Class 56 Rating, Add</i>	910.50	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,817.38	474.56
<i>For Class 52 Rating, Deduct</i>	-340.82	
<i>For Class 54 Rating, Add</i>	473.38	
<i>For Class 55 Rating, Add</i>	708.19	
<i>For Class 56 Rating, Add</i>	939.90	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,922.61	478.77
<i>For Class 52 Rating, Deduct</i>	-351.69	
<i>For Class 54 Rating, Add</i>	488.28	
<i>For Class 55 Rating, Add</i>	730.39	
<i>For Class 56 Rating, Add</i>	969.29	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,027.83	482.97
<i>For Class 52 Rating, Deduct</i>	-362.57	
<i>For Class 54 Rating, Add</i>	503.19	
<i>For Class 55 Rating, Add</i>	752.58	
<i>For Class 56 Rating, Add</i>	998.68	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,133.04	487.17
<i>For Class 52 Rating, Deduct</i>	-373.44	
<i>For Class 54 Rating, Add</i>	518.09	
<i>For Class 55 Rating, Add</i>	774.78	
<i>For Class 56 Rating, Add</i>	1,028.07	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,238.27	491.37
<i>For Class 52 Rating, Deduct</i>	-384.31	
<i>For Class 54 Rating, Add</i>	533.00	
<i>For Class 55 Rating, Add</i>	796.98	
<i>For Class 56 Rating, Add</i>	1,057.46	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,343.49	495.57
<i>For Class 52 Rating, Deduct</i>	-395.19	
<i>For Class 54 Rating, Add</i>	547.90	
<i>For Class 55 Rating, Add</i>	819.18	
<i>For Class 56 Rating, Add</i>	1,086.86	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,448.71	499.77
<i>For Class 52 Rating, Deduct</i>	-406.06	
<i>For Class 54 Rating, Add</i>	562.81	
<i>For Class 55 Rating, Add</i>	841.38	
<i>For Class 56 Rating, Add</i>	1,116.25	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,553.94	503.96
<i>For Class 52 Rating, Deduct</i>	-416.94	
<i>For Class 54 Rating, Add</i>	577.72	
<i>For Class 55 Rating, Add</i>	863.57	
<i>For Class 56 Rating, Add</i>	1,145.64	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,659.16	508.17
<i>For Class 52 Rating, Deduct</i>	-427.81	
<i>For Class 54 Rating, Add</i>	592.62	
<i>For Class 55 Rating, Add</i>	885.77	
<i>For Class 56 Rating, Add</i>	1,175.04	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,764.38	512.36
<i>For Class 52 Rating, Deduct</i>	-438.69	
<i>For Class 54 Rating, Add</i>	607.53	
<i>For Class 55 Rating, Add</i>	907.97	
<i>For Class 56 Rating, Add</i>	1,204.43	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,869.61	516.57
<i>For Class 52 Rating, Deduct</i>	-449.56	
<i>For Class 54 Rating, Add</i>	622.43	
<i>For Class 55 Rating, Add</i>	930.17	
<i>For Class 56 Rating, Add</i>	1,233.82	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,974.83	520.76
<i>For Class 52 Rating, Deduct</i>	-460.44	
<i>For Class 54 Rating, Add</i>	637.34	
<i>For Class 55 Rating, Add</i>	952.37	
<i>For Class 56 Rating, Add</i>	1,263.21	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,080.05	524.97
<i>For Class 52 Rating, Deduct</i>	-471.31	
<i>For Class 54 Rating, Add</i>	652.24	
<i>For Class 55 Rating, Add</i>	974.57	
<i>For Class 56 Rating, Add</i>	1,292.61	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,185.28	529.17
<i>For Class 52 Rating, Deduct</i>	-482.19	
<i>For Class 54 Rating, Add</i>	667.15	
<i>For Class 55 Rating, Add</i>	996.77	
<i>For Class 56 Rating, Add</i>	1,322.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,290.50	533.36
			<i>For Class 52 Rating, Deduct</i>	-493.06	
			<i>For Class 54 Rating, Add</i>	682.05	
			<i>For Class 55 Rating, Add</i>	1,018.96	
			<i>For Class 56 Rating, Add</i>	1,351.39	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,395.72	537.57
			<i>For Class 52 Rating, Deduct</i>	-503.94	
			<i>For Class 54 Rating, Add</i>	696.96	
			<i>For Class 55 Rating, Add</i>	1,041.16	
			<i>For Class 56 Rating, Add</i>	1,380.78	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,500.94	541.76
			<i>For Class 52 Rating, Deduct</i>	-514.81	
			<i>For Class 54 Rating, Add</i>	711.86	
			<i>For Class 55 Rating, Add</i>	1,063.36	
			<i>For Class 56 Rating, Add</i>	1,410.17	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,606.16	545.97
			<i>For Class 52 Rating, Deduct</i>	-525.68	
			<i>For Class 54 Rating, Add</i>	726.77	
			<i>For Class 55 Rating, Add</i>	1,085.56	
			<i>For Class 56 Rating, Add</i>	1,439.57	
40 05 19 00-0123			10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,024.81	470.37
			<i>For Class 52 Rating, Deduct</i>	-144.33	
			<i>For Class 54 Rating, Add</i>	205.37	
			<i>For Class 55 Rating, Add</i>	309.71	
			<i>For Class 56 Rating, Add</i>	412.73	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,161.49	474.56
			<i>For Class 52 Rating, Deduct</i>	-158.67	
			<i>For Class 54 Rating, Add</i>	225.00	
			<i>For Class 55 Rating, Add</i>	338.92	
			<i>For Class 56 Rating, Add</i>	451.41	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.17	478.77
			<i>For Class 52 Rating, Deduct</i>	-173.00	
			<i>For Class 54 Rating, Add</i>	244.62	
			<i>For Class 55 Rating, Add</i>	368.14	
			<i>For Class 56 Rating, Add</i>	490.08	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.84	482.97
			<i>For Class 52 Rating, Deduct</i>	-187.34	
			<i>For Class 54 Rating, Add</i>	264.24	
			<i>For Class 55 Rating, Add</i>	397.35	
			<i>For Class 56 Rating, Add</i>	528.75	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,571.52	487.17
			<i>For Class 52 Rating, Deduct</i>	-201.67	
			<i>For Class 54 Rating, Add</i>	283.87	
			<i>For Class 55 Rating, Add</i>	426.56	
			<i>For Class 56 Rating, Add</i>	567.42	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,708.20	491.37
			<i>For Class 52 Rating, Deduct</i>	-216.01	
			<i>For Class 54 Rating, Add</i>	303.49	
			<i>For Class 55 Rating, Add</i>	455.77	
			<i>For Class 56 Rating, Add</i>	606.09	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,844.88	495.57
			<i>For Class 52 Rating, Deduct</i>	-230.34	
			<i>For Class 54 Rating, Add</i>	323.11	
			<i>For Class 55 Rating, Add</i>	484.99	
			<i>For Class 56 Rating, Add</i>	644.77	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,981.55	499.77
			<i>For Class 52 Rating, Deduct</i>	-244.68	
			<i>For Class 54 Rating, Add</i>	342.74	
			<i>For Class 55 Rating, Add</i>	514.20	
			<i>For Class 56 Rating, Add</i>	683.44	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,118.24	503.96
			<i>For Class 52 Rating, Deduct</i>	-259.01	
			<i>For Class 54 Rating, Add</i>	362.36	
			<i>For Class 55 Rating, Add</i>	543.41	
			<i>For Class 56 Rating, Add</i>	722.11	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,254.91	508.17
			<i>For Class 52 Rating, Deduct</i>	-273.35	
			<i>For Class 54 Rating, Add</i>	381.98	
			<i>For Class 55 Rating, Add</i>	572.62	
			<i>For Class 56 Rating, Add</i>	760.78	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,391.59	512.36
			<i>For Class 52 Rating, Deduct</i>	-287.68	
			<i>For Class 54 Rating, Add</i>	401.61	
			<i>For Class 55 Rating, Add</i>	601.84	
			<i>For Class 56 Rating, Add</i>	799.45	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,528.27	516.57
			<i>For Class 52 Rating, Deduct</i>	-302.01	
			<i>For Class 54 Rating, Add</i>	421.23	
			<i>For Class 55 Rating, Add</i>	631.05	
			<i>For Class 56 Rating, Add</i>	838.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,664.94	520.76
<i>For Class 52 Rating, Deduct</i>	-316.35	
<i>For Class 54 Rating, Add</i>	440.85	
<i>For Class 55 Rating, Add</i>	660.26	
<i>For Class 56 Rating, Add</i>	876.80	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,801.62	524.97
<i>For Class 52 Rating, Deduct</i>	-330.68	
<i>For Class 54 Rating, Add</i>	460.48	
<i>For Class 55 Rating, Add</i>	689.48	
<i>For Class 56 Rating, Add</i>	915.47	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,938.30	529.17
<i>For Class 52 Rating, Deduct</i>	-345.02	
<i>For Class 54 Rating, Add</i>	480.10	
<i>For Class 55 Rating, Add</i>	718.69	
<i>For Class 56 Rating, Add</i>	954.14	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,074.98	533.36
<i>For Class 52 Rating, Deduct</i>	-359.35	
<i>For Class 54 Rating, Add</i>	499.73	
<i>For Class 55 Rating, Add</i>	747.90	
<i>For Class 56 Rating, Add</i>	992.81	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,211.65	537.57
<i>For Class 52 Rating, Deduct</i>	-373.69	
<i>For Class 54 Rating, Add</i>	519.35	
<i>For Class 55 Rating, Add</i>	777.11	
<i>For Class 56 Rating, Add</i>	1,031.48	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,348.34	541.76
<i>For Class 52 Rating, Deduct</i>	-388.02	
<i>For Class 54 Rating, Add</i>	538.97	
<i>For Class 55 Rating, Add</i>	806.33	
<i>For Class 56 Rating, Add</i>	1,070.16	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,485.01	545.97
<i>For Class 52 Rating, Deduct</i>	-402.36	
<i>For Class 54 Rating, Add</i>	558.60	
<i>For Class 55 Rating, Add</i>	835.54	
<i>For Class 56 Rating, Add</i>	1,108.83	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,621.68	550.16
<i>For Class 52 Rating, Deduct</i>	-416.69	
<i>For Class 54 Rating, Add</i>	578.22	
<i>For Class 55 Rating, Add</i>	864.75	
<i>For Class 56 Rating, Add</i>	1,147.50	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,758.37	554.37
<i>For Class 52 Rating, Deduct</i>	-431.03	
<i>For Class 54 Rating, Add</i>	597.84	
<i>For Class 55 Rating, Add</i>	893.97	
<i>For Class 56 Rating, Add</i>	1,186.17	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,895.04	558.56
<i>For Class 52 Rating, Deduct</i>	-445.36	
<i>For Class 54 Rating, Add</i>	617.47	
<i>For Class 55 Rating, Add</i>	923.18	
<i>For Class 56 Rating, Add</i>	1,224.84	
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,031.73	562.77
<i>For Class 52 Rating, Deduct</i>	-459.70	
<i>For Class 54 Rating, Add</i>	637.09	
<i>For Class 55 Rating, Add</i>	952.39	
<i>For Class 56 Rating, Add</i>	1,263.52	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,168.40	566.96
<i>For Class 52 Rating, Deduct</i>	-474.03	
<i>For Class 54 Rating, Add</i>	656.71	
<i>For Class 55 Rating, Add</i>	981.60	
<i>For Class 56 Rating, Add</i>	1,302.19	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,305.08	571.16
<i>For Class 52 Rating, Deduct</i>	-488.36	
<i>For Class 54 Rating, Add</i>	676.34	
<i>For Class 55 Rating, Add</i>	1,010.82	
<i>For Class 56 Rating, Add</i>	1,340.86	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,441.76	575.37
<i>For Class 52 Rating, Deduct</i>	-502.70	
<i>For Class 54 Rating, Add</i>	695.96	
<i>For Class 55 Rating, Add</i>	1,040.03	
<i>For Class 56 Rating, Add</i>	1,379.53	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,578.44	579.56
<i>For Class 52 Rating, Deduct</i>	-517.03	
<i>For Class 54 Rating, Add</i>	715.58	
<i>For Class 55 Rating, Add</i>	1,069.24	
<i>For Class 56 Rating, Add</i>	1,418.20	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,715.11	583.77
<i>For Class 52 Rating, Deduct</i>	-531.37	
<i>For Class 54 Rating, Add</i>	735.21	
<i>For Class 55 Rating, Add</i>	1,098.46	
<i>For Class 56 Rating, Add</i>	1,456.87	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,851.79	587.96
<i>For Class 52 Rating, Deduct</i>	-545.70	
<i>For Class 54 Rating, Add</i>	754.83	
<i>For Class 55 Rating, Add</i>	1,127.67	
<i>For Class 56 Rating, Add</i>	1,495.55	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA		10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,988.47	592.17
			<i>For Class 52 Rating, Deduct</i>	-560.04	
			<i>For Class 54 Rating, Add</i>	774.45	
			<i>For Class 55 Rating, Add</i>	1,156.88	
			<i>For Class 56 Rating, Add</i>	1,534.22	
40 05 19 00-0154	EA		10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,125.14	596.36
			<i>For Class 52 Rating, Deduct</i>	-574.37	
			<i>For Class 54 Rating, Add</i>	794.08	
			<i>For Class 55 Rating, Add</i>	1,186.09	
			<i>For Class 56 Rating, Add</i>	1,572.89	
40 05 19 00-0155	EA		10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,259.58	600.56
			<i>For Class 52 Rating, Deduct</i>	-588.46	
			<i>For Class 54 Rating, Add</i>	813.36	
			<i>For Class 55 Rating, Add</i>	1,214.81	
			<i>For Class 56 Rating, Add</i>	1,610.90	
40 05 19 00-0156	EA		10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,398.50	604.76
			<i>For Class 52 Rating, Deduct</i>	-603.04	
			<i>For Class 54 Rating, Add</i>	833.32	
			<i>For Class 55 Rating, Add</i>	1,244.52	
			<i>For Class 56 Rating, Add</i>	1,650.23	
40 05 19 00-0157	EA		10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,535.18	608.96
			<i>For Class 52 Rating, Deduct</i>	-617.38	
			<i>For Class 54 Rating, Add</i>	852.95	
			<i>For Class 55 Rating, Add</i>	1,273.73	
			<i>For Class 56 Rating, Add</i>	1,688.91	
40 05 19 00-0158	EA		10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,671.86	613.16
			<i>For Class 52 Rating, Deduct</i>	-631.71	
			<i>For Class 54 Rating, Add</i>	872.57	
			<i>For Class 55 Rating, Add</i>	1,302.95	
			<i>For Class 56 Rating, Add</i>	1,727.58	
40 05 19 00-0159	EA		10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,808.53	617.36
			<i>For Class 52 Rating, Deduct</i>	-646.05	
			<i>For Class 54 Rating, Add</i>	892.20	
			<i>For Class 55 Rating, Add</i>	1,332.16	
			<i>For Class 56 Rating, Add</i>	1,766.25	
40 05 19 00-0160	EA		10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,945.20	621.57
			<i>For Class 52 Rating, Deduct</i>	-660.38	
			<i>For Class 54 Rating, Add</i>	911.82	
			<i>For Class 55 Rating, Add</i>	1,361.37	
			<i>For Class 56 Rating, Add</i>	1,804.92	
40 05 19 00-0161	EA		10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,081.88	625.76
			<i>For Class 52 Rating, Deduct</i>	-674.71	
			<i>For Class 54 Rating, Add</i>	931.44	
			<i>For Class 55 Rating, Add</i>	1,390.58	
			<i>For Class 56 Rating, Add</i>	1,843.59	
40 05 19 00-0162	EA		10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,218.56	629.96
			<i>For Class 52 Rating, Deduct</i>	-689.05	
			<i>For Class 54 Rating, Add</i>	951.07	
			<i>For Class 55 Rating, Add</i>	1,419.80	
			<i>For Class 56 Rating, Add</i>	1,882.26	
40 05 19 00-0163			12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0164	EA		12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,647.86	587.96
			<i>For Class 52 Rating, Deduct</i>	-193.27	
			<i>For Class 54 Rating, Add</i>	274.24	
			<i>For Class 55 Rating, Add</i>	413.19	
			<i>For Class 56 Rating, Add</i>	550.39	
40 05 19 00-0165	EA		12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,818.23	592.17
			<i>For Class 52 Rating, Deduct</i>	-211.31	
			<i>For Class 54 Rating, Add</i>	298.92	
			<i>For Class 55 Rating, Add</i>	449.92	
			<i>For Class 56 Rating, Add</i>	599.00	
40 05 19 00-0166	EA		12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,988.61	596.36
			<i>For Class 52 Rating, Deduct</i>	-229.35	
			<i>For Class 54 Rating, Add</i>	323.60	
			<i>For Class 55 Rating, Add</i>	486.65	
			<i>For Class 56 Rating, Add</i>	647.61	
40 05 19 00-0167	EA		12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,159.00	600.56
			<i>For Class 52 Rating, Deduct</i>	-247.40	
			<i>For Class 54 Rating, Add</i>	348.28	
			<i>For Class 55 Rating, Add</i>	523.38	
			<i>For Class 56 Rating, Add</i>	696.23	
40 05 19 00-0168	EA		12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,329.37	604.76
			<i>For Class 52 Rating, Deduct</i>	-265.44	
			<i>For Class 54 Rating, Add</i>	372.95	
			<i>For Class 55 Rating, Add</i>	560.10	
			<i>For Class 56 Rating, Add</i>	744.84	
40 05 19 00-0169	EA		12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,499.75	608.96
			<i>For Class 52 Rating, Deduct</i>	-283.48	
			<i>For Class 54 Rating, Add</i>	397.63	
			<i>For Class 55 Rating, Add</i>	596.83	
			<i>For Class 56 Rating, Add</i>	793.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,670.14	613.16
<i>For Class 52 Rating, Deduct</i>	-301.52	
<i>For Class 54 Rating, Add</i>	422.31	
<i>For Class 55 Rating, Add</i>	633.56	
<i>For Class 56 Rating, Add</i>	842.07	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,840.50	617.36
<i>For Class 52 Rating, Deduct</i>	-319.56	
<i>For Class 54 Rating, Add</i>	446.99	
<i>For Class 55 Rating, Add</i>	670.29	
<i>For Class 56 Rating, Add</i>	890.68	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,010.88	621.57
<i>For Class 52 Rating, Deduct</i>	-337.60	
<i>For Class 54 Rating, Add</i>	471.67	
<i>For Class 55 Rating, Add</i>	707.02	
<i>For Class 56 Rating, Add</i>	939.30	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,181.27	625.76
<i>For Class 52 Rating, Deduct</i>	-355.65	
<i>For Class 54 Rating, Add</i>	496.35	
<i>For Class 55 Rating, Add</i>	743.75	
<i>For Class 56 Rating, Add</i>	987.91	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,351.64	629.96
<i>For Class 52 Rating, Deduct</i>	-373.69	
<i>For Class 54 Rating, Add</i>	521.03	
<i>For Class 55 Rating, Add</i>	780.47	
<i>For Class 56 Rating, Add</i>	1,036.52	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,522.02	634.16
<i>For Class 52 Rating, Deduct</i>	-391.73	
<i>For Class 54 Rating, Add</i>	545.71	
<i>For Class 55 Rating, Add</i>	817.20	
<i>For Class 56 Rating, Add</i>	1,085.14	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,692.40	638.36
<i>For Class 52 Rating, Deduct</i>	-409.77	
<i>For Class 54 Rating, Add</i>	570.39	
<i>For Class 55 Rating, Add</i>	853.93	
<i>For Class 56 Rating, Add</i>	1,133.75	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,862.78	642.56
<i>For Class 52 Rating, Deduct</i>	-427.81	
<i>For Class 54 Rating, Add</i>	595.06	
<i>For Class 55 Rating, Add</i>	890.66	
<i>For Class 56 Rating, Add</i>	1,182.37	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,033.16	646.76
<i>For Class 52 Rating, Deduct</i>	-445.86	
<i>For Class 54 Rating, Add</i>	619.74	
<i>For Class 55 Rating, Add</i>	927.39	
<i>For Class 56 Rating, Add</i>	1,230.98	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,203.54	650.96
<i>For Class 52 Rating, Deduct</i>	-463.90	
<i>For Class 54 Rating, Add</i>	644.42	
<i>For Class 55 Rating, Add</i>	964.12	
<i>For Class 56 Rating, Add</i>	1,279.59	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,373.92	655.16
<i>For Class 52 Rating, Deduct</i>	-481.94	
<i>For Class 54 Rating, Add</i>	669.10	
<i>For Class 55 Rating, Add</i>	1,000.84	
<i>For Class 56 Rating, Add</i>	1,328.21	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,544.30	659.35
<i>For Class 52 Rating, Deduct</i>	-499.98	
<i>For Class 54 Rating, Add</i>	693.78	
<i>For Class 55 Rating, Add</i>	1,037.57	
<i>For Class 56 Rating, Add</i>	1,376.82	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,714.68	663.56
<i>For Class 52 Rating, Deduct</i>	-518.02	
<i>For Class 54 Rating, Add</i>	718.46	
<i>For Class 55 Rating, Add</i>	1,074.30	
<i>For Class 56 Rating, Add</i>	1,425.43	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,885.06	667.76
<i>For Class 52 Rating, Deduct</i>	-536.06	
<i>For Class 54 Rating, Add</i>	743.14	
<i>For Class 55 Rating, Add</i>	1,111.03	
<i>For Class 56 Rating, Add</i>	1,474.05	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,055.45	671.96
<i>For Class 52 Rating, Deduct</i>	-554.11	
<i>For Class 54 Rating, Add</i>	767.82	
<i>For Class 55 Rating, Add</i>	1,147.76	
<i>For Class 56 Rating, Add</i>	1,522.66	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,225.82	676.16
<i>For Class 52 Rating, Deduct</i>	-572.15	
<i>For Class 54 Rating, Add</i>	792.49	
<i>For Class 55 Rating, Add</i>	1,184.49	
<i>For Class 56 Rating, Add</i>	1,571.28	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,396.20	680.36
<i>For Class 52 Rating, Deduct</i>	-590.19	
<i>For Class 54 Rating, Add</i>	817.17	
<i>For Class 55 Rating, Add</i>	1,221.22	
<i>For Class 56 Rating, Add</i>	1,619.89	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA		12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,566.58	684.56
			<i>For Class 52 Rating, Deduct</i>	-608.23	
			<i>For Class 54 Rating, Add</i>	841.85	
			<i>For Class 55 Rating, Add</i>	1,257.94	
			<i>For Class 56 Rating, Add</i>	1,668.50	
40 05 19 00-0188	EA		12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,736.96	688.75
			<i>For Class 52 Rating, Deduct</i>	-626.27	
			<i>For Class 54 Rating, Add</i>	866.53	
			<i>For Class 55 Rating, Add</i>	1,294.67	
			<i>For Class 56 Rating, Add</i>	1,717.12	
40 05 19 00-0189	EA		12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,907.34	692.96
			<i>For Class 52 Rating, Deduct</i>	-644.32	
			<i>For Class 54 Rating, Add</i>	891.21	
			<i>For Class 55 Rating, Add</i>	1,331.40	
			<i>For Class 56 Rating, Add</i>	1,765.73	
40 05 19 00-0190	EA		12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,077.72	697.15
			<i>For Class 52 Rating, Deduct</i>	-662.36	
			<i>For Class 54 Rating, Add</i>	915.89	
			<i>For Class 55 Rating, Add</i>	1,368.13	
			<i>For Class 56 Rating, Add</i>	1,814.35	
40 05 19 00-0191	EA		12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,248.10	701.36
			<i>For Class 52 Rating, Deduct</i>	-680.40	
			<i>For Class 54 Rating, Add</i>	940.57	
			<i>For Class 55 Rating, Add</i>	1,404.86	
			<i>For Class 56 Rating, Add</i>	1,862.96	
40 05 19 00-0192	EA		12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,418.48	705.55
			<i>For Class 52 Rating, Deduct</i>	-698.44	
			<i>For Class 54 Rating, Add</i>	965.25	
			<i>For Class 55 Rating, Add</i>	1,441.59	
			<i>For Class 56 Rating, Add</i>	1,911.58	
40 05 19 00-0193	EA		12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,588.86	709.76
			<i>For Class 52 Rating, Deduct</i>	-716.48	
			<i>For Class 54 Rating, Add</i>	989.93	
			<i>For Class 55 Rating, Add</i>	1,478.31	
			<i>For Class 56 Rating, Add</i>	1,960.19	
40 05 19 00-0194	EA		12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,759.24	713.96
			<i>For Class 52 Rating, Deduct</i>	-734.52	
			<i>For Class 54 Rating, Add</i>	1,014.60	
			<i>For Class 55 Rating, Add</i>	1,515.04	
			<i>For Class 56 Rating, Add</i>	2,008.80	
40 05 19 00-0195	EA		12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,929.62	718.15
			<i>For Class 52 Rating, Deduct</i>	-752.57	
			<i>For Class 54 Rating, Add</i>	1,039.28	
			<i>For Class 55 Rating, Add</i>	1,551.77	
			<i>For Class 56 Rating, Add</i>	2,057.42	
40 05 19 00-0196	EA		12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,100.00	722.36
			<i>For Class 52 Rating, Deduct</i>	-770.61	
			<i>For Class 54 Rating, Add</i>	1,063.96	
			<i>For Class 55 Rating, Add</i>	1,588.50	
			<i>For Class 56 Rating, Add</i>	2,106.03	
40 05 19 00-0197	EA		12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,270.38	726.55
			<i>For Class 52 Rating, Deduct</i>	-788.65	
			<i>For Class 54 Rating, Add</i>	1,088.64	
			<i>For Class 55 Rating, Add</i>	1,625.23	
			<i>For Class 56 Rating, Add</i>	2,154.64	
40 05 19 00-0198	EA		12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,440.76	730.76
			<i>For Class 52 Rating, Deduct</i>	-806.69	
			<i>For Class 54 Rating, Add</i>	1,113.32	
			<i>For Class 55 Rating, Add</i>	1,661.96	
			<i>For Class 56 Rating, Add</i>	2,203.26	
40 05 19 00-0199	EA		12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,611.14	734.95
			<i>For Class 52 Rating, Deduct</i>	-824.73	
			<i>For Class 54 Rating, Add</i>	1,138.00	
			<i>For Class 55 Rating, Add</i>	1,698.68	
			<i>For Class 56 Rating, Add</i>	2,251.87	
40 05 19 00-0200	EA		12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,781.52	739.16
			<i>For Class 52 Rating, Deduct</i>	-842.77	
			<i>For Class 54 Rating, Add</i>	1,162.68	
			<i>For Class 55 Rating, Add</i>	1,735.41	
			<i>For Class 56 Rating, Add</i>	2,300.49	
40 05 19 00-0201	EA		12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,951.89	743.35
			<i>For Class 52 Rating, Deduct</i>	-860.82	
			<i>For Class 54 Rating, Add</i>	1,187.36	
			<i>For Class 55 Rating, Add</i>	1,772.14	
			<i>For Class 56 Rating, Add</i>	2,349.10	
40 05 19 00-0202	EA		12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,122.28	747.55
			<i>For Class 52 Rating, Deduct</i>	-878.86	
			<i>For Class 54 Rating, Add</i>	1,212.03	
			<i>For Class 55 Rating, Add</i>	1,808.87	
			<i>For Class 56 Rating, Add</i>	2,397.71	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,529.27	705.55
<i>For Class 52 Rating, Deduct</i>	-270.63	
<i>For Class 54 Rating, Add</i>	381.87	
<i>For Class 55 Rating, Add</i>	574.29	
<i>For Class 56 Rating, Add</i>	764.26	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,735.60	709.76
<i>For Class 52 Rating, Deduct</i>	-292.62	
<i>For Class 54 Rating, Add</i>	411.94	
<i>For Class 55 Rating, Add</i>	619.04	
<i>For Class 56 Rating, Add</i>	823.48	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,941.93	713.96
<i>For Class 52 Rating, Deduct</i>	-314.62	
<i>For Class 54 Rating, Add</i>	442.01	
<i>For Class 55 Rating, Add</i>	663.78	
<i>For Class 56 Rating, Add</i>	882.70	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,148.25	718.15
<i>For Class 52 Rating, Deduct</i>	-336.62	
<i>For Class 54 Rating, Add</i>	472.08	
<i>For Class 55 Rating, Add</i>	708.53	
<i>For Class 56 Rating, Add</i>	941.91	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,354.59	722.36
<i>For Class 52 Rating, Deduct</i>	-358.61	
<i>For Class 54 Rating, Add</i>	502.15	
<i>For Class 55 Rating, Add</i>	753.27	
<i>For Class 56 Rating, Add</i>	1,001.13	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,560.91	726.55
<i>For Class 52 Rating, Deduct</i>	-380.61	
<i>For Class 54 Rating, Add</i>	532.22	
<i>For Class 55 Rating, Add</i>	798.02	
<i>For Class 56 Rating, Add</i>	1,060.35	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,767.24	730.76
<i>For Class 52 Rating, Deduct</i>	-402.60	
<i>For Class 54 Rating, Add</i>	562.29	
<i>For Class 55 Rating, Add</i>	842.76	
<i>For Class 56 Rating, Add</i>	1,119.57	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,973.57	734.95
<i>For Class 52 Rating, Deduct</i>	-424.60	
<i>For Class 54 Rating, Add</i>	592.36	
<i>For Class 55 Rating, Add</i>	887.51	
<i>For Class 56 Rating, Add</i>	1,178.79	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,179.90	739.16
<i>For Class 52 Rating, Deduct</i>	-446.60	
<i>For Class 54 Rating, Add</i>	622.43	
<i>For Class 55 Rating, Add</i>	932.25	
<i>For Class 56 Rating, Add</i>	1,238.01	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,386.22	743.35
<i>For Class 52 Rating, Deduct</i>	-468.59	
<i>For Class 54 Rating, Add</i>	652.50	
<i>For Class 55 Rating, Add</i>	977.00	
<i>For Class 56 Rating, Add</i>	1,297.23	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,592.56	747.55
<i>For Class 52 Rating, Deduct</i>	-490.59	
<i>For Class 54 Rating, Add</i>	682.58	
<i>For Class 55 Rating, Add</i>	1,021.74	
<i>For Class 56 Rating, Add</i>	1,356.45	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,798.88	751.75
<i>For Class 52 Rating, Deduct</i>	-512.58	
<i>For Class 54 Rating, Add</i>	712.65	
<i>For Class 55 Rating, Add</i>	1,066.49	
<i>For Class 56 Rating, Add</i>	1,415.66	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,005.21	755.95
<i>For Class 52 Rating, Deduct</i>	-534.58	
<i>For Class 54 Rating, Add</i>	742.72	
<i>For Class 55 Rating, Add</i>	1,111.23	
<i>For Class 56 Rating, Add</i>	1,474.88	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,211.54	760.16
<i>For Class 52 Rating, Deduct</i>	-556.58	
<i>For Class 54 Rating, Add</i>	772.79	
<i>For Class 55 Rating, Add</i>	1,155.98	
<i>For Class 56 Rating, Add</i>	1,534.10	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,417.87	764.35
<i>For Class 52 Rating, Deduct</i>	-578.57	
<i>For Class 54 Rating, Add</i>	802.86	
<i>For Class 55 Rating, Add</i>	1,200.72	
<i>For Class 56 Rating, Add</i>	1,593.32	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,624.20	768.56
<i>For Class 52 Rating, Deduct</i>	-600.57	
<i>For Class 54 Rating, Add</i>	832.93	
<i>For Class 55 Rating, Add</i>	1,245.47	
<i>For Class 56 Rating, Add</i>	1,652.54	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,830.53	772.75
<i>For Class 52 Rating, Deduct</i>	-622.57	
<i>For Class 54 Rating, Add</i>	863.00	
<i>For Class 55 Rating, Add</i>	1,290.21	
<i>For Class 56 Rating, Add</i>	1,711.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA		14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,036.85	776.95
			<i>For Class 52 Rating, Deduct</i>	-644.56	
			<i>For Class 54 Rating, Add</i>	893.07	
			<i>For Class 55 Rating, Add</i>	1,334.95	
			<i>For Class 56 Rating, Add</i>	1,770.98	
40 05 19 00-0222	EA		14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,243.19	781.15
			<i>For Class 52 Rating, Deduct</i>	-666.56	
			<i>For Class 54 Rating, Add</i>	923.15	
			<i>For Class 55 Rating, Add</i>	1,379.70	
			<i>For Class 56 Rating, Add</i>	1,830.20	
40 05 19 00-0223	EA		14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,449.51	785.35
			<i>For Class 52 Rating, Deduct</i>	-688.55	
			<i>For Class 54 Rating, Add</i>	953.22	
			<i>For Class 55 Rating, Add</i>	1,424.44	
			<i>For Class 56 Rating, Add</i>	1,869.41	
40 05 19 00-0224	EA		14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,655.84	789.55
			<i>For Class 52 Rating, Deduct</i>	-710.55	
			<i>For Class 54 Rating, Add</i>	983.29	
			<i>For Class 55 Rating, Add</i>	1,469.19	
			<i>For Class 56 Rating, Add</i>	1,948.63	
40 05 19 00-0225	EA		14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,862.17	793.75
			<i>For Class 52 Rating, Deduct</i>	-732.55	
			<i>For Class 54 Rating, Add</i>	1,013.36	
			<i>For Class 55 Rating, Add</i>	1,513.94	
			<i>For Class 56 Rating, Add</i>	2,007.85	
40 05 19 00-0226	EA		14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,068.49	797.95
			<i>For Class 52 Rating, Deduct</i>	-754.54	
			<i>For Class 54 Rating, Add</i>	1,043.43	
			<i>For Class 55 Rating, Add</i>	1,558.68	
			<i>For Class 56 Rating, Add</i>	2,067.07	
40 05 19 00-0227	EA		14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,274.82	802.15
			<i>For Class 52 Rating, Deduct</i>	-776.54	
			<i>For Class 54 Rating, Add</i>	1,073.50	
			<i>For Class 55 Rating, Add</i>	1,603.43	
			<i>For Class 56 Rating, Add</i>	2,126.29	
40 05 19 00-0228	EA		14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,481.15	806.34
			<i>For Class 52 Rating, Deduct</i>	-798.54	
			<i>For Class 54 Rating, Add</i>	1,103.57	
			<i>For Class 55 Rating, Add</i>	1,648.17	
			<i>For Class 56 Rating, Add</i>	2,185.51	
40 05 19 00-0229	EA		14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,687.48	810.55
			<i>For Class 52 Rating, Deduct</i>	-820.53	
			<i>For Class 54 Rating, Add</i>	1,133.64	
			<i>For Class 55 Rating, Add</i>	1,692.92	
			<i>For Class 56 Rating, Add</i>	2,244.73	
40 05 19 00-0230	EA		14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,893.80	814.75
			<i>For Class 52 Rating, Deduct</i>	-842.53	
			<i>For Class 54 Rating, Add</i>	1,163.71	
			<i>For Class 55 Rating, Add</i>	1,737.66	
			<i>For Class 56 Rating, Add</i>	2,303.95	
40 05 19 00-0231	EA		14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,100.14	818.95
			<i>For Class 52 Rating, Deduct</i>	-864.52	
			<i>For Class 54 Rating, Add</i>	1,193.79	
			<i>For Class 55 Rating, Add</i>	1,782.41	
			<i>For Class 56 Rating, Add</i>	2,363.17	
40 05 19 00-0232	EA		14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,306.46	823.15
			<i>For Class 52 Rating, Deduct</i>	-886.52	
			<i>For Class 54 Rating, Add</i>	1,223.86	
			<i>For Class 55 Rating, Add</i>	1,827.15	
			<i>For Class 56 Rating, Add</i>	2,422.38	
40 05 19 00-0233	EA		14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,512.79	827.35
			<i>For Class 52 Rating, Deduct</i>	-908.52	
			<i>For Class 54 Rating, Add</i>	1,253.93	
			<i>For Class 55 Rating, Add</i>	1,871.90	
			<i>For Class 56 Rating, Add</i>	2,481.60	
40 05 19 00-0234	EA		14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,719.12	831.55
			<i>For Class 52 Rating, Deduct</i>	-930.51	
			<i>For Class 54 Rating, Add</i>	1,284.00	
			<i>For Class 55 Rating, Add</i>	1,916.64	
			<i>For Class 56 Rating, Add</i>	2,540.82	
40 05 19 00-0235	EA		14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,925.45	835.74
			<i>For Class 52 Rating, Deduct</i>	-952.51	
			<i>For Class 54 Rating, Add</i>	1,314.07	
			<i>For Class 55 Rating, Add</i>	1,961.39	
			<i>For Class 56 Rating, Add</i>	2,600.04	
40 05 19 00-0236	EA		14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,131.77	839.95
			<i>For Class 52 Rating, Deduct</i>	-974.50	
			<i>For Class 54 Rating, Add</i>	1,344.14	
			<i>For Class 55 Rating, Add</i>	2,006.13	
			<i>For Class 56 Rating, Add</i>	2,659.26	
40 05 19 00-0237	EA		14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,338.11	844.14
			<i>For Class 52 Rating, Deduct</i>	-996.50	
			<i>For Class 54 Rating, Add</i>	1,374.21	
			<i>For Class 55 Rating, Add</i>	2,050.88	
			<i>For Class 56 Rating, Add</i>	2,718.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,544.43	848.35
<i>For Class 52 Rating, Deduct</i>	-1,018.50	
<i>For Class 54 Rating, Add</i>	1,404.28	
<i>For Class 55 Rating, Add</i>	2,095.62	
<i>For Class 56 Rating, Add</i>	2,777.70	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,750.76	852.54
<i>For Class 52 Rating, Deduct</i>	-1,040.49	
<i>For Class 54 Rating, Add</i>	1,434.36	
<i>For Class 55 Rating, Add</i>	2,140.37	
<i>For Class 56 Rating, Add</i>	2,836.92	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,957.09	856.75
<i>For Class 52 Rating, Deduct</i>	-1,062.49	
<i>For Class 54 Rating, Add</i>	1,464.43	
<i>For Class 55 Rating, Add</i>	2,185.11	
<i>For Class 56 Rating, Add</i>	2,896.13	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,163.42	860.95
<i>For Class 52 Rating, Deduct</i>	-1,084.49	
<i>For Class 54 Rating, Add</i>	1,494.50	
<i>For Class 55 Rating, Add</i>	2,229.86	
<i>For Class 56 Rating, Add</i>	2,955.35	
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,138.09	806.34
<i>For Class 52 Rating, Deduct</i>	-320.80	
<i>For Class 54 Rating, Add</i>	452.11	
<i>For Class 55 Rating, Add</i>	679.67	
<i>For Class 56 Rating, Add</i>	904.31	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,378.11	810.55
<i>For Class 52 Rating, Deduct</i>	-346.50	
<i>For Class 54 Rating, Add</i>	487.24	
<i>For Class 55 Rating, Add</i>	731.93	
<i>For Class 56 Rating, Add</i>	973.46	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,618.14	814.75
<i>For Class 52 Rating, Deduct</i>	-372.20	
<i>For Class 54 Rating, Add</i>	522.37	
<i>For Class 55 Rating, Add</i>	784.19	
<i>For Class 56 Rating, Add</i>	1,042.63	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,858.18	818.95
<i>For Class 52 Rating, Deduct</i>	-397.91	
<i>For Class 54 Rating, Add</i>	557.49	
<i>For Class 55 Rating, Add</i>	836.45	
<i>For Class 56 Rating, Add</i>	1,111.79	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,098.21	823.15
<i>For Class 52 Rating, Deduct</i>	-423.61	
<i>For Class 54 Rating, Add</i>	592.62	
<i>For Class 55 Rating, Add</i>	888.71	
<i>For Class 56 Rating, Add</i>	1,180.95	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,338.23	827.35
<i>For Class 52 Rating, Deduct</i>	-449.31	
<i>For Class 54 Rating, Add</i>	627.74	
<i>For Class 55 Rating, Add</i>	940.97	
<i>For Class 56 Rating, Add</i>	1,250.11	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,578.27	831.55
<i>For Class 52 Rating, Deduct</i>	-475.02	
<i>For Class 54 Rating, Add</i>	662.87	
<i>For Class 55 Rating, Add</i>	993.23	
<i>For Class 56 Rating, Add</i>	1,319.27	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,818.30	835.74
<i>For Class 52 Rating, Deduct</i>	-500.72	
<i>For Class 54 Rating, Add</i>	698.00	
<i>For Class 55 Rating, Add</i>	1,045.49	
<i>For Class 56 Rating, Add</i>	1,388.43	
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,058.32	839.95
<i>For Class 52 Rating, Deduct</i>	-526.42	
<i>For Class 54 Rating, Add</i>	733.12	
<i>For Class 55 Rating, Add</i>	1,097.75	
<i>For Class 56 Rating, Add</i>	1,457.59	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,298.36	844.14
<i>For Class 52 Rating, Deduct</i>	-552.13	
<i>For Class 54 Rating, Add</i>	768.25	
<i>For Class 55 Rating, Add</i>	1,150.01	
<i>For Class 56 Rating, Add</i>	1,526.75	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,538.39	848.35
<i>For Class 52 Rating, Deduct</i>	-577.83	
<i>For Class 54 Rating, Add</i>	803.38	
<i>For Class 55 Rating, Add</i>	1,202.27	
<i>For Class 56 Rating, Add</i>	1,595.91	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,778.42	852.54
<i>For Class 52 Rating, Deduct</i>	-603.54	
<i>For Class 54 Rating, Add</i>	838.50	
<i>For Class 55 Rating, Add</i>	1,254.53	
<i>For Class 56 Rating, Add</i>	1,665.08	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA		16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,018.45	856.75
			<i>For Class 52 Rating, Deduct</i>	-629.24	
			<i>For Class 54 Rating, Add</i>	873.63	
			<i>For Class 55 Rating, Add</i>	1,306.79	
			<i>For Class 56 Rating, Add</i>	1,734.23	
40 05 19 00-0256	EA		16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,258.48	860.95
			<i>For Class 52 Rating, Deduct</i>	-654.94	
			<i>For Class 54 Rating, Add</i>	908.76	
			<i>For Class 55 Rating, Add</i>	1,359.05	
			<i>For Class 56 Rating, Add</i>	1,803.40	
40 05 19 00-0257	EA		16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,498.52	865.14
			<i>For Class 52 Rating, Deduct</i>	-680.65	
			<i>For Class 54 Rating, Add</i>	943.88	
			<i>For Class 55 Rating, Add</i>	1,411.31	
			<i>For Class 56 Rating, Add</i>	1,872.56	
40 05 19 00-0258	EA		16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,738.54	869.35
			<i>For Class 52 Rating, Deduct</i>	-706.35	
			<i>For Class 54 Rating, Add</i>	979.01	
			<i>For Class 55 Rating, Add</i>	1,463.57	
			<i>For Class 56 Rating, Add</i>	1,941.72	
40 05 19 00-0259	EA		16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,978.57	873.54
			<i>For Class 52 Rating, Deduct</i>	-732.05	
			<i>For Class 54 Rating, Add</i>	1,014.14	
			<i>For Class 55 Rating, Add</i>	1,515.83	
			<i>For Class 56 Rating, Add</i>	2,010.88	
40 05 19 00-0260	EA		16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,218.61	877.75
			<i>For Class 52 Rating, Deduct</i>	-757.76	
			<i>For Class 54 Rating, Add</i>	1,049.26	
			<i>For Class 55 Rating, Add</i>	1,568.10	
			<i>For Class 56 Rating, Add</i>	2,080.04	
40 05 19 00-0261	EA		16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,458.64	881.94
			<i>For Class 52 Rating, Deduct</i>	-783.46	
			<i>For Class 54 Rating, Add</i>	1,084.39	
			<i>For Class 55 Rating, Add</i>	1,620.36	
			<i>For Class 56 Rating, Add</i>	2,149.20	
40 05 19 00-0262	EA		16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,698.66	886.15
			<i>For Class 52 Rating, Deduct</i>	-809.16	
			<i>For Class 54 Rating, Add</i>	1,119.51	
			<i>For Class 55 Rating, Add</i>	1,672.62	
			<i>For Class 56 Rating, Add</i>	2,218.36	
40 05 19 00-0263	EA		16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,938.70	890.34
			<i>For Class 52 Rating, Deduct</i>	-834.87	
			<i>For Class 54 Rating, Add</i>	1,154.64	
			<i>For Class 55 Rating, Add</i>	1,724.88	
			<i>For Class 56 Rating, Add</i>	2,287.52	
40 05 19 00-0264	EA		16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,178.73	894.54
			<i>For Class 52 Rating, Deduct</i>	-860.57	
			<i>For Class 54 Rating, Add</i>	1,189.77	
			<i>For Class 55 Rating, Add</i>	1,777.14	
			<i>For Class 56 Rating, Add</i>	2,356.68	
40 05 19 00-0265	EA		16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,418.75	898.74
			<i>For Class 52 Rating, Deduct</i>	-886.27	
			<i>For Class 54 Rating, Add</i>	1,224.89	
			<i>For Class 55 Rating, Add</i>	1,829.40	
			<i>For Class 56 Rating, Add</i>	2,425.84	
40 05 19 00-0266	EA		16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,658.79	902.94
			<i>For Class 52 Rating, Deduct</i>	-911.98	
			<i>For Class 54 Rating, Add</i>	1,260.02	
			<i>For Class 55 Rating, Add</i>	1,881.66	
			<i>For Class 56 Rating, Add</i>	2,495.01	
40 05 19 00-0267	EA		16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,898.82	907.15
			<i>For Class 52 Rating, Deduct</i>	-937.68	
			<i>For Class 54 Rating, Add</i>	1,295.15	
			<i>For Class 55 Rating, Add</i>	1,933.92	
			<i>For Class 56 Rating, Add</i>	2,564.17	
40 05 19 00-0268	EA		16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,138.85	911.34
			<i>For Class 52 Rating, Deduct</i>	-963.38	
			<i>For Class 54 Rating, Add</i>	1,330.27	
			<i>For Class 55 Rating, Add</i>	1,986.18	
			<i>For Class 56 Rating, Add</i>	2,633.33	
40 05 19 00-0269	EA		16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,378.88	915.55
			<i>For Class 52 Rating, Deduct</i>	-989.09	
			<i>For Class 54 Rating, Add</i>	1,365.40	
			<i>For Class 55 Rating, Add</i>	2,038.44	
			<i>For Class 56 Rating, Add</i>	2,702.49	
40 05 19 00-0270	EA		16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,618.91	919.74
			<i>For Class 52 Rating, Deduct</i>	-1,014.79	
			<i>For Class 54 Rating, Add</i>	1,400.53	
			<i>For Class 55 Rating, Add</i>	2,090.70	
			<i>For Class 56 Rating, Add</i>	2,771.65	
40 05 19 00-0271	EA		16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,858.94	923.94
			<i>For Class 52 Rating, Deduct</i>	-1,040.49	
			<i>For Class 54 Rating, Add</i>	1,435.65	
			<i>For Class 55 Rating, Add</i>	2,142.96	
			<i>For Class 56 Rating, Add</i>	2,840.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,098.98	928.14
<i>For Class 52 Rating, Deduct</i>	-1,066.20	
<i>For Class 54 Rating, Add</i>	1,470.78	
<i>For Class 55 Rating, Add</i>	2,195.22	
<i>For Class 56 Rating, Add</i>	2,909.97	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,339.00	932.34
<i>For Class 52 Rating, Deduct</i>	-1,091.90	
<i>For Class 54 Rating, Add</i>	1,505.91	
<i>For Class 55 Rating, Add</i>	2,247.48	
<i>For Class 56 Rating, Add</i>	2,979.13	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,579.03	936.54
<i>For Class 52 Rating, Deduct</i>	-1,117.60	
<i>For Class 54 Rating, Add</i>	1,541.03	
<i>For Class 55 Rating, Add</i>	2,299.74	
<i>For Class 56 Rating, Add</i>	3,048.29	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,819.07	940.74
<i>For Class 52 Rating, Deduct</i>	-1,143.31	
<i>For Class 54 Rating, Add</i>	1,576.16	
<i>For Class 55 Rating, Add</i>	2,352.00	
<i>For Class 56 Rating, Add</i>	3,117.45	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,059.09	944.94
<i>For Class 52 Rating, Deduct</i>	-1,169.01	
<i>For Class 54 Rating, Add</i>	1,611.28	
<i>For Class 55 Rating, Add</i>	2,404.26	
<i>For Class 56 Rating, Add</i>	3,186.61	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,299.12	949.14
<i>For Class 52 Rating, Deduct</i>	-1,194.71	
<i>For Class 54 Rating, Add</i>	1,646.41	
<i>For Class 55 Rating, Add</i>	2,456.52	
<i>For Class 56 Rating, Add</i>	3,255.78	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,539.16	953.34
<i>For Class 52 Rating, Deduct</i>	-1,220.42	
<i>For Class 54 Rating, Add</i>	1,681.54	
<i>For Class 55 Rating, Add</i>	2,508.79	
<i>For Class 56 Rating, Add</i>	3,324.94	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,779.19	957.54
<i>For Class 52 Rating, Deduct</i>	-1,246.12	
<i>For Class 54 Rating, Add</i>	1,716.67	
<i>For Class 55 Rating, Add</i>	2,561.05	
<i>For Class 56 Rating, Add</i>	3,394.10	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,019.22	961.74
<i>For Class 52 Rating, Deduct</i>	-1,271.82	
<i>For Class 54 Rating, Add</i>	1,751.79	
<i>For Class 55 Rating, Add</i>	2,613.31	
<i>For Class 56 Rating, Add</i>	3,463.26	
40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,814.60	908.82
<i>For Class 52 Rating, Deduct</i>	-378.14	
<i>For Class 54 Rating, Add</i>	532.16	
<i>For Class 55 Rating, Add</i>	799.63	
<i>For Class 56 Rating, Add</i>	1,063.66	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,090.58	913.03
<i>For Class 52 Rating, Deduct</i>	-407.79	
<i>For Class 54 Rating, Add</i>	572.68	
<i>For Class 55 Rating, Add</i>	859.91	
<i>For Class 56 Rating, Add</i>	1,143.43	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,366.57	917.22
<i>For Class 52 Rating, Deduct</i>	-437.45	
<i>For Class 54 Rating, Add</i>	613.20	
<i>For Class 55 Rating, Add</i>	920.19	
<i>For Class 56 Rating, Add</i>	1,223.20	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,642.54	921.43
<i>For Class 52 Rating, Deduct</i>	-467.11	
<i>For Class 54 Rating, Add</i>	653.72	
<i>For Class 55 Rating, Add</i>	980.46	
<i>For Class 56 Rating, Add</i>	1,302.96	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,918.53	925.62
<i>For Class 52 Rating, Deduct</i>	-496.77	
<i>For Class 54 Rating, Add</i>	694.24	
<i>For Class 55 Rating, Add</i>	1,040.74	
<i>For Class 56 Rating, Add</i>	1,382.73	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,194.50	929.82
<i>For Class 52 Rating, Deduct</i>	-526.42	
<i>For Class 54 Rating, Add</i>	734.76	
<i>For Class 55 Rating, Add</i>	1,101.02	
<i>For Class 56 Rating, Add</i>	1,462.49	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,470.48	934.02
<i>For Class 52 Rating, Deduct</i>	-556.08	
<i>For Class 54 Rating, Add</i>	775.28	
<i>For Class 55 Rating, Add</i>	1,161.30	
<i>For Class 56 Rating, Add</i>	1,542.26	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA		18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,746.47	938.22
			<i>For Class 52 Rating, Deduct</i>	-585.74	
			<i>For Class 54 Rating, Add</i>	815.80	
			<i>For Class 55 Rating, Add</i>	1,221.57	
			<i>For Class 56 Rating, Add</i>	1,622.03	
40 05 19 00-0290	EA		18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,022.44	942.42
			<i>For Class 52 Rating, Deduct</i>	-615.40	
			<i>For Class 54 Rating, Add</i>	856.31	
			<i>For Class 55 Rating, Add</i>	1,281.85	
			<i>For Class 56 Rating, Add</i>	1,701.79	
40 05 19 00-0291	EA		18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,298.42	946.62
			<i>For Class 52 Rating, Deduct</i>	-645.06	
			<i>For Class 54 Rating, Add</i>	896.83	
			<i>For Class 55 Rating, Add</i>	1,342.13	
			<i>For Class 56 Rating, Add</i>	1,781.56	
40 05 19 00-0292	EA		18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,574.40	950.82
			<i>For Class 52 Rating, Deduct</i>	-674.71	
			<i>For Class 54 Rating, Add</i>	937.35	
			<i>For Class 55 Rating, Add</i>	1,402.40	
			<i>For Class 56 Rating, Add</i>	1,861.32	
40 05 19 00-0293	EA		18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,850.38	955.02
			<i>For Class 52 Rating, Deduct</i>	-704.37	
			<i>For Class 54 Rating, Add</i>	977.87	
			<i>For Class 55 Rating, Add</i>	1,462.68	
			<i>For Class 56 Rating, Add</i>	1,941.09	
40 05 19 00-0294	EA		18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,126.36	959.22
			<i>For Class 52 Rating, Deduct</i>	-734.03	
			<i>For Class 54 Rating, Add</i>	1,018.39	
			<i>For Class 55 Rating, Add</i>	1,522.96	
			<i>For Class 56 Rating, Add</i>	2,020.86	
40 05 19 00-0295	EA		18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,402.34	963.42
			<i>For Class 52 Rating, Deduct</i>	-763.69	
			<i>For Class 54 Rating, Add</i>	1,058.91	
			<i>For Class 55 Rating, Add</i>	1,583.24	
			<i>For Class 56 Rating, Add</i>	2,100.62	
40 05 19 00-0296	EA		18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,678.32	967.62
			<i>For Class 52 Rating, Deduct</i>	-793.35	
			<i>For Class 54 Rating, Add</i>	1,099.43	
			<i>For Class 55 Rating, Add</i>	1,643.51	
			<i>For Class 56 Rating, Add</i>	2,180.39	
40 05 19 00-0297	EA		18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,954.29	971.82
			<i>For Class 52 Rating, Deduct</i>	-823.00	
			<i>For Class 54 Rating, Add</i>	1,139.95	
			<i>For Class 55 Rating, Add</i>	1,703.79	
			<i>For Class 56 Rating, Add</i>	2,260.15	
40 05 19 00-0298	EA		18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,230.28	976.02
			<i>For Class 52 Rating, Deduct</i>	-852.66	
			<i>For Class 54 Rating, Add</i>	1,180.46	
			<i>For Class 55 Rating, Add</i>	1,764.07	
			<i>For Class 56 Rating, Add</i>	2,339.92	
40 05 19 00-0299	EA		18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,506.26	980.22
			<i>For Class 52 Rating, Deduct</i>	-882.32	
			<i>For Class 54 Rating, Add</i>	1,220.98	
			<i>For Class 55 Rating, Add</i>	1,824.35	
			<i>For Class 56 Rating, Add</i>	2,419.69	
40 05 19 00-0300	EA		18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,782.23	984.42
			<i>For Class 52 Rating, Deduct</i>	-911.98	
			<i>For Class 54 Rating, Add</i>	1,261.50	
			<i>For Class 55 Rating, Add</i>	1,884.62	
			<i>For Class 56 Rating, Add</i>	2,499.45	
40 05 19 00-0301	EA		18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,058.22	988.61
			<i>For Class 52 Rating, Deduct</i>	-941.63	
			<i>For Class 54 Rating, Add</i>	1,302.02	
			<i>For Class 55 Rating, Add</i>	1,944.90	
			<i>For Class 56 Rating, Add</i>	2,579.22	
40 05 19 00-0302	EA		18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,334.19	992.82
			<i>For Class 52 Rating, Deduct</i>	-971.29	
			<i>For Class 54 Rating, Add</i>	1,342.54	
			<i>For Class 55 Rating, Add</i>	2,005.17	
			<i>For Class 56 Rating, Add</i>	2,658.98	
40 05 19 00-0303	EA		18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,610.17	997.01
			<i>For Class 52 Rating, Deduct</i>	-1,000.95	
			<i>For Class 54 Rating, Add</i>	1,383.06	
			<i>For Class 55 Rating, Add</i>	2,065.45	
			<i>For Class 56 Rating, Add</i>	2,738.75	
40 05 19 00-0304	EA		18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,886.16	1,001.22
			<i>For Class 52 Rating, Deduct</i>	-1,030.61	
			<i>For Class 54 Rating, Add</i>	1,423.58	
			<i>For Class 55 Rating, Add</i>	2,125.73	
			<i>For Class 56 Rating, Add</i>	2,818.51	
40 05 19 00-0305	EA		18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,162.13	1,005.41
			<i>For Class 52 Rating, Deduct</i>	-1,060.26	
			<i>For Class 54 Rating, Add</i>	1,464.10	
			<i>For Class 55 Rating, Add</i>	2,186.01	
			<i>For Class 56 Rating, Add</i>	2,898.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,438.11	1,009.62
<i>For Class 52 Rating, Deduct</i>	-1,089.92	
<i>For Class 54 Rating, Add</i>	1,504.62	
<i>For Class 55 Rating, Add</i>	2,246.28	
<i>For Class 56 Rating, Add</i>	2,978.04	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,714.09	1,013.82
<i>For Class 52 Rating, Deduct</i>	-1,119.58	
<i>For Class 54 Rating, Add</i>	1,545.13	
<i>For Class 55 Rating, Add</i>	2,306.56	
<i>For Class 56 Rating, Add</i>	3,057.81	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,990.07	1,018.01
<i>For Class 52 Rating, Deduct</i>	-1,149.24	
<i>For Class 54 Rating, Add</i>	1,585.65	
<i>For Class 55 Rating, Add</i>	2,366.84	
<i>For Class 56 Rating, Add</i>	3,137.58	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,266.05	1,022.22
<i>For Class 52 Rating, Deduct</i>	-1,178.90	
<i>For Class 54 Rating, Add</i>	1,626.17	
<i>For Class 55 Rating, Add</i>	2,427.12	
<i>For Class 56 Rating, Add</i>	3,217.34	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,542.03	1,026.41
<i>For Class 52 Rating, Deduct</i>	-1,208.55	
<i>For Class 54 Rating, Add</i>	1,666.69	
<i>For Class 55 Rating, Add</i>	2,487.39	
<i>For Class 56 Rating, Add</i>	3,297.11	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,818.01	1,030.62
<i>For Class 52 Rating, Deduct</i>	-1,238.21	
<i>For Class 54 Rating, Add</i>	1,707.21	
<i>For Class 55 Rating, Add</i>	2,547.67	
<i>For Class 56 Rating, Add</i>	3,376.87	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,093.99	1,034.81
<i>For Class 52 Rating, Deduct</i>	-1,267.87	
<i>For Class 54 Rating, Add</i>	1,747.73	
<i>For Class 55 Rating, Add</i>	2,607.95	
<i>For Class 56 Rating, Add</i>	3,456.64	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,369.96	1,039.02
<i>For Class 52 Rating, Deduct</i>	-1,297.53	
<i>For Class 54 Rating, Add</i>	1,788.25	
<i>For Class 55 Rating, Add</i>	2,668.22	
<i>For Class 56 Rating, Add</i>	3,536.40	
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,645.94	1,043.21
<i>For Class 52 Rating, Deduct</i>	-1,327.19	
<i>For Class 54 Rating, Add</i>	1,828.77	
<i>For Class 55 Rating, Add</i>	2,728.50	
<i>For Class 56 Rating, Add</i>	3,616.17	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,921.92	1,047.41
<i>For Class 52 Rating, Deduct</i>	-1,356.84	
<i>For Class 54 Rating, Add</i>	1,869.28	
<i>For Class 55 Rating, Add</i>	2,788.78	
<i>For Class 56 Rating, Add</i>	3,695.94	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,197.90	1,051.61
<i>For Class 52 Rating, Deduct</i>	-1,386.50	
<i>For Class 54 Rating, Add</i>	1,909.80	
<i>For Class 55 Rating, Add</i>	2,849.06	
<i>For Class 56 Rating, Add</i>	3,775.70	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,473.87	1,055.81
<i>For Class 52 Rating, Deduct</i>	-1,416.16	
<i>For Class 54 Rating, Add</i>	1,950.32	
<i>For Class 55 Rating, Add</i>	2,909.33	
<i>For Class 56 Rating, Add</i>	3,855.47	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,749.86	1,060.02
<i>For Class 52 Rating, Deduct</i>	-1,445.82	
<i>For Class 54 Rating, Add</i>	1,990.84	
<i>For Class 55 Rating, Add</i>	2,969.61	
<i>For Class 56 Rating, Add</i>	3,935.23	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,025.84	1,064.21
<i>For Class 52 Rating, Deduct</i>	-1,475.47	
<i>For Class 54 Rating, Add</i>	2,031.36	
<i>For Class 55 Rating, Add</i>	3,029.89	
<i>For Class 56 Rating, Add</i>	4,015.00	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,636.18	1,037.33
<i>For Class 52 Rating, Deduct</i>	-447.09	
<i>For Class 54 Rating, Add</i>	628.53	
<i>For Class 55 Rating, Add</i>	944.10	
<i>For Class 56 Rating, Add</i>	1,255.60	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,952.60	1,041.53
<i>For Class 52 Rating, Deduct</i>	-481.20	
<i>For Class 54 Rating, Add</i>	675.11	
<i>For Class 55 Rating, Add</i>	1,013.39	
<i>For Class 56 Rating, Add</i>	1,347.29	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA		20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,269.02	1,045.74
			<i>For Class 52 Rating, Deduct</i>	-515.30	
			<i>For Class 54 Rating, Add</i>	721.70	
			<i>For Class 55 Rating, Add</i>	1,082.69	
			<i>For Class 56 Rating, Add</i>	1,438.99	
40 05 19 00-0324	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,585.45	1,049.93
			<i>For Class 52 Rating, Deduct</i>	-549.41	
			<i>For Class 54 Rating, Add</i>	768.29	
			<i>For Class 55 Rating, Add</i>	1,151.98	
			<i>For Class 56 Rating, Add</i>	1,530.69	
40 05 19 00-0325	EA		20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,901.86	1,054.14
			<i>For Class 52 Rating, Deduct</i>	-583.52	
			<i>For Class 54 Rating, Add</i>	814.87	
			<i>For Class 55 Rating, Add</i>	1,221.28	
			<i>For Class 56 Rating, Add</i>	1,622.38	
40 05 19 00-0326	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,218.28	1,058.33
			<i>For Class 52 Rating, Deduct</i>	-617.62	
			<i>For Class 54 Rating, Add</i>	861.45	
			<i>For Class 55 Rating, Add</i>	1,290.57	
			<i>For Class 56 Rating, Add</i>	1,714.08	
40 05 19 00-0327	EA		20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,534.71	1,062.54
			<i>For Class 52 Rating, Deduct</i>	-651.73	
			<i>For Class 54 Rating, Add</i>	908.04	
			<i>For Class 55 Rating, Add</i>	1,359.87	
			<i>For Class 56 Rating, Add</i>	1,805.78	
40 05 19 00-0328	EA		20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,851.13	1,066.73
			<i>For Class 52 Rating, Deduct</i>	-685.84	
			<i>For Class 54 Rating, Add</i>	954.63	
			<i>For Class 55 Rating, Add</i>	1,429.17	
			<i>For Class 56 Rating, Add</i>	1,897.47	
40 05 19 00-0329	EA		20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,167.56	1,070.93
			<i>For Class 52 Rating, Deduct</i>	-719.94	
			<i>For Class 54 Rating, Add</i>	1,001.21	
			<i>For Class 55 Rating, Add</i>	1,498.46	
			<i>For Class 56 Rating, Add</i>	1,989.17	
40 05 19 00-0330	EA		20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,483.98	1,075.13
			<i>For Class 52 Rating, Deduct</i>	-754.05	
			<i>For Class 54 Rating, Add</i>	1,047.80	
			<i>For Class 55 Rating, Add</i>	1,567.76	
			<i>For Class 56 Rating, Add</i>	2,080.87	
40 05 19 00-0331	EA		20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,800.40	1,079.33
			<i>For Class 52 Rating, Deduct</i>	-788.16	
			<i>For Class 54 Rating, Add</i>	1,094.38	
			<i>For Class 55 Rating, Add</i>	1,637.05	
			<i>For Class 56 Rating, Add</i>	2,172.56	
40 05 19 00-0332	EA		20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,116.82	1,083.53
			<i>For Class 52 Rating, Deduct</i>	-822.26	
			<i>For Class 54 Rating, Add</i>	1,140.97	
			<i>For Class 55 Rating, Add</i>	1,706.35	
			<i>For Class 56 Rating, Add</i>	2,264.26	
40 05 19 00-0333	EA		20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,433.24	1,087.73
			<i>For Class 52 Rating, Deduct</i>	-856.37	
			<i>For Class 54 Rating, Add</i>	1,187.55	
			<i>For Class 55 Rating, Add</i>	1,775.64	
			<i>For Class 56 Rating, Add</i>	2,355.95	
40 05 19 00-0334	EA		20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,749.66	1,091.94
			<i>For Class 52 Rating, Deduct</i>	-890.47	
			<i>For Class 54 Rating, Add</i>	1,234.14	
			<i>For Class 55 Rating, Add</i>	1,844.94	
			<i>For Class 56 Rating, Add</i>	2,447.65	
40 05 19 00-0335	EA		20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,066.09	1,096.13
			<i>For Class 52 Rating, Deduct</i>	-924.58	
			<i>For Class 54 Rating, Add</i>	1,280.72	
			<i>For Class 55 Rating, Add</i>	1,914.24	
			<i>For Class 56 Rating, Add</i>	2,539.35	
40 05 19 00-0336	EA		20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,382.51	1,100.33
			<i>For Class 52 Rating, Deduct</i>	-958.69	
			<i>For Class 54 Rating, Add</i>	1,327.31	
			<i>For Class 55 Rating, Add</i>	1,983.53	
			<i>For Class 56 Rating, Add</i>	2,631.04	
40 05 19 00-0337	EA		20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,698.93	1,104.53
			<i>For Class 52 Rating, Deduct</i>	-992.79	
			<i>For Class 54 Rating, Add</i>	1,373.89	
			<i>For Class 55 Rating, Add</i>	2,052.83	
			<i>For Class 56 Rating, Add</i>	2,722.74	
40 05 19 00-0338	EA		20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,015.35	1,108.73
			<i>For Class 52 Rating, Deduct</i>	-1,026.90	
			<i>For Class 54 Rating, Add</i>	1,420.48	
			<i>For Class 55 Rating, Add</i>	2,122.12	
			<i>For Class 56 Rating, Add</i>	2,814.43	
40 05 19 00-0339	EA		20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,331.77	1,112.93
			<i>For Class 52 Rating, Deduct</i>	-1,061.01	
			<i>For Class 54 Rating, Add</i>	1,467.06	
			<i>For Class 55 Rating, Add</i>	2,191.42	
			<i>For Class 56 Rating, Add</i>	2,906.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,648.19	1,117.13
<i>For Class 52 Rating, Deduct</i>	-1,095.11	
<i>For Class 54 Rating, Add</i>	1,513.65	
<i>For Class 55 Rating, Add</i>	2,260.71	
<i>For Class 56 Rating, Add</i>	2,997.83	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,964.62	1,121.33
<i>For Class 52 Rating, Deduct</i>	-1,129.22	
<i>For Class 54 Rating, Add</i>	1,560.23	
<i>For Class 55 Rating, Add</i>	2,330.01	
<i>For Class 56 Rating, Add</i>	3,089.52	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,281.04	1,125.53
<i>For Class 52 Rating, Deduct</i>	-1,163.33	
<i>For Class 54 Rating, Add</i>	1,606.82	
<i>For Class 55 Rating, Add</i>	2,399.31	
<i>For Class 56 Rating, Add</i>	3,181.22	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,597.46	1,129.72
<i>For Class 52 Rating, Deduct</i>	-1,197.43	
<i>For Class 54 Rating, Add</i>	1,653.40	
<i>For Class 55 Rating, Add</i>	2,468.60	
<i>For Class 56 Rating, Add</i>	3,272.92	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,913.88	1,133.93
<i>For Class 52 Rating, Deduct</i>	-1,231.54	
<i>For Class 54 Rating, Add</i>	1,699.99	
<i>For Class 55 Rating, Add</i>	2,537.90	
<i>For Class 56 Rating, Add</i>	3,364.61	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,230.30	1,138.12
<i>For Class 52 Rating, Deduct</i>	-1,265.64	
<i>For Class 54 Rating, Add</i>	1,746.57	
<i>For Class 55 Rating, Add</i>	2,607.19	
<i>For Class 56 Rating, Add</i>	3,456.31	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,546.72	1,142.33
<i>For Class 52 Rating, Deduct</i>	-1,299.75	
<i>For Class 54 Rating, Add</i>	1,793.16	
<i>For Class 55 Rating, Add</i>	2,676.49	
<i>For Class 56 Rating, Add</i>	3,548.01	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,863.14	1,146.53
<i>For Class 52 Rating, Deduct</i>	-1,333.86	
<i>For Class 54 Rating, Add</i>	1,839.74	
<i>For Class 55 Rating, Add</i>	2,745.79	
<i>For Class 56 Rating, Add</i>	3,639.70	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,179.56	1,150.73
<i>For Class 52 Rating, Deduct</i>	-1,367.96	
<i>For Class 54 Rating, Add</i>	1,886.33	
<i>For Class 55 Rating, Add</i>	2,815.08	
<i>For Class 56 Rating, Add</i>	3,731.40	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,495.98	1,154.93
<i>For Class 52 Rating, Deduct</i>	-1,402.07	
<i>For Class 54 Rating, Add</i>	1,932.91	
<i>For Class 55 Rating, Add</i>	2,884.38	
<i>For Class 56 Rating, Add</i>	3,823.10	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,812.40	1,159.12
<i>For Class 52 Rating, Deduct</i>	-1,436.18	
<i>For Class 54 Rating, Add</i>	1,979.50	
<i>For Class 55 Rating, Add</i>	2,953.67	
<i>For Class 56 Rating, Add</i>	3,914.79	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,128.82	1,163.33
<i>For Class 52 Rating, Deduct</i>	-1,470.28	
<i>For Class 54 Rating, Add</i>	2,026.08	
<i>For Class 55 Rating, Add</i>	3,022.97	
<i>For Class 56 Rating, Add</i>	4,006.49	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,445.25	1,167.52
<i>For Class 52 Rating, Deduct</i>	-1,504.39	
<i>For Class 54 Rating, Add</i>	2,072.67	
<i>For Class 55 Rating, Add</i>	3,092.26	
<i>For Class 56 Rating, Add</i>	4,098.18	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,761.67	1,171.73
<i>For Class 52 Rating, Deduct</i>	-1,538.50	
<i>For Class 54 Rating, Add</i>	2,119.25	
<i>For Class 55 Rating, Add</i>	3,161.56	
<i>For Class 56 Rating, Add</i>	4,189.88	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,078.09	1,175.92
<i>For Class 52 Rating, Deduct</i>	-1,572.60	
<i>For Class 54 Rating, Add</i>	2,165.84	
<i>For Class 55 Rating, Add</i>	3,230.86	
<i>For Class 56 Rating, Add</i>	4,281.58	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,394.52	1,180.13
<i>For Class 52 Rating, Deduct</i>	-1,606.71	
<i>For Class 54 Rating, Add</i>	2,212.42	
<i>For Class 55 Rating, Add</i>	3,300.15	
<i>For Class 56 Rating, Add</i>	4,373.27	
40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,710.94	1,184.32
<i>For Class 52 Rating, Deduct</i>	-1,640.82	
<i>For Class 54 Rating, Add</i>	2,259.01	
<i>For Class 55 Rating, Add</i>	3,369.45	
<i>For Class 56 Rating, Add</i>	4,464.97	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA		20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,027.35	1,188.52
			<i>For Class 52 Rating, Deduct</i>	-1,674.92	
			<i>For Class 54 Rating, Add</i>	2,305.59	
			<i>For Class 55 Rating, Add</i>	3,438.74	
			<i>For Class 56 Rating, Add</i>	4,556.66	
40 05 19 00-0358	EA		20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,343.78	1,192.73
			<i>For Class 52 Rating, Deduct</i>	-1,709.03	
			<i>For Class 54 Rating, Add</i>	2,352.18	
			<i>For Class 55 Rating, Add</i>	3,506.04	
			<i>For Class 56 Rating, Add</i>	4,648.36	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>					
40 05 19 00-0360	EA		24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,931.33	1,226.32
			<i>For Class 52 Rating, Deduct</i>	-558.06	
			<i>For Class 54 Rating, Add</i>	783.29	
			<i>For Class 55 Rating, Add</i>	1,175.93	
			<i>For Class 56 Rating, Add</i>	1,563.50	
40 05 19 00-0361	EA		24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,321.91	1,230.52
			<i>For Class 52 Rating, Deduct</i>	-600.32	
			<i>For Class 54 Rating, Add</i>	841.00	
			<i>For Class 55 Rating, Add</i>	1,261.76	
			<i>For Class 56 Rating, Add</i>	1,677.08	
40 05 19 00-0362	EA		24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,712.47	1,234.72
			<i>For Class 52 Rating, Deduct</i>	-642.58	
			<i>For Class 54 Rating, Add</i>	898.70	
			<i>For Class 55 Rating, Add</i>	1,347.59	
			<i>For Class 56 Rating, Add</i>	1,790.64	
40 05 19 00-0363	EA		24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,103.03	1,238.93
			<i>For Class 52 Rating, Deduct</i>	-684.85	
			<i>For Class 54 Rating, Add</i>	956.41	
			<i>For Class 55 Rating, Add</i>	1,433.42	
			<i>For Class 56 Rating, Add</i>	1,904.21	
40 05 19 00-0364	EA		24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,493.61	1,243.12
			<i>For Class 52 Rating, Deduct</i>	-727.11	
			<i>For Class 54 Rating, Add</i>	1,014.12	
			<i>For Class 55 Rating, Add</i>	1,519.25	
			<i>For Class 56 Rating, Add</i>	2,017.78	
40 05 19 00-0365	EA		24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,884.17	1,247.32
			<i>For Class 52 Rating, Deduct</i>	-769.37	
			<i>For Class 54 Rating, Add</i>	1,071.82	
			<i>For Class 55 Rating, Add</i>	1,605.08	
			<i>For Class 56 Rating, Add</i>	2,131.35	
40 05 19 00-0366	EA		24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,274.73	1,251.52
			<i>For Class 52 Rating, Deduct</i>	-811.63	
			<i>For Class 54 Rating, Add</i>	1,129.53	
			<i>For Class 55 Rating, Add</i>	1,690.91	
			<i>For Class 56 Rating, Add</i>	2,244.92	
40 05 19 00-0367	EA		24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,665.30	1,255.72
			<i>For Class 52 Rating, Deduct</i>	-853.90	
			<i>For Class 54 Rating, Add</i>	1,187.23	
			<i>For Class 55 Rating, Add</i>	1,776.74	
			<i>For Class 56 Rating, Add</i>	2,358.49	
40 05 19 00-0368	EA		24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,055.87	1,259.92
			<i>For Class 52 Rating, Deduct</i>	-896.16	
			<i>For Class 54 Rating, Add</i>	1,244.94	
			<i>For Class 55 Rating, Add</i>	1,862.57	
			<i>For Class 56 Rating, Add</i>	2,472.06	
40 05 19 00-0369	EA		24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,446.43	1,264.12
			<i>For Class 52 Rating, Deduct</i>	-938.42	
			<i>For Class 54 Rating, Add</i>	1,302.65	
			<i>For Class 55 Rating, Add</i>	1,948.40	
			<i>For Class 56 Rating, Add</i>	2,585.63	
40 05 19 00-0370	EA		24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,837.00	1,268.32
			<i>For Class 52 Rating, Deduct</i>	-980.68	
			<i>For Class 54 Rating, Add</i>	1,360.36	
			<i>For Class 55 Rating, Add</i>	2,034.23	
			<i>For Class 56 Rating, Add</i>	2,699.19	
40 05 19 00-0371	EA		24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,227.57	1,272.52
			<i>For Class 52 Rating, Deduct</i>	-1,022.95	
			<i>For Class 54 Rating, Add</i>	1,418.06	
			<i>For Class 55 Rating, Add</i>	2,120.06	
			<i>For Class 56 Rating, Add</i>	2,812.77	
40 05 19 00-0372	EA		24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,618.14	1,276.71
			<i>For Class 52 Rating, Deduct</i>	-1,065.21	
			<i>For Class 54 Rating, Add</i>	1,475.77	
			<i>For Class 55 Rating, Add</i>	2,205.89	
			<i>For Class 56 Rating, Add</i>	2,926.33	
40 05 19 00-0373	EA		24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,008.70	1,280.92
			<i>For Class 52 Rating, Deduct</i>	-1,107.47	
			<i>For Class 54 Rating, Add</i>	1,533.48	
			<i>For Class 55 Rating, Add</i>	2,291.72	
			<i>For Class 56 Rating, Add</i>	3,039.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,399.26	1,285.12
<i>For Class 52 Rating, Deduct</i>	-1,149.73	
<i>For Class 54 Rating, Add</i>	1,591.18	
<i>For Class 55 Rating, Add</i>	2,377.55	
<i>For Class 56 Rating, Add</i>	3,153.47	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,789.84	1,289.32
<i>For Class 52 Rating, Deduct</i>	-1,192.00	
<i>For Class 54 Rating, Add</i>	1,648.89	
<i>For Class 55 Rating, Add</i>	2,463.38	
<i>For Class 56 Rating, Add</i>	3,267.04	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,180.40	1,293.52
<i>For Class 52 Rating, Deduct</i>	-1,234.26	
<i>For Class 54 Rating, Add</i>	1,706.60	
<i>For Class 55 Rating, Add</i>	2,549.21	
<i>For Class 56 Rating, Add</i>	3,380.61	
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,570.96	1,297.72
<i>For Class 52 Rating, Deduct</i>	-1,276.52	
<i>For Class 54 Rating, Add</i>	1,764.30	
<i>For Class 55 Rating, Add</i>	2,635.04	
<i>For Class 56 Rating, Add</i>	3,494.18	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,961.53	1,301.92
<i>For Class 52 Rating, Deduct</i>	-1,318.78	
<i>For Class 54 Rating, Add</i>	1,822.01	
<i>For Class 55 Rating, Add</i>	2,720.87	
<i>For Class 56 Rating, Add</i>	3,607.75	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,352.10	1,306.11
<i>For Class 52 Rating, Deduct</i>	-1,361.04	
<i>For Class 54 Rating, Add</i>	1,879.72	
<i>For Class 55 Rating, Add</i>	2,806.70	
<i>For Class 56 Rating, Add</i>	3,721.32	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,742.66	1,310.32
<i>For Class 52 Rating, Deduct</i>	-1,403.31	
<i>For Class 54 Rating, Add</i>	1,937.42	
<i>For Class 55 Rating, Add</i>	2,892.53	
<i>For Class 56 Rating, Add</i>	3,834.88	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,133.23	1,314.51
<i>For Class 52 Rating, Deduct</i>	-1,445.57	
<i>For Class 54 Rating, Add</i>	1,995.13	
<i>For Class 55 Rating, Add</i>	2,978.36	
<i>For Class 56 Rating, Add</i>	3,948.45	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,523.79	1,318.72
<i>For Class 52 Rating, Deduct</i>	-1,487.83	
<i>For Class 54 Rating, Add</i>	2,052.84	
<i>For Class 55 Rating, Add</i>	3,064.19	
<i>For Class 56 Rating, Add</i>	4,062.02	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,914.35	1,322.91
<i>For Class 52 Rating, Deduct</i>	-1,530.09	
<i>For Class 54 Rating, Add</i>	2,110.54	
<i>For Class 55 Rating, Add</i>	3,150.02	
<i>For Class 56 Rating, Add</i>	4,175.59	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,304.92	1,327.12
<i>For Class 52 Rating, Deduct</i>	-1,572.36	
<i>For Class 54 Rating, Add</i>	2,168.25	
<i>For Class 55 Rating, Add</i>	3,235.85	
<i>For Class 56 Rating, Add</i>	4,289.16	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,695.48	1,331.32
<i>For Class 52 Rating, Deduct</i>	-1,614.62	
<i>For Class 54 Rating, Add</i>	2,225.96	
<i>For Class 55 Rating, Add</i>	3,321.68	
<i>For Class 56 Rating, Add</i>	4,402.73	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,086.05	1,335.51
<i>For Class 52 Rating, Deduct</i>	-1,656.88	
<i>For Class 54 Rating, Add</i>	2,283.66	
<i>For Class 55 Rating, Add</i>	3,407.51	
<i>For Class 56 Rating, Add</i>	4,516.30	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,476.62	1,339.72
<i>For Class 52 Rating, Deduct</i>	-1,699.14	
<i>For Class 54 Rating, Add</i>	2,341.37	
<i>For Class 55 Rating, Add</i>	3,493.34	
<i>For Class 56 Rating, Add</i>	4,629.87	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,867.18	1,343.91
<i>For Class 52 Rating, Deduct</i>	-1,741.40	
<i>For Class 54 Rating, Add</i>	2,399.08	
<i>For Class 55 Rating, Add</i>	3,579.17	
<i>For Class 56 Rating, Add</i>	4,743.43	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,265.93	1,419.51
<i>For Class 52 Rating, Deduct</i>	-1,783.67	
<i>For Class 54 Rating, Add</i>	2,458.08	
<i>For Class 55 Rating, Add</i>	3,667.60	
<i>For Class 56 Rating, Add</i>	4,860.90	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,756.50	1,423.71
<i>For Class 52 Rating, Deduct</i>	-1,825.93	
<i>For Class 54 Rating, Add</i>	2,515.79	
<i>For Class 55 Rating, Add</i>	3,753.43	
<i>For Class 56 Rating, Add</i>	4,974.47	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA	24"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,147.06	1,427.91
			<i>For Class 52 Rating, Deduct</i>	-1,868.19	
			<i>For Class 54 Rating, Add</i>	2,573.50	
			<i>For Class 55 Rating, Add</i>	3,839.26	
			<i>For Class 56 Rating, Add</i>	5,088.04	
40 05 19 00-0392	EA	24"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,537.62	1,432.11
			<i>For Class 52 Rating, Deduct</i>	-1,910.45	
			<i>For Class 54 Rating, Add</i>	2,631.20	
			<i>For Class 55 Rating, Add</i>	3,925.09	
			<i>For Class 56 Rating, Add</i>	5,201.60	
40 05 19 00-0393	EA	24"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,928.20	1,436.31
			<i>For Class 52 Rating, Deduct</i>	-1,952.72	
			<i>For Class 54 Rating, Add</i>	2,688.91	
			<i>For Class 55 Rating, Add</i>	4,010.92	
			<i>For Class 56 Rating, Add</i>	5,315.18	
40 05 19 00-0394	EA	24"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,318.76	1,440.51
			<i>For Class 52 Rating, Deduct</i>	-1,994.98	
			<i>For Class 54 Rating, Add</i>	2,746.62	
			<i>For Class 55 Rating, Add</i>	4,096.75	
			<i>For Class 56 Rating, Add</i>	5,428.74	
40 05 19 00-0395	EA	24"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,709.32	1,444.71
			<i>For Class 52 Rating, Deduct</i>	-2,037.24	
			<i>For Class 54 Rating, Add</i>	2,804.32	
			<i>For Class 55 Rating, Add</i>	4,182.58	
			<i>For Class 56 Rating, Add</i>	5,542.31	
40 05 19 00-0396	EA	24"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,099.90	1,448.91
			<i>For Class 52 Rating, Deduct</i>	-2,079.50	
			<i>For Class 54 Rating, Add</i>	2,862.03	
			<i>For Class 55 Rating, Add</i>	4,268.41	
			<i>For Class 56 Rating, Add</i>	5,655.88	
40 05 19 00-0397	EA	24"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,490.46	1,453.10
			<i>For Class 52 Rating, Deduct</i>	-2,121.77	
			<i>For Class 54 Rating, Add</i>	2,919.74	
			<i>For Class 55 Rating, Add</i>	4,354.24	
			<i>For Class 56 Rating, Add</i>	5,769.45	
40 05 19 00-0398	30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>				
40 05 19 00-0399	EA	30"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,687.66	1,730.29
			<i>For Class 52 Rating, Deduct</i>	-887.26	
			<i>For Class 54 Rating, Add</i>	1,241.36	
			<i>For Class 55 Rating, Add</i>	1,861.64	
			<i>For Class 56 Rating, Add</i>	2,473.85	
40 05 19 00-0400	EA	30"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,248.98	1,734.49
			<i>For Class 52 Rating, Deduct</i>	-948.31	
			<i>For Class 54 Rating, Add</i>	1,324.68	
			<i>For Class 55 Rating, Add</i>	1,985.55	
			<i>For Class 56 Rating, Add</i>	2,637.79	
40 05 19 00-0401	EA	30"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,810.31	1,738.69
			<i>For Class 52 Rating, Deduct</i>	-1,009.35	
			<i>For Class 54 Rating, Add</i>	1,408.00	
			<i>For Class 55 Rating, Add</i>	2,109.46	
			<i>For Class 56 Rating, Add</i>	2,801.74	
40 05 19 00-0402	EA	30"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,371.63	1,742.89
			<i>For Class 52 Rating, Deduct</i>	-1,070.40	
			<i>For Class 54 Rating, Add</i>	1,491.32	
			<i>For Class 55 Rating, Add</i>	2,233.37	
			<i>For Class 56 Rating, Add</i>	2,965.68	
40 05 19 00-0403	EA	30"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,932.95	1,747.09
			<i>For Class 52 Rating, Deduct</i>	-1,131.44	
			<i>For Class 54 Rating, Add</i>	1,574.64	
			<i>For Class 55 Rating, Add</i>	2,357.27	
			<i>For Class 56 Rating, Add</i>	3,129.62	
40 05 19 00-0404	EA	30"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,494.28	1,751.29
			<i>For Class 52 Rating, Deduct</i>	-1,192.49	
			<i>For Class 54 Rating, Add</i>	1,657.96	
			<i>For Class 55 Rating, Add</i>	2,481.18	
			<i>For Class 56 Rating, Add</i>	3,293.56	
40 05 19 00-0405	EA	30"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,055.60	1,755.48
			<i>For Class 52 Rating, Deduct</i>	-1,253.53	
			<i>For Class 54 Rating, Add</i>	1,741.28	
			<i>For Class 55 Rating, Add</i>	2,605.09	
			<i>For Class 56 Rating, Add</i>	3,457.51	
40 05 19 00-0406	EA	30"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,616.92	1,759.69
			<i>For Class 52 Rating, Deduct</i>	-1,314.58	
			<i>For Class 54 Rating, Add</i>	1,824.60	
			<i>For Class 55 Rating, Add</i>	2,729.00	
			<i>For Class 56 Rating, Add</i>	3,621.45	
40 05 19 00-0407	EA	30"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,178.25	1,763.89
			<i>For Class 52 Rating, Deduct</i>	-1,375.63	
			<i>For Class 54 Rating, Add</i>	1,907.92	
			<i>For Class 55 Rating, Add</i>	2,852.91	
			<i>For Class 56 Rating, Add</i>	3,785.39	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,739.57	1,768.09
<i>For Class 52 Rating, Deduct</i>	-1,436.67	
<i>For Class 54 Rating, Add</i>	1,991.24	
<i>For Class 55 Rating, Add</i>	2,976.82	
<i>For Class 56 Rating, Add</i>	3,949.33	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,300.89	1,772.29
<i>For Class 52 Rating, Deduct</i>	-1,497.72	
<i>For Class 54 Rating, Add</i>	2,074.56	
<i>For Class 55 Rating, Add</i>	3,100.73	
<i>For Class 56 Rating, Add</i>	4,113.28	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,862.22	1,776.49
<i>For Class 52 Rating, Deduct</i>	-1,558.76	
<i>For Class 54 Rating, Add</i>	2,157.89	
<i>For Class 55 Rating, Add</i>	3,224.64	
<i>For Class 56 Rating, Add</i>	4,277.22	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,423.54	1,780.69
<i>For Class 52 Rating, Deduct</i>	-1,619.81	
<i>For Class 54 Rating, Add</i>	2,241.21	
<i>For Class 55 Rating, Add</i>	3,348.55	
<i>For Class 56 Rating, Add</i>	4,441.16	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,984.87	1,784.88
<i>For Class 52 Rating, Deduct</i>	-1,680.85	
<i>For Class 54 Rating, Add</i>	2,324.53	
<i>For Class 55 Rating, Add</i>	3,472.45	
<i>For Class 56 Rating, Add</i>	4,605.10	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,546.19	1,789.09
<i>For Class 52 Rating, Deduct</i>	-1,741.90	
<i>For Class 54 Rating, Add</i>	2,407.85	
<i>For Class 55 Rating, Add</i>	3,596.36	
<i>For Class 56 Rating, Add</i>	4,769.04	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,107.51	1,793.28
<i>For Class 52 Rating, Deduct</i>	-1,802.95	
<i>For Class 54 Rating, Add</i>	2,491.17	
<i>For Class 55 Rating, Add</i>	3,720.27	
<i>For Class 56 Rating, Add</i>	4,932.99	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,668.84	1,797.49
<i>For Class 52 Rating, Deduct</i>	-1,863.99	
<i>For Class 54 Rating, Add</i>	2,574.49	
<i>For Class 55 Rating, Add</i>	3,844.18	
<i>For Class 56 Rating, Add</i>	5,096.93	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,230.16	1,801.68
<i>For Class 52 Rating, Deduct</i>	-1,925.04	
<i>For Class 54 Rating, Add</i>	2,657.81	
<i>For Class 55 Rating, Add</i>	3,968.09	
<i>For Class 56 Rating, Add</i>	5,260.87	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,791.47	1,805.89
<i>For Class 52 Rating, Deduct</i>	-1,986.08	
<i>For Class 54 Rating, Add</i>	2,741.13	
<i>For Class 55 Rating, Add</i>	4,092.00	
<i>For Class 56 Rating, Add</i>	5,424.81	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,352.80	1,810.09
<i>For Class 52 Rating, Deduct</i>	-2,047.13	
<i>For Class 54 Rating, Add</i>	2,824.45	
<i>For Class 55 Rating, Add</i>	4,215.90	
<i>For Class 56 Rating, Add</i>	5,588.75	
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,914.12	1,814.28
<i>For Class 52 Rating, Deduct</i>	-2,108.17	
<i>For Class 54 Rating, Add</i>	2,907.77	
<i>For Class 55 Rating, Add</i>	4,339.81	
<i>For Class 56 Rating, Add</i>	5,752.70	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,475.44	1,818.49
<i>For Class 52 Rating, Deduct</i>	-2,169.22	
<i>For Class 54 Rating, Add</i>	2,991.09	
<i>For Class 55 Rating, Add</i>	4,463.72	
<i>For Class 56 Rating, Add</i>	5,916.64	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,036.77	1,822.68
<i>For Class 52 Rating, Deduct</i>	-2,230.26	
<i>For Class 54 Rating, Add</i>	3,074.41	
<i>For Class 55 Rating, Add</i>	4,587.63	
<i>For Class 56 Rating, Add</i>	6,080.58	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,598.09	1,826.89
<i>For Class 52 Rating, Deduct</i>	-2,291.31	
<i>For Class 54 Rating, Add</i>	3,157.73	
<i>For Class 55 Rating, Add</i>	4,711.54	
<i>For Class 56 Rating, Add</i>	6,244.52	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,157.17	1,831.08
<i>For Class 52 Rating, Deduct</i>	-2,352.11	
<i>For Class 54 Rating, Add</i>	3,240.71	
<i>For Class 55 Rating, Add</i>	4,834.95	
<i>For Class 56 Rating, Add</i>	6,407.80	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,720.74	1,835.29
<i>For Class 52 Rating, Deduct</i>	-2,413.40	
<i>For Class 54 Rating, Add</i>	3,324.37	
<i>For Class 55 Rating, Add</i>	4,959.36	
<i>For Class 56 Rating, Add</i>	6,572.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,282.06	1,839.48
			<i>For Class 52 Rating, Deduct</i>	-2,474.45	
			<i>For Class 54 Rating, Add</i>	3,407.69	
			<i>For Class 55 Rating, Add</i>	5,083.27	
			<i>For Class 56 Rating, Add</i>	6,736.35	
40 05 19 00-0426	EA	30"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,843.38	1,843.68
			<i>For Class 52 Rating, Deduct</i>	-2,535.49	
			<i>For Class 54 Rating, Add</i>	3,491.01	
			<i>For Class 55 Rating, Add</i>	5,207.18	
			<i>For Class 56 Rating, Add</i>	6,900.29	
40 05 19 00-0427	EA	30"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,404.70	1,847.88
			<i>For Class 52 Rating, Deduct</i>	-2,596.54	
			<i>For Class 54 Rating, Add</i>	3,574.33	
			<i>For Class 55 Rating, Add</i>	5,331.08	
			<i>For Class 56 Rating, Add</i>	7,064.23	
40 05 19 00-0428	EA	30"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,966.02	1,852.08
			<i>For Class 52 Rating, Deduct</i>	-2,657.58	
			<i>For Class 54 Rating, Add</i>	3,657.65	
			<i>For Class 55 Rating, Add</i>	5,454.99	
			<i>For Class 56 Rating, Add</i>	7,228.18	
40 05 19 00-0429	EA	30"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,527.34	1,856.29
			<i>For Class 52 Rating, Deduct</i>	-2,718.63	
			<i>For Class 54 Rating, Add</i>	3,740.97	
			<i>For Class 55 Rating, Add</i>	5,578.90	
			<i>For Class 56 Rating, Add</i>	7,392.12	
40 05 19 00-0430	EA	30"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,088.67	1,860.48
			<i>For Class 52 Rating, Deduct</i>	-2,779.67	
			<i>For Class 54 Rating, Add</i>	3,824.29	
			<i>For Class 55 Rating, Add</i>	5,702.81	
			<i>For Class 56 Rating, Add</i>	7,556.06	
40 05 19 00-0431	EA	30"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,649.99	1,864.69
			<i>For Class 52 Rating, Deduct</i>	-2,840.72	
			<i>For Class 54 Rating, Add</i>	3,907.61	
			<i>For Class 55 Rating, Add</i>	5,826.72	
			<i>For Class 56 Rating, Add</i>	7,720.00	
40 05 19 00-0432	EA	30"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,211.31	1,868.88
			<i>For Class 52 Rating, Deduct</i>	-2,901.76	
			<i>For Class 54 Rating, Add</i>	3,990.93	
			<i>For Class 55 Rating, Add</i>	5,950.63	
			<i>For Class 56 Rating, Add</i>	7,883.94	
40 05 19 00-0433	EA	30"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,772.64	1,873.08
			<i>For Class 52 Rating, Deduct</i>	-2,962.81	
			<i>For Class 54 Rating, Add</i>	4,074.25	
			<i>For Class 55 Rating, Add</i>	6,074.54	
			<i>For Class 56 Rating, Add</i>	8,047.89	
40 05 19 00-0434	EA	30"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,333.96	1,877.28
			<i>For Class 52 Rating, Deduct</i>	-3,023.86	
			<i>For Class 54 Rating, Add</i>	4,157.57	
			<i>For Class 55 Rating, Add</i>	6,198.45	
			<i>For Class 56 Rating, Add</i>	8,211.83	
40 05 19 00-0435	EA	30"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,895.29	1,881.48
			<i>For Class 52 Rating, Deduct</i>	-3,084.90	
			<i>For Class 54 Rating, Add</i>	4,240.89	
			<i>For Class 55 Rating, Add</i>	6,322.35	
			<i>For Class 56 Rating, Add</i>	8,375.77	
40 05 19 00-0436	EA	30"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,456.61	1,885.68
			<i>For Class 52 Rating, Deduct</i>	-3,145.95	
			<i>For Class 54 Rating, Add</i>	4,324.21	
			<i>For Class 55 Rating, Add</i>	6,446.26	
			<i>For Class 56 Rating, Add</i>	8,539.71	
40 05 19 00-0437			36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438	EA	36"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,863.42	2,192.26
			<i>For Class 52 Rating, Deduct</i>	-1,269.60	
			<i>For Class 54 Rating, Add</i>	1,771.13	
			<i>For Class 55 Rating, Add</i>	2,653.54	
			<i>For Class 56 Rating, Add</i>	3,524.41	
40 05 19 00-0439	EA	36"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,624.72	2,196.46
			<i>For Class 52 Rating, Deduct</i>	-1,352.64	
			<i>For Class 54 Rating, Add</i>	1,884.45	
			<i>For Class 55 Rating, Add</i>	2,822.04	
			<i>For Class 56 Rating, Add</i>	3,747.35	
40 05 19 00-0440	EA	36"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,385.99	2,200.66
			<i>For Class 52 Rating, Deduct</i>	-1,435.68	
			<i>For Class 54 Rating, Add</i>	1,997.76	
			<i>For Class 55 Rating, Add</i>	2,990.54	
			<i>For Class 56 Rating, Add</i>	3,970.28	
40 05 19 00-0441	EA	36"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,147.28	2,204.86
			<i>For Class 52 Rating, Deduct</i>	-1,518.72	
			<i>For Class 54 Rating, Add</i>	2,111.08	
			<i>For Class 55 Rating, Add</i>	3,159.05	
			<i>For Class 56 Rating, Add</i>	4,193.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,908.57	2,209.06
<i>For Class 52 Rating, Deduct</i>	-1,601.77	
<i>For Class 54 Rating, Add</i>	2,224.39	
<i>For Class 55 Rating, Add</i>	3,327.55	
<i>For Class 56 Rating, Add</i>	4,416.14	
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,669.86	2,213.26
<i>For Class 52 Rating, Deduct</i>	-1,684.81	
<i>For Class 54 Rating, Add</i>	2,337.71	
<i>For Class 55 Rating, Add</i>	3,496.05	
<i>For Class 56 Rating, Add</i>	4,639.07	
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,431.14	2,217.46
<i>For Class 52 Rating, Deduct</i>	-1,767.85	
<i>For Class 54 Rating, Add</i>	2,451.02	
<i>For Class 55 Rating, Add</i>	3,664.55	
<i>For Class 56 Rating, Add</i>	4,862.00	
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,192.44	2,221.66
<i>For Class 52 Rating, Deduct</i>	-1,850.89	
<i>For Class 54 Rating, Add</i>	2,564.34	
<i>For Class 55 Rating, Add</i>	3,833.05	
<i>For Class 56 Rating, Add</i>	5,084.94	
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,953.72	2,225.85
<i>For Class 52 Rating, Deduct</i>	-1,933.93	
<i>For Class 54 Rating, Add</i>	2,677.65	
<i>For Class 55 Rating, Add</i>	4,001.55	
<i>For Class 56 Rating, Add</i>	5,307.87	
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,715.00	2,230.06
<i>For Class 52 Rating, Deduct</i>	-2,016.97	
<i>For Class 54 Rating, Add</i>	2,790.97	
<i>For Class 55 Rating, Add</i>	4,170.05	
<i>For Class 56 Rating, Add</i>	5,530.80	
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,476.30	2,234.26
<i>For Class 52 Rating, Deduct</i>	-2,100.02	
<i>For Class 54 Rating, Add</i>	2,904.28	
<i>For Class 55 Rating, Add</i>	4,338.55	
<i>For Class 56 Rating, Add</i>	5,753.73	
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,237.58	2,238.46
<i>For Class 52 Rating, Deduct</i>	-2,183.06	
<i>For Class 54 Rating, Add</i>	3,017.60	
<i>For Class 55 Rating, Add</i>	4,507.05	
<i>For Class 56 Rating, Add</i>	5,976.66	
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,998.87	2,242.66
<i>For Class 52 Rating, Deduct</i>	-2,266.10	
<i>For Class 54 Rating, Add</i>	3,130.91	
<i>For Class 55 Rating, Add</i>	4,675.55	
<i>For Class 56 Rating, Add</i>	6,199.60	
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,760.16	2,246.86
<i>For Class 52 Rating, Deduct</i>	-2,349.14	
<i>For Class 54 Rating, Add</i>	3,244.23	
<i>For Class 55 Rating, Add</i>	4,844.05	
<i>For Class 56 Rating, Add</i>	6,422.53	
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,521.45	2,251.06
<i>For Class 52 Rating, Deduct</i>	-2,432.18	
<i>For Class 54 Rating, Add</i>	3,357.54	
<i>For Class 55 Rating, Add</i>	5,012.56	
<i>For Class 56 Rating, Add</i>	6,645.46	
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,282.73	2,255.25
<i>For Class 52 Rating, Deduct</i>	-2,515.22	
<i>For Class 54 Rating, Add</i>	3,470.86	
<i>For Class 55 Rating, Add</i>	5,181.06	
<i>For Class 56 Rating, Add</i>	6,868.39	
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,044.03	2,259.46
<i>For Class 52 Rating, Deduct</i>	-2,598.27	
<i>For Class 54 Rating, Add</i>	3,584.17	
<i>For Class 55 Rating, Add</i>	5,349.56	
<i>For Class 56 Rating, Add</i>	7,091.32	
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,805.31	2,263.65
<i>For Class 52 Rating, Deduct</i>	-2,681.31	
<i>For Class 54 Rating, Add</i>	3,697.49	
<i>For Class 55 Rating, Add</i>	5,518.06	
<i>For Class 56 Rating, Add</i>	7,314.25	
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,566.60	2,267.86
<i>For Class 52 Rating, Deduct</i>	-2,764.35	
<i>For Class 54 Rating, Add</i>	3,810.80	
<i>For Class 55 Rating, Add</i>	5,686.56	
<i>For Class 56 Rating, Add</i>	7,537.19	
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,327.89	2,272.05
<i>For Class 52 Rating, Deduct</i>	-2,847.39	
<i>For Class 54 Rating, Add</i>	3,924.12	
<i>For Class 55 Rating, Add</i>	5,855.06	
<i>For Class 56 Rating, Add</i>	7,760.12	
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,089.18	2,276.26
<i>For Class 52 Rating, Deduct</i>	-2,930.43	
<i>For Class 54 Rating, Add</i>	4,037.43	
<i>For Class 55 Rating, Add</i>	6,023.56	
<i>For Class 56 Rating, Add</i>	7,983.05	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,850.46	2,280.46
			<i>For Class 52 Rating, Deduct</i>	-3,013.48	
			<i>For Class 54 Rating, Add</i>	4,150.75	
			<i>For Class 55 Rating, Add</i>	6,192.06	
			<i>For Class 56 Rating, Add</i>	8,205.98	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,611.76	2,284.65
			<i>For Class 52 Rating, Deduct</i>	-3,096.52	
			<i>For Class 54 Rating, Add</i>	4,264.06	
			<i>For Class 55 Rating, Add</i>	6,360.56	
			<i>For Class 56 Rating, Add</i>	8,428.91	
40 05 19 00-0461	EA		36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,373.04	2,288.86
			<i>For Class 52 Rating, Deduct</i>	-3,179.56	
			<i>For Class 54 Rating, Add</i>	4,377.38	
			<i>For Class 55 Rating, Add</i>	6,529.06	
			<i>For Class 56 Rating, Add</i>	8,651.85	
40 05 19 00-0462	EA		36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,134.34	2,293.05
			<i>For Class 52 Rating, Deduct</i>	-3,262.60	
			<i>For Class 54 Rating, Add</i>	4,490.69	
			<i>For Class 55 Rating, Add</i>	6,697.57	
			<i>For Class 56 Rating, Add</i>	8,874.78	
40 05 19 00-0463	EA		36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,895.62	2,297.26
			<i>For Class 52 Rating, Deduct</i>	-3,345.64	
			<i>For Class 54 Rating, Add</i>	4,604.01	
			<i>For Class 55 Rating, Add</i>	6,866.07	
			<i>For Class 56 Rating, Add</i>	9,097.71	
40 05 19 00-0464	EA		36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,656.91	2,301.45
			<i>For Class 52 Rating, Deduct</i>	-3,428.68	
			<i>For Class 54 Rating, Add</i>	4,717.32	
			<i>For Class 55 Rating, Add</i>	7,034.57	
			<i>For Class 56 Rating, Add</i>	9,320.64	
40 05 19 00-0465	EA		36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,418.20	2,305.66
			<i>For Class 52 Rating, Deduct</i>	-3,511.73	
			<i>For Class 54 Rating, Add</i>	4,830.64	
			<i>For Class 55 Rating, Add</i>	7,203.07	
			<i>For Class 56 Rating, Add</i>	9,543.57	
40 05 19 00-0466	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,179.49	2,309.85
			<i>For Class 52 Rating, Deduct</i>	-3,594.77	
			<i>For Class 54 Rating, Add</i>	4,943.95	
			<i>For Class 55 Rating, Add</i>	7,371.57	
			<i>For Class 56 Rating, Add</i>	9,766.51	
40 05 19 00-0467	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,940.77	2,314.05
			<i>For Class 52 Rating, Deduct</i>	-3,677.81	
			<i>For Class 54 Rating, Add</i>	5,057.27	
			<i>For Class 55 Rating, Add</i>	7,540.07	
			<i>For Class 56 Rating, Add</i>	9,989.44	
40 05 19 00-0468	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,702.07	2,318.25
			<i>For Class 52 Rating, Deduct</i>	-3,760.85	
			<i>For Class 54 Rating, Add</i>	5,170.58	
			<i>For Class 55 Rating, Add</i>	7,708.57	
			<i>For Class 56 Rating, Add</i>	10,212.37	
40 05 19 00-0469	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,463.35	2,322.45
			<i>For Class 52 Rating, Deduct</i>	-3,843.89	
			<i>For Class 54 Rating, Add</i>	5,283.90	
			<i>For Class 55 Rating, Add</i>	7,877.07	
			<i>For Class 56 Rating, Add</i>	10,435.30	
40 05 19 00-0470	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,224.64	2,326.66
			<i>For Class 52 Rating, Deduct</i>	-3,926.94	
			<i>For Class 54 Rating, Add</i>	5,397.21	
			<i>For Class 55 Rating, Add</i>	8,045.57	
			<i>For Class 56 Rating, Add</i>	10,658.23	
40 05 19 00-0471	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,985.93	2,330.85
			<i>For Class 52 Rating, Deduct</i>	-4,009.98	
			<i>For Class 54 Rating, Add</i>	5,510.53	
			<i>For Class 55 Rating, Add</i>	8,214.07	
			<i>For Class 56 Rating, Add</i>	10,881.16	
40 05 19 00-0472	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,747.21	2,335.06
			<i>For Class 52 Rating, Deduct</i>	-4,093.02	
			<i>For Class 54 Rating, Add</i>	5,623.84	
			<i>For Class 55 Rating, Add</i>	8,382.57	
			<i>For Class 56 Rating, Add</i>	11,104.10	
40 05 19 00-0473	EA		36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,508.50	2,339.25
			<i>For Class 52 Rating, Deduct</i>	-4,176.06	
			<i>For Class 54 Rating, Add</i>	5,737.16	
			<i>For Class 55 Rating, Add</i>	8,551.08	
			<i>For Class 56 Rating, Add</i>	11,327.03	
40 05 19 00-0474	EA		36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,269.79	2,343.45
			<i>For Class 52 Rating, Deduct</i>	-4,259.10	
			<i>For Class 54 Rating, Add</i>	5,850.47	
			<i>For Class 55 Rating, Add</i>	8,719.58	
			<i>For Class 56 Rating, Add</i>	11,549.96	
40 05 19 00-0475	EA		36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,031.08	2,347.65
			<i>For Class 52 Rating, Deduct</i>	-4,342.14	
			<i>For Class 54 Rating, Add</i>	5,963.79	
			<i>For Class 55 Rating, Add</i>	8,888.08	
			<i>For Class 56 Rating, Add</i>	11,772.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476			42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,584.32	2,763.42
			For Class 52 Rating, Deduct	-1,693.71	
			For Class 54 Rating, Add	2,359.84	
			For Class 55 Rating, Add	3,534.09	
			For Class 56 Rating, Add	4,692.94	
40 05 19 00-0478	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,718.58	2,767.63
			For Class 52 Rating, Deduct	-1,817.77	
			For Class 54 Rating, Add	2,529.10	
			For Class 55 Rating, Add	3,785.76	
			For Class 56 Rating, Add	5,025.90	
40 05 19 00-0479	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,839.36	2,771.82
			For Class 52 Rating, Deduct	-1,940.36	
			For Class 54 Rating, Add	2,696.34	
			For Class 55 Rating, Add	4,034.43	
			For Class 56 Rating, Add	5,354.88	
40 05 19 00-0480	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,971.36	2,776.03
			For Class 52 Rating, Deduct	-2,064.18	
			For Class 54 Rating, Add	2,865.26	
			For Class 55 Rating, Add	4,285.60	
			For Class 56 Rating, Add	5,687.17	
40 05 19 00-0481	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,092.15	2,780.22
			For Class 52 Rating, Deduct	-2,186.77	
			For Class 54 Rating, Add	3,032.50	
			For Class 55 Rating, Add	4,534.27	
			For Class 56 Rating, Add	6,016.16	
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,226.40	2,784.42
			For Class 52 Rating, Deduct	-2,310.83	
			For Class 54 Rating, Add	3,201.76	
			For Class 55 Rating, Add	4,785.94	
			For Class 56 Rating, Add	6,349.11	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	26,344.93	2,788.62
			For Class 52 Rating, Deduct	-2,433.17	
			For Class 54 Rating, Add	3,368.66	
			For Class 55 Rating, Add	5,034.11	
			For Class 56 Rating, Add	6,677.43	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	27,479.19	2,792.82
			For Class 52 Rating, Deduct	-2,557.24	
			For Class 54 Rating, Add	3,537.92	
			For Class 55 Rating, Add	5,285.78	
			For Class 56 Rating, Add	7,010.39	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	28,599.96	2,797.02
			For Class 52 Rating, Deduct	-2,679.83	
			For Class 54 Rating, Add	3,705.16	
			For Class 55 Rating, Add	5,534.45	
			For Class 56 Rating, Add	7,339.37	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	29,731.98	2,801.22
			For Class 52 Rating, Deduct	-2,803.65	
			For Class 54 Rating, Add	3,874.09	
			For Class 55 Rating, Add	5,785.62	
			For Class 56 Rating, Add	7,671.67	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	30,852.75	2,805.43
			For Class 52 Rating, Deduct	-2,926.23	
			For Class 54 Rating, Add	4,041.32	
			For Class 55 Rating, Add	6,034.29	
			For Class 56 Rating, Add	8,000.65	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	31,984.76	2,809.62
			For Class 52 Rating, Deduct	-3,050.05	
			For Class 54 Rating, Add	4,210.25	
			For Class 55 Rating, Add	6,285.46	
			For Class 56 Rating, Add	8,332.94	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	33,105.54	2,813.83
			For Class 52 Rating, Deduct	-3,172.64	
			For Class 54 Rating, Add	4,377.49	
			For Class 55 Rating, Add	6,534.12	
			For Class 56 Rating, Add	8,661.92	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	34,228.56	2,818.02
			For Class 52 Rating, Deduct	-3,295.47	
			For Class 54 Rating, Add	4,545.06	
			For Class 55 Rating, Add	6,783.29	
			For Class 56 Rating, Add	8,991.57	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	35,358.32	2,822.22
			For Class 52 Rating, Deduct	-3,419.05	
			For Class 54 Rating, Add	4,713.65	
			For Class 55 Rating, Add	7,033.96	
			For Class 56 Rating, Add	9,323.20	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	36,479.10	2,826.42
			For Class 52 Rating, Deduct	-3,541.63	
			For Class 54 Rating, Add	4,880.89	
			For Class 55 Rating, Add	7,282.63	
			For Class 56 Rating, Add	9,652.18	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,613.36	2,830.62
			<i>For Class 52 Rating, Deduct</i>	-3,665.70	
			<i>For Class 54 Rating, Add</i>	5,050.15	
			<i>For Class 55 Rating, Add</i>	7,534.30	
			<i>For Class 56 Rating, Add</i>	9,985.14	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,734.13	2,834.82
			<i>For Class 52 Rating, Deduct</i>	-3,788.28	
			<i>For Class 54 Rating, Add</i>	5,217.38	
			<i>For Class 55 Rating, Add</i>	7,762.97	
			<i>For Class 56 Rating, Add</i>	10,314.12	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,866.15	2,839.02
			<i>For Class 52 Rating, Deduct</i>	-3,912.11	
			<i>For Class 54 Rating, Add</i>	5,386.31	
			<i>For Class 55 Rating, Add</i>	8,034.14	
			<i>For Class 56 Rating, Add</i>	10,646.41	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,986.92	2,843.22
			<i>For Class 52 Rating, Deduct</i>	-4,034.69	
			<i>For Class 54 Rating, Add</i>	5,553.55	
			<i>For Class 55 Rating, Add</i>	8,282.81	
			<i>For Class 56 Rating, Add</i>	10,975.39	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,121.17	2,847.42
			<i>For Class 52 Rating, Deduct</i>	-4,158.76	
			<i>For Class 54 Rating, Add</i>	5,722.81	
			<i>For Class 55 Rating, Add</i>	8,534.48	
			<i>For Class 56 Rating, Add</i>	11,308.35	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,241.96	2,851.62
			<i>For Class 52 Rating, Deduct</i>	-4,281.35	
			<i>For Class 54 Rating, Add</i>	5,890.05	
			<i>For Class 55 Rating, Add</i>	8,783.15	
			<i>For Class 56 Rating, Add</i>	11,637.33	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,373.96	2,855.82
			<i>For Class 52 Rating, Deduct</i>	-4,405.17	
			<i>For Class 54 Rating, Add</i>	6,058.97	
			<i>For Class 55 Rating, Add</i>	9,034.32	
			<i>For Class 56 Rating, Add</i>	11,969.63	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,494.74	2,860.02
			<i>For Class 52 Rating, Deduct</i>	-4,527.75	
			<i>For Class 54 Rating, Add</i>	6,226.21	
			<i>For Class 55 Rating, Add</i>	9,282.99	
			<i>For Class 56 Rating, Add</i>	12,298.61	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,629.00	2,864.22
			<i>For Class 52 Rating, Deduct</i>	-4,651.82	
			<i>For Class 54 Rating, Add</i>	6,395.47	
			<i>For Class 55 Rating, Add</i>	9,534.66	
			<i>For Class 56 Rating, Add</i>	12,631.56	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,749.77	2,868.42
			<i>For Class 52 Rating, Deduct</i>	-4,774.40	
			<i>For Class 54 Rating, Add</i>	6,562.71	
			<i>For Class 55 Rating, Add</i>	9,783.33	
			<i>For Class 56 Rating, Add</i>	12,960.54	
40 05 19 00-0503	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,879.53	2,872.62
			<i>For Class 52 Rating, Deduct</i>	-4,897.98	
			<i>For Class 54 Rating, Add</i>	6,731.29	
			<i>For Class 55 Rating, Add</i>	10,034.00	
			<i>For Class 56 Rating, Add</i>	13,292.18	
40 05 19 00-0504	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,002.56	2,876.82
			<i>For Class 52 Rating, Deduct</i>	-5,020.81	
			<i>For Class 54 Rating, Add</i>	6,898.87	
			<i>For Class 55 Rating, Add</i>	10,283.17	
			<i>For Class 56 Rating, Add</i>	13,621.82	
40 05 19 00-0505	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,898.65	2,881.01
			<i>For Class 52 Rating, Deduct</i>	-5,118.68	
			<i>For Class 54 Rating, Add</i>	7,032.40	
			<i>For Class 55 Rating, Add</i>	10,481.73	
			<i>For Class 56 Rating, Add</i>	13,884.52	
40 05 19 00-0506	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,255.34	2,885.22
			<i>For Class 52 Rating, Deduct</i>	-5,267.22	
			<i>For Class 54 Rating, Add</i>	7,235.03	
			<i>For Class 55 Rating, Add</i>	10,783.00	
			<i>For Class 56 Rating, Add</i>	14,283.10	
40 05 19 00-0507	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,376.12	2,889.41
			<i>For Class 52 Rating, Deduct</i>	-5,389.80	
			<i>For Class 54 Rating, Add</i>	7,402.27	
			<i>For Class 55 Rating, Add</i>	11,031.67	
			<i>For Class 56 Rating, Add</i>	14,612.08	
40 05 19 00-0508	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,376.13	2,893.62
			<i>For Class 52 Rating, Deduct</i>	-5,513.62	
			<i>For Class 54 Rating, Add</i>	7,571.19	
			<i>For Class 55 Rating, Add</i>	11,282.84	
			<i>For Class 56 Rating, Add</i>	14,944.37	
40 05 19 00-0509	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,628.91	2,897.82
			<i>For Class 52 Rating, Deduct</i>	-5,636.21	
			<i>For Class 54 Rating, Add</i>	7,738.43	
			<i>For Class 55 Rating, Add</i>	11,531.51	
			<i>For Class 56 Rating, Add</i>	15,273.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,763.17	2,902.02
<i>For Class 52 Rating, Deduct</i>	-5,760.28	
<i>For Class 54 Rating, Add</i>	7,907.69	
<i>For Class 55 Rating, Add</i>	11,783.18	
<i>For Class 56 Rating, Add</i>	15,606.31	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,881.68	2,906.22
<i>For Class 52 Rating, Deduct</i>	-5,882.62	
<i>For Class 54 Rating, Add</i>	8,074.59	
<i>For Class 55 Rating, Add</i>	12,031.35	
<i>For Class 56 Rating, Add</i>	15,934.63	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,015.95	2,910.41
<i>For Class 52 Rating, Deduct</i>	-6,006.69	
<i>For Class 54 Rating, Add</i>	8,243.85	
<i>For Class 55 Rating, Add</i>	12,283.02	
<i>For Class 56 Rating, Add</i>	16,267.59	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,136.72	2,914.62
<i>For Class 52 Rating, Deduct</i>	-6,129.27	
<i>For Class 54 Rating, Add</i>	8,411.09	
<i>For Class 55 Rating, Add</i>	12,531.69	
<i>For Class 56 Rating, Add</i>	16,596.57	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,268.73	2,918.81
<i>For Class 52 Rating, Deduct</i>	-6,253.09	
<i>For Class 54 Rating, Add</i>	8,580.01	
<i>For Class 55 Rating, Add</i>	12,782.86	
<i>For Class 56 Rating, Add</i>	16,928.86	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,566.90	3,473.18
<i>For Class 52 Rating, Deduct</i>	-2,123.50	
<i>For Class 54 Rating, Add</i>	2,958.83	
<i>For Class 55 Rating, Add</i>	4,431.20	
<i>For Class 56 Rating, Add</i>	5,884.28	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,215.67	3,477.38
<i>For Class 52 Rating, Deduct</i>	-2,304.16	
<i>For Class 54 Rating, Add</i>	3,205.26	
<i>For Class 55 Rating, Add</i>	4,797.61	
<i>For Class 56 Rating, Add</i>	6,369.02	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,862.20	3,481.58
<i>For Class 52 Rating, Deduct</i>	-2,484.58	
<i>For Class 54 Rating, Add</i>	3,451.36	
<i>For Class 55 Rating, Add</i>	5,163.52	
<i>For Class 56 Rating, Add</i>	6,853.09	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,522.21	3,485.78
<i>For Class 52 Rating, Deduct</i>	-2,666.48	
<i>For Class 54 Rating, Add</i>	3,699.49	
<i>For Class 55 Rating, Add</i>	5,532.44	
<i>For Class 56 Rating, Add</i>	7,341.15	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,170.98	3,489.98
<i>For Class 52 Rating, Deduct</i>	-2,847.15	
<i>For Class 54 Rating, Add</i>	3,945.93	
<i>For Class 55 Rating, Add</i>	5,898.85	
<i>For Class 56 Rating, Add</i>	7,825.89	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,819.76	3,494.18
<i>For Class 52 Rating, Deduct</i>	-3,027.81	
<i>For Class 54 Rating, Add</i>	4,192.36	
<i>For Class 55 Rating, Add</i>	6,265.26	
<i>For Class 56 Rating, Add</i>	8,310.63	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,477.51	3,498.37
<i>For Class 52 Rating, Deduct</i>	-3,209.46	
<i>For Class 54 Rating, Add</i>	4,440.15	
<i>For Class 55 Rating, Add</i>	6,633.67	
<i>For Class 56 Rating, Add</i>	8,798.02	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,128.54	3,502.58
<i>For Class 52 Rating, Deduct</i>	-3,390.38	
<i>For Class 54 Rating, Add</i>	4,686.92	
<i>For Class 55 Rating, Add</i>	7,000.58	
<i>For Class 56 Rating, Add</i>	9,283.42	
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,775.07	3,506.77
<i>For Class 52 Rating, Deduct</i>	-3,570.79	
<i>For Class 54 Rating, Add</i>	4,933.03	
<i>For Class 55 Rating, Add</i>	7,366.49	
<i>For Class 56 Rating, Add</i>	9,767.50	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,435.07	3,510.98
<i>For Class 52 Rating, Deduct</i>	-3,752.70	
<i>For Class 54 Rating, Add</i>	5,181.15	
<i>For Class 55 Rating, Add</i>	7,735.41	
<i>For Class 56 Rating, Add</i>	10,255.55	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,083.85	3,515.18
<i>For Class 52 Rating, Deduct</i>	-3,933.36	
<i>For Class 54 Rating, Add</i>	5,427.59	
<i>For Class 55 Rating, Add</i>	8,101.82	
<i>For Class 56 Rating, Add</i>	10,740.29	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,743.86	3,519.38
			<i>For Class 52 Rating, Deduct</i>	-4,115.26	
			<i>For Class 54 Rating, Add</i>	5,675.71	
			<i>For Class 55 Rating, Add</i>	8,470.74	
			<i>For Class 56 Rating, Add</i>	11,228.35	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,390.38	3,523.58
			<i>For Class 52 Rating, Deduct</i>	-4,295.68	
			<i>For Class 54 Rating, Add</i>	5,921.81	
			<i>For Class 55 Rating, Add</i>	8,836.64	
			<i>For Class 56 Rating, Add</i>	11,712.43	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,039.16	3,527.77
			<i>For Class 52 Rating, Deduct</i>	-4,476.34	
			<i>For Class 54 Rating, Add</i>	6,168.25	
			<i>For Class 55 Rating, Add</i>	9,203.05	
			<i>For Class 56 Rating, Add</i>	12,197.17	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,699.17	3,531.98
			<i>For Class 52 Rating, Deduct</i>	-4,658.25	
			<i>For Class 54 Rating, Add</i>	6,416.37	
			<i>For Class 55 Rating, Add</i>	9,571.97	
			<i>For Class 56 Rating, Add</i>	12,685.22	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,347.94	3,536.17
			<i>For Class 52 Rating, Deduct</i>	-4,838.91	
			<i>For Class 54 Rating, Add</i>	6,662.81	
			<i>For Class 55 Rating, Add</i>	9,938.38	
			<i>For Class 56 Rating, Add</i>	13,169.96	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,994.47	3,540.38
			<i>For Class 52 Rating, Deduct</i>	-5,019.33	
			<i>For Class 54 Rating, Add</i>	6,908.91	
			<i>For Class 55 Rating, Add</i>	10,304.29	
			<i>For Class 56 Rating, Add</i>	13,654.04	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,654.48	3,544.57
			<i>For Class 52 Rating, Deduct</i>	-5,201.23	
			<i>For Class 54 Rating, Add</i>	7,157.03	
			<i>For Class 55 Rating, Add</i>	10,673.21	
			<i>For Class 56 Rating, Add</i>	14,142.09	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,303.25	3,548.78
			<i>For Class 52 Rating, Deduct</i>	-5,381.90	
			<i>For Class 54 Rating, Add</i>	7,403.47	
			<i>For Class 55 Rating, Add</i>	11,039.62	
			<i>For Class 56 Rating, Add</i>	14,626.83	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,949.78	3,552.97
			<i>For Class 52 Rating, Deduct</i>	-5,562.31	
			<i>For Class 54 Rating, Add</i>	7,649.57	
			<i>For Class 55 Rating, Add</i>	11,405.52	
			<i>For Class 56 Rating, Add</i>	15,110.91	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,609.79	3,557.17
			<i>For Class 52 Rating, Deduct</i>	-5,744.21	
			<i>For Class 54 Rating, Add</i>	7,897.70	
			<i>For Class 55 Rating, Add</i>	11,774.44	
			<i>For Class 56 Rating, Add</i>	15,598.97	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,260.80	3,561.38
			<i>For Class 52 Rating, Deduct</i>	-5,925.13	
			<i>For Class 54 Rating, Add</i>	8,144.47	
			<i>For Class 55 Rating, Add</i>	12,141.35	
			<i>For Class 56 Rating, Add</i>	16,084.37	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,907.34	3,565.57
			<i>For Class 52 Rating, Deduct</i>	-6,105.54	
			<i>For Class 54 Rating, Add</i>	8,390.57	
			<i>For Class 55 Rating, Add</i>	12,507.26	
			<i>For Class 56 Rating, Add</i>	16,568.45	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,567.34	3,569.78
			<i>For Class 52 Rating, Deduct</i>	-6,287.44	
			<i>For Class 54 Rating, Add</i>	8,638.69	
			<i>For Class 55 Rating, Add</i>	12,876.18	
			<i>For Class 56 Rating, Add</i>	17,056.50	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,216.11	3,573.97
			<i>For Class 52 Rating, Deduct</i>	-6,468.11	
			<i>For Class 54 Rating, Add</i>	8,885.13	
			<i>For Class 55 Rating, Add</i>	13,242.59	
			<i>For Class 56 Rating, Add</i>	17,541.24	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,862.65	3,578.18
			<i>For Class 52 Rating, Deduct</i>	-6,648.53	
			<i>For Class 54 Rating, Add</i>	9,131.23	
			<i>For Class 55 Rating, Add</i>	13,608.50	
			<i>For Class 56 Rating, Add</i>	18,025.32	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,522.65	3,582.37
			<i>For Class 52 Rating, Deduct</i>	-6,830.43	
			<i>For Class 54 Rating, Add</i>	9,379.36	
			<i>For Class 55 Rating, Add</i>	13,977.41	
			<i>For Class 56 Rating, Add</i>	18,513.37	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,171.42	3,586.57
			<i>For Class 52 Rating, Deduct</i>	-7,011.09	
			<i>For Class 54 Rating, Add</i>	9,625.79	
			<i>For Class 55 Rating, Add</i>	14,343.82	
			<i>For Class 56 Rating, Add</i>	18,998.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,617.99	3,590.77
For Class 52 Rating, Deduct	-7,169.52	
For Class 54 Rating, Add	9,841.90	
For Class 55 Rating, Add	14,665.14	
For Class 56 Rating, Add	19,423.20	
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,480.21	3,594.97
For Class 52 Rating, Deduct	-7,373.66	
For Class 54 Rating, Add	10,120.36	
For Class 55 Rating, Add	15,079.15	
For Class 56 Rating, Add	19,970.91	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,126.74	3,599.17
For Class 52 Rating, Deduct	-7,554.08	
For Class 54 Rating, Add	10,366.46	
For Class 55 Rating, Add	15,445.06	
For Class 56 Rating, Add	20,454.98	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,788.99	3,603.37
For Class 52 Rating, Deduct	-7,736.23	
For Class 54 Rating, Add	10,614.92	
For Class 55 Rating, Add	15,814.47	
For Class 56 Rating, Add	20,943.70	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	77,435.51	3,607.57
For Class 52 Rating, Deduct	-7,916.65	
For Class 54 Rating, Add	10,861.02	
For Class 55 Rating, Add	16,180.38	
For Class 56 Rating, Add	21,427.78	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	79,082.04	3,611.77
For Class 52 Rating, Deduct	-8,097.06	
For Class 54 Rating, Add	11,107.12	
For Class 55 Rating, Add	16,546.29	
For Class 56 Rating, Add	21,911.86	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,744.29	3,615.97
For Class 52 Rating, Deduct	-8,279.21	
For Class 54 Rating, Add	11,355.58	
For Class 55 Rating, Add	16,915.71	
For Class 56 Rating, Add	22,400.57	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	82,390.82	3,620.17
For Class 52 Rating, Deduct	-8,459.63	
For Class 54 Rating, Add	11,601.68	
For Class 55 Rating, Add	17,281.62	
For Class 56 Rating, Add	22,884.65	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,039.60	3,624.37
For Class 52 Rating, Deduct	-8,640.29	
For Class 54 Rating, Add	11,848.12	
For Class 55 Rating, Add	17,648.03	
For Class 56 Rating, Add	23,369.39	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	85,699.60	3,628.57
For Class 52 Rating, Deduct	-8,822.19	
For Class 54 Rating, Add	12,096.24	
For Class 55 Rating, Add	18,016.94	
For Class 56 Rating, Add	23,857.44	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	673.14	192.19
For Class 52 Rating, Deduct	-42.02	
For Class 54 Rating, Add	60.79	
For Class 55 Rating, Add	92.17	
For Class 56 Rating, Add	123.16	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	736.64	195.54
For Class 52 Rating, Deduct	-48.44	
For Class 54 Rating, Add	69.61	
For Class 55 Rating, Add	105.31	
For Class 56 Rating, Add	140.57	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	800.16	198.90
For Class 52 Rating, Deduct	-54.87	
For Class 54 Rating, Add	78.43	
For Class 55 Rating, Add	118.46	
For Class 56 Rating, Add	157.99	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	863.66	202.26
For Class 52 Rating, Deduct	-61.29	
For Class 54 Rating, Add	87.26	
For Class 55 Rating, Add	131.61	
For Class 56 Rating, Add	175.41	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0560	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		927.16	205.62
		<i>For Class 52 Rating, Deduct</i>		-67.72	
		<i>For Class 54 Rating, Add</i>		96.08	
		<i>For Class 55 Rating, Add</i>		144.76	
		<i>For Class 56 Rating, Add</i>		192.82	
40 05 19 00-0561	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		990.67	208.98
		<i>For Class 52 Rating, Deduct</i>		-74.14	
		<i>For Class 54 Rating, Add</i>		104.91	
		<i>For Class 55 Rating, Add</i>		157.91	
		<i>For Class 56 Rating, Add</i>		210.24	
40 05 19 00-0562	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,054.19	212.34
		<i>For Class 52 Rating, Deduct</i>		-80.57	
		<i>For Class 54 Rating, Add</i>		113.73	
		<i>For Class 55 Rating, Add</i>		171.06	
		<i>For Class 56 Rating, Add</i>		227.66	
40 05 19 00-0563	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,117.69	215.70
		<i>For Class 52 Rating, Deduct</i>		-87.00	
		<i>For Class 54 Rating, Add</i>		122.55	
		<i>For Class 55 Rating, Add</i>		184.21	
		<i>For Class 56 Rating, Add</i>		245.07	
40 05 19 00-0564	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,181.19	219.06
		<i>For Class 52 Rating, Deduct</i>		-93.42	
		<i>For Class 54 Rating, Add</i>		131.38	
		<i>For Class 55 Rating, Add</i>		197.36	
		<i>For Class 56 Rating, Add</i>		262.49	
40 05 19 00-0565	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,244.71	222.42
		<i>For Class 52 Rating, Deduct</i>		-99.85	
		<i>For Class 54 Rating, Add</i>		140.20	
		<i>For Class 55 Rating, Add</i>		210.51	
		<i>For Class 56 Rating, Add</i>		279.91	
40 05 19 00-0566	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,308.21	225.78
		<i>For Class 52 Rating, Deduct</i>		-106.27	
		<i>For Class 54 Rating, Add</i>		149.02	
		<i>For Class 55 Rating, Add</i>		223.65	
		<i>For Class 56 Rating, Add</i>		297.32	
40 05 19 00-0567	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,371.72	229.14
		<i>For Class 52 Rating, Deduct</i>		-112.70	
		<i>For Class 54 Rating, Add</i>		157.85	
		<i>For Class 55 Rating, Add</i>		236.80	
		<i>For Class 56 Rating, Add</i>		314.74	
40 05 19 00-0568	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,435.22	232.50
		<i>For Class 52 Rating, Deduct</i>		-119.13	
		<i>For Class 54 Rating, Add</i>		166.67	
		<i>For Class 55 Rating, Add</i>		249.95	
		<i>For Class 56 Rating, Add</i>		332.15	
40 05 19 00-0569	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,498.73	235.85
		<i>For Class 52 Rating, Deduct</i>		-125.55	
		<i>For Class 54 Rating, Add</i>		175.49	
		<i>For Class 55 Rating, Add</i>		263.10	
		<i>For Class 56 Rating, Add</i>		349.57	
40 05 19 00-0570	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,562.24	239.22
		<i>For Class 52 Rating, Deduct</i>		-131.98	
		<i>For Class 54 Rating, Add</i>		184.32	
		<i>For Class 55 Rating, Add</i>		276.25	
		<i>For Class 56 Rating, Add</i>		366.99	
40 05 19 00-0571	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,625.75	242.58
		<i>For Class 52 Rating, Deduct</i>		-138.40	
		<i>For Class 54 Rating, Add</i>		193.14	
		<i>For Class 55 Rating, Add</i>		289.40	
		<i>For Class 56 Rating, Add</i>		384.40	
40 05 19 00-0572	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,689.26	245.94
		<i>For Class 52 Rating, Deduct</i>		-144.83	
		<i>For Class 54 Rating, Add</i>		201.96	
		<i>For Class 55 Rating, Add</i>		302.55	
		<i>For Class 56 Rating, Add</i>		401.82	
40 05 19 00-0573	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,752.76	249.30
		<i>For Class 52 Rating, Deduct</i>		-151.25	
		<i>For Class 54 Rating, Add</i>		210.79	
		<i>For Class 55 Rating, Add</i>		315.70	
		<i>For Class 56 Rating, Add</i>		419.23	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0574 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,816.27	252.66
<i>For Class 52 Rating, Deduct</i>	-157.68	
<i>For Class 54 Rating, Add</i>	219.61	
<i>For Class 55 Rating, Add</i>	328.85	
<i>For Class 56 Rating, Add</i>	436.65	
40 05 19 00-0575 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,879.78	256.01
<i>For Class 52 Rating, Deduct</i>	-164.11	
<i>For Class 54 Rating, Add</i>	228.44	
<i>For Class 55 Rating, Add</i>	342.00	
<i>For Class 56 Rating, Add</i>	454.07	
40 05 19 00-0576 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,943.29	259.37
<i>For Class 52 Rating, Deduct</i>	-170.53	
<i>For Class 54 Rating, Add</i>	237.26	
<i>For Class 55 Rating, Add</i>	355.15	
<i>For Class 56 Rating, Add</i>	471.48	
40 05 19 00-0577 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,006.79	262.74
<i>For Class 52 Rating, Deduct</i>	-176.96	
<i>For Class 54 Rating, Add</i>	246.08	
<i>For Class 55 Rating, Add</i>	368.30	
<i>For Class 56 Rating, Add</i>	488.90	
40 05 19 00-0578 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,070.30	266.10
<i>For Class 52 Rating, Deduct</i>	-183.38	
<i>For Class 54 Rating, Add</i>	254.91	
<i>For Class 55 Rating, Add</i>	381.45	
<i>For Class 56 Rating, Add</i>	506.32	
40 05 19 00-0579 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,133.80	269.46
<i>For Class 52 Rating, Deduct</i>	-189.81	
<i>For Class 54 Rating, Add</i>	263.73	
<i>For Class 55 Rating, Add</i>	394.59	
<i>For Class 56 Rating, Add</i>	523.73	
40 05 19 00-0580 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,197.32	272.82
<i>For Class 52 Rating, Deduct</i>	-196.24	
<i>For Class 54 Rating, Add</i>	272.55	
<i>For Class 55 Rating, Add</i>	407.74	
<i>For Class 56 Rating, Add</i>	541.15	
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,260.83	276.18
<i>For Class 52 Rating, Deduct</i>	-202.66	
<i>For Class 54 Rating, Add</i>	281.38	
<i>For Class 55 Rating, Add</i>	420.89	
<i>For Class 56 Rating, Add</i>	558.57	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,324.32	279.53
<i>For Class 52 Rating, Deduct</i>	-209.09	
<i>For Class 54 Rating, Add</i>	290.20	
<i>For Class 55 Rating, Add</i>	434.04	
<i>For Class 56 Rating, Add</i>	575.98	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.84	282.89
<i>For Class 52 Rating, Deduct</i>	-215.51	
<i>For Class 54 Rating, Add</i>	299.03	
<i>For Class 55 Rating, Add</i>	447.19	
<i>For Class 56 Rating, Add</i>	593.40	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,451.35	286.26
<i>For Class 52 Rating, Deduct</i>	-221.94	
<i>For Class 54 Rating, Add</i>	307.85	
<i>For Class 55 Rating, Add</i>	460.34	
<i>For Class 56 Rating, Add</i>	610.81	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,514.85	289.62
<i>For Class 52 Rating, Deduct</i>	-228.36	
<i>For Class 54 Rating, Add</i>	316.67	
<i>For Class 55 Rating, Add</i>	473.49	
<i>For Class 56 Rating, Add</i>	628.23	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.35	292.98
<i>For Class 52 Rating, Deduct</i>	-234.79	
<i>For Class 54 Rating, Add</i>	325.50	
<i>For Class 55 Rating, Add</i>	486.64	
<i>For Class 56 Rating, Add</i>	645.65	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,641.87	296.34
<i>For Class 52 Rating, Deduct</i>	-241.22	
<i>For Class 54 Rating, Add</i>	334.32	
<i>For Class 55 Rating, Add</i>	499.79	
<i>For Class 56 Rating, Add</i>	663.06	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0588	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,705.37	299.69
		<i>For Class 52 Rating, Deduct</i>		-247.64	
		<i>For Class 54 Rating, Add</i>		343.14	
		<i>For Class 55 Rating, Add</i>		512.94	
		<i>For Class 56 Rating, Add</i>		680.48	
40 05 19 00-0589	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,768.88	303.05
		<i>For Class 52 Rating, Deduct</i>		-254.07	
		<i>For Class 54 Rating, Add</i>		351.97	
		<i>For Class 55 Rating, Add</i>		526.09	
		<i>For Class 56 Rating, Add</i>		697.89	
40 05 19 00-0590	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,832.40	306.41
		<i>For Class 52 Rating, Deduct</i>		-260.49	
		<i>For Class 54 Rating, Add</i>		360.79	
		<i>For Class 55 Rating, Add</i>		539.24	
		<i>For Class 56 Rating, Add</i>		715.31	
40 05 19 00-0591	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,895.89	309.78
		<i>For Class 52 Rating, Deduct</i>		-266.92	
		<i>For Class 54 Rating, Add</i>		369.61	
		<i>For Class 55 Rating, Add</i>		552.38	
		<i>For Class 56 Rating, Add</i>		732.73	
40 05 19 00-0592	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,959.40	313.14
		<i>For Class 52 Rating, Deduct</i>		-273.35	
		<i>For Class 54 Rating, Add</i>		378.44	
		<i>For Class 55 Rating, Add</i>		565.53	
		<i>For Class 56 Rating, Add</i>		750.14	
40 05 19 00-0593	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,022.91	316.50
		<i>For Class 52 Rating, Deduct</i>		-279.77	
		<i>For Class 54 Rating, Add</i>		387.26	
		<i>For Class 55 Rating, Add</i>		578.68	
		<i>For Class 56 Rating, Add</i>		767.56	
40 05 19 00-0594	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,086.42	319.85
		<i>For Class 52 Rating, Deduct</i>		-286.20	
		<i>For Class 54 Rating, Add</i>		396.08	
		<i>For Class 55 Rating, Add</i>		591.83	
		<i>For Class 56 Rating, Add</i>		784.97	

40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0594)

40 05 19 00-0596	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		840.59	241.90
		<i>For Class 52 Rating, Deduct</i>		-52.15	
		<i>For Class 54 Rating, Add</i>		75.51	
		<i>For Class 55 Rating, Add</i>		114.51	
		<i>For Class 56 Rating, Add</i>		153.05	
40 05 19 00-0597	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		917.58	245.26
		<i>For Class 52 Rating, Deduct</i>		-60.06	
		<i>For Class 54 Rating, Add</i>		86.35	
		<i>For Class 55 Rating, Add</i>		130.67	
		<i>For Class 56 Rating, Add</i>		174.44	
40 05 19 00-0598	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		994.58	248.63
		<i>For Class 52 Rating, Deduct</i>		-67.97	
		<i>For Class 54 Rating, Add</i>		97.20	
		<i>For Class 55 Rating, Add</i>		146.83	
		<i>For Class 56 Rating, Add</i>		195.83	
40 05 19 00-0599	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,071.57	251.99
		<i>For Class 52 Rating, Deduct</i>		-75.87	
		<i>For Class 54 Rating, Add</i>		108.05	
		<i>For Class 55 Rating, Add</i>		162.98	
		<i>For Class 56 Rating, Add</i>		217.23	
40 05 19 00-0600	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,148.55	255.34
		<i>For Class 52 Rating, Deduct</i>		-83.78	
		<i>For Class 54 Rating, Add</i>		118.89	
		<i>For Class 55 Rating, Add</i>		179.14	
		<i>For Class 56 Rating, Add</i>		238.62	
40 05 19 00-0601	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,225.53	258.70
		<i>For Class 52 Rating, Deduct</i>		-91.69	
		<i>For Class 54 Rating, Add</i>		129.74	
		<i>For Class 55 Rating, Add</i>		195.29	
		<i>For Class 56 Rating, Add</i>		260.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,302.53	262.06
<i>For Class 52 Rating, Deduct</i>	-99.60	
<i>For Class 54 Rating, Add</i>	140.58	
<i>For Class 55 Rating, Add</i>	211.45	
<i>For Class 56 Rating, Add</i>	281.41	
40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.52	265.42
<i>For Class 52 Rating, Deduct</i>	-107.51	
<i>For Class 54 Rating, Add</i>	151.43	
<i>For Class 55 Rating, Add</i>	227.60	
<i>For Class 56 Rating, Add</i>	302.80	
40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,456.50	268.78
<i>For Class 52 Rating, Deduct</i>	-115.42	
<i>For Class 54 Rating, Add</i>	162.28	
<i>For Class 55 Rating, Add</i>	243.76	
<i>For Class 56 Rating, Add</i>	324.19	
40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,533.48	272.15
<i>For Class 52 Rating, Deduct</i>	-123.33	
<i>For Class 54 Rating, Add</i>	173.12	
<i>For Class 55 Rating, Add</i>	259.91	
<i>For Class 56 Rating, Add</i>	345.58	
40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,610.48	275.50
<i>For Class 52 Rating, Deduct</i>	-131.24	
<i>For Class 54 Rating, Add</i>	183.97	
<i>For Class 55 Rating, Add</i>	276.07	
<i>For Class 56 Rating, Add</i>	366.98	
40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,687.47	278.86
<i>For Class 52 Rating, Deduct</i>	-139.14	
<i>For Class 54 Rating, Add</i>	194.81	
<i>For Class 55 Rating, Add</i>	292.22	
<i>For Class 56 Rating, Add</i>	388.37	
40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.46	282.22
<i>For Class 52 Rating, Deduct</i>	-147.05	
<i>For Class 54 Rating, Add</i>	205.66	
<i>For Class 55 Rating, Add</i>	308.38	
<i>For Class 56 Rating, Add</i>	409.76	
40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,841.44	285.58
<i>For Class 52 Rating, Deduct</i>	-154.96	
<i>For Class 54 Rating, Add</i>	216.50	
<i>For Class 55 Rating, Add</i>	324.53	
<i>For Class 56 Rating, Add</i>	431.16	
40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,918.43	288.94
<i>For Class 52 Rating, Deduct</i>	-162.87	
<i>For Class 54 Rating, Add</i>	227.35	
<i>For Class 55 Rating, Add</i>	340.69	
<i>For Class 56 Rating, Add</i>	452.55	
40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,995.42	292.30
<i>For Class 52 Rating, Deduct</i>	-170.78	
<i>For Class 54 Rating, Add</i>	238.20	
<i>For Class 55 Rating, Add</i>	356.85	
<i>For Class 56 Rating, Add</i>	473.94	
40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,072.41	295.67
<i>For Class 52 Rating, Deduct</i>	-178.69	
<i>For Class 54 Rating, Add</i>	249.04	
<i>For Class 55 Rating, Add</i>	373.00	
<i>For Class 56 Rating, Add</i>	495.34	
40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,149.40	299.02
<i>For Class 52 Rating, Deduct</i>	-186.60	
<i>For Class 54 Rating, Add</i>	259.89	
<i>For Class 55 Rating, Add</i>	389.16	
<i>For Class 56 Rating, Add</i>	516.73	
40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,226.38	302.38
<i>For Class 52 Rating, Deduct</i>	-194.51	
<i>For Class 54 Rating, Add</i>	270.73	
<i>For Class 55 Rating, Add</i>	405.31	
<i>For Class 56 Rating, Add</i>	538.12	
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,303.37	305.74
<i>For Class 52 Rating, Deduct</i>	-202.41	
<i>For Class 54 Rating, Add</i>	281.58	
<i>For Class 55 Rating, Add</i>	421.47	
<i>For Class 56 Rating, Add</i>	559.51	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,380.37	309.10
		<i>For Class 52 Rating, Deduct</i>		-210.32	
		<i>For Class 54 Rating, Add</i>		292.42	
		<i>For Class 55 Rating, Add</i>		437.62	
		<i>For Class 56 Rating, Add</i>		580.91	
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,457.35	312.46
		<i>For Class 52 Rating, Deduct</i>		-218.23	
		<i>For Class 54 Rating, Add</i>		303.27	
		<i>For Class 55 Rating, Add</i>		453.78	
		<i>For Class 56 Rating, Add</i>		602.30	
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,534.33	315.82
		<i>For Class 52 Rating, Deduct</i>		-226.14	
		<i>For Class 54 Rating, Add</i>		314.12	
		<i>For Class 55 Rating, Add</i>		469.93	
		<i>For Class 56 Rating, Add</i>		623.69	
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,611.32	319.18
		<i>For Class 52 Rating, Deduct</i>		-234.05	
		<i>For Class 54 Rating, Add</i>		324.96	
		<i>For Class 55 Rating, Add</i>		486.09	
		<i>For Class 56 Rating, Add</i>		645.09	
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,688.32	322.54
		<i>For Class 52 Rating, Deduct</i>		-241.96	
		<i>For Class 54 Rating, Add</i>		335.81	
		<i>For Class 55 Rating, Add</i>		502.24	
		<i>For Class 56 Rating, Add</i>		666.48	
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,765.30	325.90
		<i>For Class 52 Rating, Deduct</i>		-249.87	
		<i>For Class 54 Rating, Add</i>		346.65	
		<i>For Class 55 Rating, Add</i>		518.40	
		<i>For Class 56 Rating, Add</i>		687.87	
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,842.29	329.26
		<i>For Class 52 Rating, Deduct</i>		-257.78	
		<i>For Class 54 Rating, Add</i>		357.50	
		<i>For Class 55 Rating, Add</i>		534.55	
		<i>For Class 56 Rating, Add</i>		709.27	
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,919.27	332.62
		<i>For Class 52 Rating, Deduct</i>		-265.68	
		<i>For Class 54 Rating, Add</i>		368.34	
		<i>For Class 55 Rating, Add</i>		550.71	
		<i>For Class 56 Rating, Add</i>		730.66	
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,996.27	335.98
		<i>For Class 52 Rating, Deduct</i>		-273.59	
		<i>For Class 54 Rating, Add</i>		379.19	
		<i>For Class 55 Rating, Add</i>		566.87	
		<i>For Class 56 Rating, Add</i>		752.05	
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,073.26	339.33
		<i>For Class 52 Rating, Deduct</i>		-281.50	
		<i>For Class 54 Rating, Add</i>		390.04	
		<i>For Class 55 Rating, Add</i>		583.02	
		<i>For Class 56 Rating, Add</i>		773.45	
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,150.24	342.70
		<i>For Class 52 Rating, Deduct</i>		-289.41	
		<i>For Class 54 Rating, Add</i>		400.88	
		<i>For Class 55 Rating, Add</i>		599.17	
		<i>For Class 56 Rating, Add</i>		794.84	
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,227.23	346.06
		<i>For Class 52 Rating, Deduct</i>		-297.32	
		<i>For Class 54 Rating, Add</i>		411.73	
		<i>For Class 55 Rating, Add</i>		615.33	
		<i>For Class 56 Rating, Add</i>		816.23	
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,304.22	349.42
		<i>For Class 52 Rating, Deduct</i>		-305.23	
		<i>For Class 54 Rating, Add</i>		422.57	
		<i>For Class 55 Rating, Add</i>		631.49	
		<i>For Class 56 Rating, Add</i>		837.63	
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,381.21	352.78
		<i>For Class 52 Rating, Deduct</i>		-313.14	
		<i>For Class 54 Rating, Add</i>		433.42	
		<i>For Class 55 Rating, Add</i>		647.64	
		<i>For Class 56 Rating, Add</i>		859.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,458.19	356.14
For Class 52 Rating, Deduct	-321.04	
For Class 54 Rating, Add	444.26	
For Class 55 Rating, Add	663.80	
For Class 56 Rating, Add	880.41	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,535.19	359.49
For Class 52 Rating, Deduct	-328.95	
For Class 54 Rating, Add	455.11	
For Class 55 Rating, Add	679.95	
For Class 56 Rating, Add	901.80	
40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,612.17	362.85
For Class 52 Rating, Deduct	-336.86	
For Class 54 Rating, Add	465.96	
For Class 55 Rating, Add	696.11	
For Class 56 Rating, Add	923.20	
40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,689.16	366.22
For Class 52 Rating, Deduct	-344.77	
For Class 54 Rating, Add	476.80	
For Class 55 Rating, Add	712.26	
For Class 56 Rating, Add	944.59	
40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,766.15	369.58
For Class 52 Rating, Deduct	-352.68	
For Class 54 Rating, Add	487.65	
For Class 55 Rating, Add	728.42	
For Class 56 Rating, Add	965.98	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,160.35	309.10
For Class 52 Rating, Deduct	-76.12	
For Class 54 Rating, Add	109.42	
For Class 55 Rating, Add	165.56	
For Class 56 Rating, Add	221.00	
40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,264.30	312.46
For Class 52 Rating, Deduct	-87.00	
For Class 54 Rating, Add	124.31	
For Class 55 Rating, Add	187.73	
For Class 56 Rating, Add	250.35	
40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,368.24	315.82
For Class 52 Rating, Deduct	-97.87	
For Class 54 Rating, Add	139.20	
For Class 55 Rating, Add	209.89	
For Class 56 Rating, Add	279.70	
40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,472.19	319.18
For Class 52 Rating, Deduct	-108.74	
For Class 54 Rating, Add	154.09	
For Class 55 Rating, Add	232.06	
For Class 56 Rating, Add	309.04	
40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,576.15	322.54
For Class 52 Rating, Deduct	-119.62	
For Class 54 Rating, Add	168.98	
For Class 55 Rating, Add	254.23	
For Class 56 Rating, Add	338.39	
40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,680.10	325.90
For Class 52 Rating, Deduct	-130.49	
For Class 54 Rating, Add	183.87	
For Class 55 Rating, Add	276.40	
For Class 56 Rating, Add	367.74	
40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,784.05	329.26
For Class 52 Rating, Deduct	-141.37	
For Class 54 Rating, Add	198.76	
For Class 55 Rating, Add	298.57	
For Class 56 Rating, Add	397.08	
40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,887.99	332.62
For Class 52 Rating, Deduct	-152.24	
For Class 54 Rating, Add	213.65	
For Class 55 Rating, Add	320.73	
For Class 56 Rating, Add	426.43	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,991.95	335.98
		<i>For Class 52 Rating, Deduct</i>		-163.12	
		<i>For Class 54 Rating, Add</i>		228.54	
		<i>For Class 55 Rating, Add</i>		342.90	
		<i>For Class 56 Rating, Add</i>		455.78	
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,095.90	339.33
		<i>For Class 52 Rating, Deduct</i>		-173.99	
		<i>For Class 54 Rating, Add</i>		243.43	
		<i>For Class 55 Rating, Add</i>		365.07	
		<i>For Class 56 Rating, Add</i>		485.13	
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,199.85	342.70
		<i>For Class 52 Rating, Deduct</i>		-184.87	
		<i>For Class 54 Rating, Add</i>		258.32	
		<i>For Class 55 Rating, Add</i>		387.24	
		<i>For Class 56 Rating, Add</i>		514.47	
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,303.80	346.06
		<i>For Class 52 Rating, Deduct</i>		-195.74	
		<i>For Class 54 Rating, Add</i>		273.21	
		<i>For Class 55 Rating, Add</i>		409.41	
		<i>For Class 56 Rating, Add</i>		543.82	
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,407.74	349.42
		<i>For Class 52 Rating, Deduct</i>		-206.62	
		<i>For Class 54 Rating, Add</i>		288.10	
		<i>For Class 55 Rating, Add</i>		431.57	
		<i>For Class 56 Rating, Add</i>		573.16	
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,511.69	352.78
		<i>For Class 52 Rating, Deduct</i>		-217.49	
		<i>For Class 54 Rating, Add</i>		302.99	
		<i>For Class 55 Rating, Add</i>		453.74	
		<i>For Class 56 Rating, Add</i>		602.51	
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,615.64	356.14
		<i>For Class 52 Rating, Deduct</i>		-228.36	
		<i>For Class 54 Rating, Add</i>		317.88	
		<i>For Class 55 Rating, Add</i>		475.91	
		<i>For Class 56 Rating, Add</i>		631.86	
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,719.60	359.49
		<i>For Class 52 Rating, Deduct</i>		-239.24	
		<i>For Class 54 Rating, Add</i>		332.77	
		<i>For Class 55 Rating, Add</i>		498.08	
		<i>For Class 56 Rating, Add</i>		661.20	
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,823.54	362.85
		<i>For Class 52 Rating, Deduct</i>		-250.11	
		<i>For Class 54 Rating, Add</i>		347.66	
		<i>For Class 55 Rating, Add</i>		520.24	
		<i>For Class 56 Rating, Add</i>		690.55	
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,927.49	366.22
		<i>For Class 52 Rating, Deduct</i>		-260.99	
		<i>For Class 54 Rating, Add</i>		362.55	
		<i>For Class 55 Rating, Add</i>		542.41	
		<i>For Class 56 Rating, Add</i>		719.90	
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,031.45	369.58
		<i>For Class 52 Rating, Deduct</i>		-271.86	
		<i>For Class 54 Rating, Add</i>		377.44	
		<i>For Class 55 Rating, Add</i>		564.58	
		<i>For Class 56 Rating, Add</i>		749.25	
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,135.40	372.94
		<i>For Class 52 Rating, Deduct</i>		-282.74	
		<i>For Class 54 Rating, Add</i>		392.33	
		<i>For Class 55 Rating, Add</i>		586.75	
		<i>For Class 56 Rating, Add</i>		778.59	
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,239.34	376.30
		<i>For Class 52 Rating, Deduct</i>		-293.61	
		<i>For Class 54 Rating, Add</i>		407.22	
		<i>For Class 55 Rating, Add</i>		608.91	
		<i>For Class 56 Rating, Add</i>		807.94	
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,343.29	379.65
		<i>For Class 52 Rating, Deduct</i>		-304.49	
		<i>For Class 54 Rating, Add</i>		422.11	
		<i>For Class 55 Rating, Add</i>		631.08	
		<i>For Class 56 Rating, Add</i>		837.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,447.25	383.01
For Class 52 Rating, Deduct	-315.36	
For Class 54 Rating, Add	437.00	
For Class 55 Rating, Add	653.25	
For Class 56 Rating, Add	866.63	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,551.20	386.37
For Class 52 Rating, Deduct	-326.24	
For Class 54 Rating, Add	451.89	
For Class 55 Rating, Add	675.42	
For Class 56 Rating, Add	895.98	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,655.15	389.74
For Class 52 Rating, Deduct	-337.11	
For Class 54 Rating, Add	466.78	
For Class 55 Rating, Add	697.59	
For Class 56 Rating, Add	925.33	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,759.08	393.10
For Class 52 Rating, Deduct	-347.98	
For Class 54 Rating, Add	481.67	
For Class 55 Rating, Add	719.75	
For Class 56 Rating, Add	954.67	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.04	396.46
For Class 52 Rating, Deduct	-358.86	
For Class 54 Rating, Add	496.56	
For Class 55 Rating, Add	741.92	
For Class 56 Rating, Add	984.02	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,966.99	399.81
For Class 52 Rating, Deduct	-369.73	
For Class 54 Rating, Add	511.45	
For Class 55 Rating, Add	764.09	
For Class 56 Rating, Add	1,013.37	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,070.94	403.17
For Class 52 Rating, Deduct	-380.61	
For Class 54 Rating, Add	526.34	
For Class 55 Rating, Add	786.26	
For Class 56 Rating, Add	1,042.71	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,174.89	406.53
For Class 52 Rating, Deduct	-391.48	
For Class 54 Rating, Add	541.23	
For Class 55 Rating, Add	808.42	
For Class 56 Rating, Add	1,072.06	
40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,278.84	409.89
For Class 52 Rating, Deduct	-402.36	
For Class 54 Rating, Add	556.12	
For Class 55 Rating, Add	830.59	
For Class 56 Rating, Add	1,101.41	
40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,382.79	413.26
For Class 52 Rating, Deduct	-413.23	
For Class 54 Rating, Add	571.01	
For Class 55 Rating, Add	852.76	
For Class 56 Rating, Add	1,130.75	
40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,486.74	416.62
For Class 52 Rating, Deduct	-424.11	
For Class 54 Rating, Add	585.90	
For Class 55 Rating, Add	874.93	
For Class 56 Rating, Add	1,160.10	
40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,590.70	419.97
For Class 52 Rating, Deduct	-434.98	
For Class 54 Rating, Add	600.79	
For Class 55 Rating, Add	897.10	
For Class 56 Rating, Add	1,189.45	
40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,694.64	423.33
For Class 52 Rating, Deduct	-445.86	
For Class 54 Rating, Add	615.68	
For Class 55 Rating, Add	919.26	
For Class 56 Rating, Add	1,218.79	
40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,798.59	426.69
For Class 52 Rating, Deduct	-456.73	
For Class 54 Rating, Add	630.57	
For Class 55 Rating, Add	941.43	
For Class 56 Rating, Add	1,248.14	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,902.55	430.05
			<i>For Class 52 Rating, Deduct</i>	-467.60	
			<i>For Class 54 Rating, Add</i>	645.46	
			<i>For Class 55 Rating, Add</i>	963.60	
			<i>For Class 56 Rating, Add</i>	1,277.49	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,006.49	433.41
			<i>For Class 52 Rating, Deduct</i>	-478.48	
			<i>For Class 54 Rating, Add</i>	660.35	
			<i>For Class 55 Rating, Add</i>	985.77	
			<i>For Class 56 Rating, Add</i>	1,306.83	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,110.44	436.78
			<i>For Class 52 Rating, Deduct</i>	-489.35	
			<i>For Class 54 Rating, Add</i>	675.24	
			<i>For Class 55 Rating, Add</i>	1,007.93	
			<i>For Class 56 Rating, Add</i>	1,336.18	

40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,455.38	376.30
			<i>For Class 52 Rating, Deduct</i>	-97.38	
			<i>For Class 54 Rating, Add</i>	139.63	
			<i>For Class 55 Rating, Add</i>	211.09	
			<i>For Class 56 Rating, Add</i>	281.67	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,590.78	379.65
			<i>For Class 52 Rating, Deduct</i>	-111.71	
			<i>For Class 54 Rating, Add</i>	159.24	
			<i>For Class 55 Rating, Add</i>	240.27	
			<i>For Class 56 Rating, Add</i>	320.30	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,726.20	383.01
			<i>For Class 52 Rating, Deduct</i>	-126.05	
			<i>For Class 54 Rating, Add</i>	178.84	
			<i>For Class 55 Rating, Add</i>	269.46	
			<i>For Class 56 Rating, Add</i>	358.92	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,861.60	386.37
			<i>For Class 52 Rating, Deduct</i>	-140.38	
			<i>For Class 54 Rating, Add</i>	198.45	
			<i>For Class 55 Rating, Add</i>	298.64	
			<i>For Class 56 Rating, Add</i>	397.55	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,997.01	389.74
			<i>For Class 52 Rating, Deduct</i>	-154.72	
			<i>For Class 54 Rating, Add</i>	218.06	
			<i>For Class 55 Rating, Add</i>	327.82	
			<i>For Class 56 Rating, Add</i>	436.18	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,132.40	393.10
			<i>For Class 52 Rating, Deduct</i>	-169.05	
			<i>For Class 54 Rating, Add</i>	237.67	
			<i>For Class 55 Rating, Add</i>	357.00	
			<i>For Class 56 Rating, Add</i>	474.80	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,267.82	396.46
			<i>For Class 52 Rating, Deduct</i>	-183.38	
			<i>For Class 54 Rating, Add</i>	257.28	
			<i>For Class 55 Rating, Add</i>	386.19	
			<i>For Class 56 Rating, Add</i>	513.43	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,403.22	399.81
			<i>For Class 52 Rating, Deduct</i>	-197.72	
			<i>For Class 54 Rating, Add</i>	276.89	
			<i>For Class 55 Rating, Add</i>	415.37	
			<i>For Class 56 Rating, Add</i>	552.05	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,538.62	403.17
			<i>For Class 52 Rating, Deduct</i>	-212.05	
			<i>For Class 54 Rating, Add</i>	296.49	
			<i>For Class 55 Rating, Add</i>	444.55	
			<i>For Class 56 Rating, Add</i>	590.68	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,674.03	406.53
			<i>For Class 52 Rating, Deduct</i>	-226.39	
			<i>For Class 54 Rating, Add</i>	316.10	
			<i>For Class 55 Rating, Add</i>	473.73	
			<i>For Class 56 Rating, Add</i>	629.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	2,809.43	409.89
For Class 52 Rating, Deduct	-240.72	
For Class 54 Rating, Add	335.71	
For Class 55 Rating, Add	502.91	
For Class 56 Rating, Add	667.93	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	2,944.84	413.26
For Class 52 Rating, Deduct	-255.06	
For Class 54 Rating, Add	355.32	
For Class 55 Rating, Add	532.10	
For Class 56 Rating, Add	706.56	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,080.24	416.62
For Class 52 Rating, Deduct	-269.39	
For Class 54 Rating, Add	374.93	
For Class 55 Rating, Add	561.28	
For Class 56 Rating, Add	745.18	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,215.66	419.97
For Class 52 Rating, Deduct	-283.73	
For Class 54 Rating, Add	394.54	
For Class 55 Rating, Add	590.46	
For Class 56 Rating, Add	783.81	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,351.05	423.33
For Class 52 Rating, Deduct	-298.06	
For Class 54 Rating, Add	414.14	
For Class 55 Rating, Add	619.64	
For Class 56 Rating, Add	822.43	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,486.46	426.69
For Class 52 Rating, Deduct	-312.40	
For Class 54 Rating, Add	433.75	
For Class 55 Rating, Add	648.83	
For Class 56 Rating, Add	861.06	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,621.87	430.05
For Class 52 Rating, Deduct	-326.73	
For Class 54 Rating, Add	453.36	
For Class 55 Rating, Add	678.01	
For Class 56 Rating, Add	899.69	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,757.27	433.41
For Class 52 Rating, Deduct	-341.06	
For Class 54 Rating, Add	472.97	
For Class 55 Rating, Add	707.19	
For Class 56 Rating, Add	938.31	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,892.68	436.78
For Class 52 Rating, Deduct	-355.40	
For Class 54 Rating, Add	492.58	
For Class 55 Rating, Add	736.37	
For Class 56 Rating, Add	976.94	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,028.07	440.13
For Class 52 Rating, Deduct	-369.73	
For Class 54 Rating, Add	512.18	
For Class 55 Rating, Add	765.55	
For Class 56 Rating, Add	1,015.56	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,163.49	443.49
For Class 52 Rating, Deduct	-384.07	
For Class 54 Rating, Add	531.79	
For Class 55 Rating, Add	794.74	
For Class 56 Rating, Add	1,054.19	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,298.89	446.85
For Class 52 Rating, Deduct	-398.40	
For Class 54 Rating, Add	551.40	
For Class 55 Rating, Add	823.92	
For Class 56 Rating, Add	1,092.82	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,434.30	450.21
For Class 52 Rating, Deduct	-412.74	
For Class 54 Rating, Add	571.01	
For Class 55 Rating, Add	853.10	
For Class 56 Rating, Add	1,131.44	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,569.69	453.57
For Class 52 Rating, Deduct	-427.07	
For Class 54 Rating, Add	590.62	
For Class 55 Rating, Add	882.28	
For Class 56 Rating, Add	1,170.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,705.10	456.93
		<i>For Class 52 Rating, Deduct</i>		-441.41	
		<i>For Class 54 Rating, Add</i>		610.22	
		<i>For Class 55 Rating, Add</i>		911.47	
		<i>For Class 56 Rating, Add</i>		1,208.69	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,840.51	460.29
		<i>For Class 52 Rating, Deduct</i>		-455.74	
		<i>For Class 54 Rating, Add</i>		629.83	
		<i>For Class 55 Rating, Add</i>		940.65	
		<i>For Class 56 Rating, Add</i>		1,247.32	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,975.91	463.65
		<i>For Class 52 Rating, Deduct</i>		-470.08	
		<i>For Class 54 Rating, Add</i>		649.44	
		<i>For Class 55 Rating, Add</i>		969.83	
		<i>For Class 56 Rating, Add</i>		1,285.95	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,111.33	467.01
		<i>For Class 52 Rating, Deduct</i>		-484.41	
		<i>For Class 54 Rating, Add</i>		669.05	
		<i>For Class 55 Rating, Add</i>		999.01	
		<i>For Class 56 Rating, Add</i>		1,324.57	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,246.72	470.37
		<i>For Class 52 Rating, Deduct</i>		-498.74	
		<i>For Class 54 Rating, Add</i>		688.66	
		<i>For Class 55 Rating, Add</i>		1,028.20	
		<i>For Class 56 Rating, Add</i>		1,363.20	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,382.13	473.73
		<i>For Class 52 Rating, Deduct</i>		-513.08	
		<i>For Class 54 Rating, Add</i>		708.27	
		<i>For Class 55 Rating, Add</i>		1,057.38	
		<i>For Class 56 Rating, Add</i>		1,401.83	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,517.53	477.09
		<i>For Class 52 Rating, Deduct</i>		-527.41	
		<i>For Class 54 Rating, Add</i>		727.87	
		<i>For Class 55 Rating, Add</i>		1,086.56	
		<i>For Class 56 Rating, Add</i>		1,440.45	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,652.95	480.44
		<i>For Class 52 Rating, Deduct</i>		-541.75	
		<i>For Class 54 Rating, Add</i>		747.48	
		<i>For Class 55 Rating, Add</i>		1,115.74	
		<i>For Class 56 Rating, Add</i>		1,479.08	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,788.34	483.81
		<i>For Class 52 Rating, Deduct</i>		-556.08	
		<i>For Class 54 Rating, Add</i>		767.09	
		<i>For Class 55 Rating, Add</i>		1,144.92	
		<i>For Class 56 Rating, Add</i>		1,517.70	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,923.74	487.17
		<i>For Class 52 Rating, Deduct</i>		-570.42	
		<i>For Class 54 Rating, Add</i>		786.70	
		<i>For Class 55 Rating, Add</i>		1,174.11	
		<i>For Class 56 Rating, Add</i>		1,556.33	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,059.16	490.53
		<i>For Class 52 Rating, Deduct</i>		-584.75	
		<i>For Class 54 Rating, Add</i>		806.31	
		<i>For Class 55 Rating, Add</i>		1,203.29	
		<i>For Class 56 Rating, Add</i>		1,594.96	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,194.56	493.89
		<i>For Class 52 Rating, Deduct</i>		-599.09	
		<i>For Class 54 Rating, Add</i>		825.92	
		<i>For Class 55 Rating, Add</i>		1,232.47	
		<i>For Class 56 Rating, Add</i>		1,633.58	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,329.97	497.25
		<i>For Class 52 Rating, Deduct</i>		-613.42	
		<i>For Class 54 Rating, Add</i>		845.52	
		<i>For Class 55 Rating, Add</i>		1,261.65	
		<i>For Class 56 Rating, Add</i>		1,672.21	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,465.36	500.60
		<i>For Class 52 Rating, Deduct</i>		-627.76	
		<i>For Class 54 Rating, Add</i>		865.13	
		<i>For Class 55 Rating, Add</i>		1,290.84	
		<i>For Class 56 Rating, Add</i>		1,710.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,600.78	503.96
For Class 52 Rating, Deduct	-642.09	
For Class 54 Rating, Add	884.74	
For Class 55 Rating, Add	1,320.02	
For Class 56 Rating, Add	1,749.46	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,885.51	470.37
For Class 52 Rating, Deduct	-129.01	
For Class 54 Rating, Add	184.48	
For Class 55 Rating, Add	278.65	
For Class 56 Rating, Add	371.64	
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.62	473.73
For Class 52 Rating, Deduct	-147.05	
For Class 54 Rating, Add	209.14	
For Class 55 Rating, Add	315.34	
For Class 56 Rating, Add	420.21	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,223.72	477.09
For Class 52 Rating, Deduct	-165.09	
For Class 54 Rating, Add	233.80	
For Class 55 Rating, Add	352.04	
For Class 56 Rating, Add	468.78	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,392.84	480.44
For Class 52 Rating, Deduct	-183.14	
For Class 54 Rating, Add	258.47	
For Class 55 Rating, Add	388.74	
For Class 56 Rating, Add	517.35	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.94	483.81
For Class 52 Rating, Deduct	-201.18	
For Class 54 Rating, Add	283.13	
For Class 55 Rating, Add	425.44	
For Class 56 Rating, Add	565.91	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,731.04	487.17
For Class 52 Rating, Deduct	-219.22	
For Class 54 Rating, Add	307.79	
For Class 55 Rating, Add	462.13	
For Class 56 Rating, Add	614.48	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,900.16	490.53
For Class 52 Rating, Deduct	-237.26	
For Class 54 Rating, Add	332.46	
For Class 55 Rating, Add	498.83	
For Class 56 Rating, Add	663.05	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.26	493.89
For Class 52 Rating, Deduct	-255.30	
For Class 54 Rating, Add	357.12	
For Class 55 Rating, Add	535.53	
For Class 56 Rating, Add	711.62	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,238.37	497.25
For Class 52 Rating, Deduct	-273.35	
For Class 54 Rating, Add	381.78	
For Class 55 Rating, Add	572.23	
For Class 56 Rating, Add	760.19	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,407.47	500.60
For Class 52 Rating, Deduct	-291.39	
For Class 54 Rating, Add	406.45	
For Class 55 Rating, Add	608.93	
For Class 56 Rating, Add	808.75	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.58	503.96
For Class 52 Rating, Deduct	-309.43	
For Class 54 Rating, Add	431.11	
For Class 55 Rating, Add	645.62	
For Class 56 Rating, Add	857.32	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,745.69	507.33
For Class 52 Rating, Deduct	-327.47	
For Class 54 Rating, Add	455.78	
For Class 55 Rating, Add	682.32	
For Class 56 Rating, Add	905.89	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,914.80	510.69
		<i>For Class 52 Rating, Deduct</i>		-345.51	
		<i>For Class 54 Rating, Add</i>		480.44	
		<i>For Class 55 Rating, Add</i>		719.02	
		<i>For Class 56 Rating, Add</i>		954.46	
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,083.89	514.05
		<i>For Class 52 Rating, Deduct</i>		-363.55	
		<i>For Class 54 Rating, Add</i>		505.10	
		<i>For Class 55 Rating, Add</i>		755.72	
		<i>For Class 56 Rating, Add</i>		1,003.03	
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,253.01	517.41
		<i>For Class 52 Rating, Deduct</i>		-381.60	
		<i>For Class 54 Rating, Add</i>		529.77	
		<i>For Class 55 Rating, Add</i>		792.42	
		<i>For Class 56 Rating, Add</i>		1,051.59	
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,422.12	520.76
		<i>For Class 52 Rating, Deduct</i>		-399.64	
		<i>For Class 54 Rating, Add</i>		554.43	
		<i>For Class 55 Rating, Add</i>		829.11	
		<i>For Class 56 Rating, Add</i>		1,100.16	
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,591.22	524.12
		<i>For Class 52 Rating, Deduct</i>		-417.68	
		<i>For Class 54 Rating, Add</i>		579.09	
		<i>For Class 55 Rating, Add</i>		865.81	
		<i>For Class 56 Rating, Add</i>		1,148.73	
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,760.34	527.49
		<i>For Class 52 Rating, Deduct</i>		-435.72	
		<i>For Class 54 Rating, Add</i>		603.76	
		<i>For Class 55 Rating, Add</i>		902.51	
		<i>For Class 56 Rating, Add</i>		1,197.30	
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,929.43	530.85
		<i>For Class 52 Rating, Deduct</i>		-453.76	
		<i>For Class 54 Rating, Add</i>		628.42	
		<i>For Class 55 Rating, Add</i>		939.21	
		<i>For Class 56 Rating, Add</i>		1,245.87	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,098.54	534.21
		<i>For Class 52 Rating, Deduct</i>		-471.81	
		<i>For Class 54 Rating, Add</i>		653.08	
		<i>For Class 55 Rating, Add</i>		975.90	
		<i>For Class 56 Rating, Add</i>		1,294.43	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,267.65	537.57
		<i>For Class 52 Rating, Deduct</i>		-489.85	
		<i>For Class 54 Rating, Add</i>		677.75	
		<i>For Class 55 Rating, Add</i>		1,012.60	
		<i>For Class 56 Rating, Add</i>		1,343.00	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,436.76	540.92
		<i>For Class 52 Rating, Deduct</i>		-507.89	
		<i>For Class 54 Rating, Add</i>		702.41	
		<i>For Class 55 Rating, Add</i>		1,049.30	
		<i>For Class 56 Rating, Add</i>		1,391.57	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,605.87	544.28
		<i>For Class 52 Rating, Deduct</i>		-525.93	
		<i>For Class 54 Rating, Add</i>		727.07	
		<i>For Class 55 Rating, Add</i>		1,086.00	
		<i>For Class 56 Rating, Add</i>		1,440.14	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,774.97	547.64
		<i>For Class 52 Rating, Deduct</i>		-543.97	
		<i>For Class 54 Rating, Add</i>		751.74	
		<i>For Class 55 Rating, Add</i>		1,122.70	
		<i>For Class 56 Rating, Add</i>		1,488.71	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,944.08	551.01
		<i>For Class 52 Rating, Deduct</i>		-562.01	
		<i>For Class 54 Rating, Add</i>		776.40	
		<i>For Class 55 Rating, Add</i>		1,159.39	
		<i>For Class 56 Rating, Add</i>		1,537.27	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,113.19	554.37
		<i>For Class 52 Rating, Deduct</i>		-580.06	
		<i>For Class 54 Rating, Add</i>		801.07	
		<i>For Class 55 Rating, Add</i>		1,196.09	
		<i>For Class 56 Rating, Add</i>		1,585.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,282.30	557.73
For Class 52 Rating, Deduct	-598.10	
For Class 54 Rating, Add	825.73	
For Class 55 Rating, Add	1,232.79	
For Class 56 Rating, Add	1,634.41	
40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,451.39	561.09
For Class 52 Rating, Deduct	-616.14	
For Class 54 Rating, Add	850.39	
For Class 55 Rating, Add	1,269.49	
For Class 56 Rating, Add	1,682.98	
40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,620.51	564.44
For Class 52 Rating, Deduct	-634.18	
For Class 54 Rating, Add	875.06	
For Class 55 Rating, Add	1,306.18	
For Class 56 Rating, Add	1,731.55	
40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,789.62	567.80
For Class 52 Rating, Deduct	-652.22	
For Class 54 Rating, Add	899.72	
For Class 55 Rating, Add	1,342.88	
For Class 56 Rating, Add	1,780.12	
40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,958.72	571.16
For Class 52 Rating, Deduct	-670.27	
For Class 54 Rating, Add	924.38	
For Class 55 Rating, Add	1,379.58	
For Class 56 Rating, Add	1,828.68	
40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,127.83	574.53
For Class 52 Rating, Deduct	-688.31	
For Class 54 Rating, Add	949.05	
For Class 55 Rating, Add	1,416.28	
For Class 56 Rating, Add	1,877.25	
40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,296.93	577.89
For Class 52 Rating, Deduct	-706.35	
For Class 54 Rating, Add	973.71	
For Class 55 Rating, Add	1,452.97	
For Class 56 Rating, Add	1,925.82	
40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,466.04	581.25
For Class 52 Rating, Deduct	-724.39	
For Class 54 Rating, Add	998.37	
For Class 55 Rating, Add	1,489.67	
For Class 56 Rating, Add	1,974.39	
40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,635.15	584.60
For Class 52 Rating, Deduct	-742.43	
For Class 54 Rating, Add	1,023.04	
For Class 55 Rating, Add	1,526.37	
For Class 56 Rating, Add	2,022.96	
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,804.26	587.96
For Class 52 Rating, Deduct	-760.47	
For Class 54 Rating, Add	1,047.70	
For Class 55 Rating, Add	1,563.07	
For Class 56 Rating, Add	2,071.52	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,973.36	591.32
For Class 52 Rating, Deduct	-778.52	
For Class 54 Rating, Add	1,072.36	
For Class 55 Rating, Add	1,599.77	
For Class 56 Rating, Add	2,120.09	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,142.47	594.68
For Class 52 Rating, Deduct	-796.56	
For Class 54 Rating, Add	1,097.03	
For Class 55 Rating, Add	1,636.47	
For Class 56 Rating, Add	2,168.66	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,311.57	598.05
For Class 52 Rating, Deduct	-814.60	
For Class 54 Rating, Add	1,121.69	
For Class 55 Rating, Add	1,673.16	
For Class 56 Rating, Add	2,217.23	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,607.72	564.44
		<i>For Class 52 Rating, Deduct</i>		-192.78	
		<i>For Class 54 Rating, Add</i>		273.14	
		<i>For Class 55 Rating, Add</i>		411.33	
		<i>For Class 56 Rating, Add</i>		547.78	
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,812.78	567.80
		<i>For Class 52 Rating, Deduct</i>		-214.77	
		<i>For Class 54 Rating, Add</i>		303.19	
		<i>For Class 55 Rating, Add</i>		456.05	
		<i>For Class 56 Rating, Add</i>		606.95	
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,017.83	571.16
		<i>For Class 52 Rating, Deduct</i>		-236.77	
		<i>For Class 54 Rating, Add</i>		333.25	
		<i>For Class 55 Rating, Add</i>		500.76	
		<i>For Class 56 Rating, Add</i>		666.12	
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,222.89	574.53
		<i>For Class 52 Rating, Deduct</i>		-258.76	
		<i>For Class 54 Rating, Add</i>		363.31	
		<i>For Class 55 Rating, Add</i>		545.48	
		<i>For Class 56 Rating, Add</i>		725.30	
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,427.94	577.89
		<i>For Class 52 Rating, Deduct</i>		-280.76	
		<i>For Class 54 Rating, Add</i>		393.36	
		<i>For Class 55 Rating, Add</i>		590.19	
		<i>For Class 56 Rating, Add</i>		784.47	
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,633.00	581.25
		<i>For Class 52 Rating, Deduct</i>		-302.76	
		<i>For Class 54 Rating, Add</i>		423.42	
		<i>For Class 55 Rating, Add</i>		634.91	
		<i>For Class 56 Rating, Add</i>		843.64	
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,838.06	584.60
		<i>For Class 52 Rating, Deduct</i>		-324.75	
		<i>For Class 54 Rating, Add</i>		453.47	
		<i>For Class 55 Rating, Add</i>		679.62	
		<i>For Class 56 Rating, Add</i>		902.82	
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,043.12	587.96
		<i>For Class 52 Rating, Deduct</i>		-346.75	
		<i>For Class 54 Rating, Add</i>		483.53	
		<i>For Class 55 Rating, Add</i>		724.33	
		<i>For Class 56 Rating, Add</i>		961.99	
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,248.17	591.32
		<i>For Class 52 Rating, Deduct</i>		-368.75	
		<i>For Class 54 Rating, Add</i>		513.59	
		<i>For Class 55 Rating, Add</i>		769.05	
		<i>For Class 56 Rating, Add</i>		1,021.16	
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,453.22	594.68
		<i>For Class 52 Rating, Deduct</i>		-390.74	
		<i>For Class 54 Rating, Add</i>		543.64	
		<i>For Class 55 Rating, Add</i>		813.76	
		<i>For Class 56 Rating, Add</i>		1,080.33	
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,658.28	598.05
		<i>For Class 52 Rating, Deduct</i>		-412.74	
		<i>For Class 54 Rating, Add</i>		573.70	
		<i>For Class 55 Rating, Add</i>		858.48	
		<i>For Class 56 Rating, Add</i>		1,139.51	
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,863.34	601.41
		<i>For Class 52 Rating, Deduct</i>		-434.73	
		<i>For Class 54 Rating, Add</i>		603.75	
		<i>For Class 55 Rating, Add</i>		903.19	
		<i>For Class 56 Rating, Add</i>		1,198.68	
40 05 19 00-0768	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,068.40	604.76
		<i>For Class 52 Rating, Deduct</i>		-456.73	
		<i>For Class 54 Rating, Add</i>		633.81	
		<i>For Class 55 Rating, Add</i>		947.91	
		<i>For Class 56 Rating, Add</i>		1,257.85	
40 05 19 00-0769	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,273.44	608.12
		<i>For Class 52 Rating, Deduct</i>		-478.73	
		<i>For Class 54 Rating, Add</i>		663.86	
		<i>For Class 55 Rating, Add</i>		992.62	
		<i>For Class 56 Rating, Add</i>		1,317.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	5,478.51	611.48
Pipe	-500.72	
For Class 52 Rating, Deduct	693.92	
For Class 54 Rating, Add	1,037.34	
For Class 55 Rating, Add	1,376.20	
For Class 56 Rating, Add		
40 05 19 00-0771 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	5,683.56	614.84
Pipe	-522.72	
For Class 52 Rating, Deduct	723.98	
For Class 54 Rating, Add	1,082.05	
For Class 55 Rating, Add	1,435.37	
For Class 56 Rating, Add		
40 05 19 00-0772 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	5,888.62	618.20
Pipe	-544.71	
For Class 52 Rating, Deduct	754.03	
For Class 54 Rating, Add	1,126.76	
For Class 55 Rating, Add	1,494.55	
For Class 56 Rating, Add		
40 05 19 00-0773 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,093.66	621.57
Pipe	-566.71	
For Class 52 Rating, Deduct	784.09	
For Class 54 Rating, Add	1,171.48	
For Class 55 Rating, Add	1,553.72	
For Class 56 Rating, Add		
40 05 19 00-0774 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,298.73	624.92
Pipe	-588.71	
For Class 52 Rating, Deduct	814.14	
For Class 54 Rating, Add	1,216.19	
For Class 55 Rating, Add	1,612.89	
For Class 56 Rating, Add		
40 05 19 00-0775 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,503.78	628.28
Pipe	-610.70	
For Class 52 Rating, Deduct	844.20	
For Class 54 Rating, Add	1,260.91	
For Class 55 Rating, Add	1,672.06	
For Class 56 Rating, Add		
40 05 19 00-0776 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,708.84	631.64
Pipe	-632.70	
For Class 52 Rating, Deduct	874.26	
For Class 54 Rating, Add	1,305.62	
For Class 55 Rating, Add	1,731.24	
For Class 56 Rating, Add		
40 05 19 00-0777 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,913.89	635.00
Pipe	-654.69	
For Class 52 Rating, Deduct	904.31	
For Class 54 Rating, Add	1,350.34	
For Class 55 Rating, Add	1,790.41	
For Class 56 Rating, Add		
40 05 19 00-0778 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,118.95	638.36
Pipe	-676.69	
For Class 52 Rating, Deduct	934.37	
For Class 54 Rating, Add	1,395.05	
For Class 55 Rating, Add	1,849.58	
For Class 56 Rating, Add		
40 05 19 00-0779 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,324.00	641.72
Pipe	-698.69	
For Class 52 Rating, Deduct	964.42	
For Class 54 Rating, Add	1,439.76	
For Class 55 Rating, Add	1,908.75	
For Class 56 Rating, Add		
40 05 19 00-0780 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,529.06	645.08
Pipe	-720.68	
For Class 52 Rating, Deduct	994.48	
For Class 54 Rating, Add	1,484.48	
For Class 55 Rating, Add	1,967.93	
For Class 56 Rating, Add		
40 05 19 00-0781 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,734.12	648.44
Pipe	-742.68	
For Class 52 Rating, Deduct	1,024.53	
For Class 54 Rating, Add	1,529.19	
For Class 55 Rating, Add	2,027.10	
For Class 56 Rating, Add		
40 05 19 00-0782 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,939.17	651.80
Pipe	-764.68	
For Class 52 Rating, Deduct	1,054.59	
For Class 54 Rating, Add	1,573.91	
For Class 55 Rating, Add	2,086.27	
For Class 56 Rating, Add		
40 05 19 00-0783 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,144.22	655.16
Pipe	-786.67	
For Class 52 Rating, Deduct	1,084.65	
For Class 54 Rating, Add	1,618.62	
For Class 55 Rating, Add	2,145.45	
For Class 56 Rating, Add		

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,349.28	658.52
			For Class 52 Rating, Deduct	-808.67	
			For Class 54 Rating, Add	1,114.70	
			For Class 55 Rating, Add	1,663.34	
			For Class 56 Rating, Add	2,204.62	
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,554.34	661.88
			For Class 52 Rating, Deduct	-830.66	
			For Class 54 Rating, Add	1,144.76	
			For Class 55 Rating, Add	1,708.05	
			For Class 56 Rating, Add	2,263.79	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,759.40	665.23
			For Class 52 Rating, Deduct	-852.66	
			For Class 54 Rating, Add	1,174.81	
			For Class 55 Rating, Add	1,752.77	
			For Class 56 Rating, Add	2,322.97	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,964.45	668.60
			For Class 52 Rating, Deduct	-874.66	
			For Class 54 Rating, Add	1,204.87	
			For Class 55 Rating, Add	1,797.48	
			For Class 56 Rating, Add	2,382.14	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,169.51	671.96
			For Class 52 Rating, Deduct	-896.65	
			For Class 54 Rating, Add	1,234.93	
			For Class 55 Rating, Add	1,842.19	
			For Class 56 Rating, Add	2,441.31	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,374.57	675.32
			For Class 52 Rating, Deduct	-918.65	
			For Class 54 Rating, Add	1,264.98	
			For Class 55 Rating, Add	1,886.91	
			For Class 56 Rating, Add	2,500.49	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,579.62	678.68
			For Class 52 Rating, Deduct	-940.65	
			For Class 54 Rating, Add	1,295.04	
			For Class 55 Rating, Add	1,931.62	
			For Class 56 Rating, Add	2,559.66	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,784.68	682.04
			For Class 52 Rating, Deduct	-962.64	
			For Class 54 Rating, Add	1,325.09	
			For Class 55 Rating, Add	1,976.34	
			For Class 56 Rating, Add	2,618.83	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,989.73	685.39
			For Class 52 Rating, Deduct	-984.64	
			For Class 54 Rating, Add	1,355.15	
			For Class 55 Rating, Add	2,021.05	
			For Class 56 Rating, Add	2,678.00	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,194.79	688.75
			For Class 52 Rating, Deduct	-1,006.63	
			For Class 54 Rating, Add	1,385.21	
			For Class 55 Rating, Add	2,065.77	
			For Class 56 Rating, Add	2,737.18	
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,051.19	645.08
			For Class 52 Rating, Deduct	-228.12	
			For Class 54 Rating, Add	322.80	
			For Class 55 Rating, Add	485.91	
			For Class 56 Rating, Add	646.96	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,289.95	648.44
			For Class 52 Rating, Deduct	-253.82	
			For Class 54 Rating, Add	357.91	
			For Class 55 Rating, Add	538.14	
			For Class 56 Rating, Add	716.07	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,528.70	651.80
			For Class 52 Rating, Deduct	-279.52	
			For Class 54 Rating, Add	393.02	
			For Class 55 Rating, Add	590.37	
			For Class 56 Rating, Add	785.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,767.46	655.16
For Class 52 Rating, Deduct	-305.23	
For Class 54 Rating, Add	428.13	
For Class 55 Rating, Add	642.60	
For Class 56 Rating, Add	854.30	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,006.22	658.52
For Class 52 Rating, Deduct	-330.93	
For Class 54 Rating, Add	463.24	
For Class 55 Rating, Add	694.83	
For Class 56 Rating, Add	923.42	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,244.98	661.88
For Class 52 Rating, Deduct	-356.63	
For Class 54 Rating, Add	498.35	
For Class 55 Rating, Add	747.06	
For Class 56 Rating, Add	992.53	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,483.74	665.23
For Class 52 Rating, Deduct	-382.34	
For Class 54 Rating, Add	533.47	
For Class 55 Rating, Add	799.29	
For Class 56 Rating, Add	1,061.65	
40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,722.49	668.60
For Class 52 Rating, Deduct	-408.04	
For Class 54 Rating, Add	568.58	
For Class 55 Rating, Add	851.52	
For Class 56 Rating, Add	1,130.76	
40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,961.25	671.96
For Class 52 Rating, Deduct	-433.74	
For Class 54 Rating, Add	603.69	
For Class 55 Rating, Add	903.75	
For Class 56 Rating, Add	1,199.88	
40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,177.54	675.32
For Class 52 Rating, Deduct	-456.98	
For Class 54 Rating, Add	635.43	
For Class 55 Rating, Add	950.97	
For Class 56 Rating, Add	1,262.36	
40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,438.77	678.68
For Class 52 Rating, Deduct	-485.15	
For Class 54 Rating, Add	673.91	
For Class 55 Rating, Add	1,008.21	
For Class 56 Rating, Add	1,338.11	
40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,677.53	682.04
For Class 52 Rating, Deduct	-510.86	
For Class 54 Rating, Add	709.02	
For Class 55 Rating, Add	1,060.44	
For Class 56 Rating, Add	1,407.22	
40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,916.28	685.39
For Class 52 Rating, Deduct	-536.56	
For Class 54 Rating, Add	744.13	
For Class 55 Rating, Add	1,112.67	
For Class 56 Rating, Add	1,476.34	
40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,155.04	688.75
For Class 52 Rating, Deduct	-562.26	
For Class 54 Rating, Add	779.24	
For Class 55 Rating, Add	1,164.90	
For Class 56 Rating, Add	1,545.45	
40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,393.80	692.12
For Class 52 Rating, Deduct	-587.97	
For Class 54 Rating, Add	814.35	
For Class 55 Rating, Add	1,217.13	
For Class 56 Rating, Add	1,614.57	
40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,632.55	695.48
For Class 52 Rating, Deduct	-613.67	
For Class 54 Rating, Add	849.47	
For Class 55 Rating, Add	1,269.36	
For Class 56 Rating, Add	1,683.68	
40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,871.31	698.84
For Class 52 Rating, Deduct	-639.37	
For Class 54 Rating, Add	884.58	
For Class 55 Rating, Add	1,321.59	
For Class 56 Rating, Add	1,752.80	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0812	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,110.07	702.20
		<i>For Class 52 Rating, Deduct</i>		-665.08	
		<i>For Class 54 Rating, Add</i>		919.69	
		<i>For Class 55 Rating, Add</i>		1,373.82	
		<i>For Class 56 Rating, Add</i>		1,821.91	
40 05 19 00-0813	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,348.83	705.55
		<i>For Class 52 Rating, Deduct</i>		-690.78	
		<i>For Class 54 Rating, Add</i>		954.80	
		<i>For Class 55 Rating, Add</i>		1,426.05	
		<i>For Class 56 Rating, Add</i>		1,891.03	
40 05 19 00-0814	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,587.59	708.91
		<i>For Class 52 Rating, Deduct</i>		-716.48	
		<i>For Class 54 Rating, Add</i>		989.91	
		<i>For Class 55 Rating, Add</i>		1,478.28	
		<i>For Class 56 Rating, Add</i>		1,960.14	
40 05 19 00-0815	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,826.35	712.27
		<i>For Class 52 Rating, Deduct</i>		-742.19	
		<i>For Class 54 Rating, Add</i>		1,025.02	
		<i>For Class 55 Rating, Add</i>		1,530.51	
		<i>For Class 56 Rating, Add</i>		2,029.26	
40 05 19 00-0816	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,065.10	715.64
		<i>For Class 52 Rating, Deduct</i>		-767.89	
		<i>For Class 54 Rating, Add</i>		1,060.13	
		<i>For Class 55 Rating, Add</i>		1,582.74	
		<i>For Class 56 Rating, Add</i>		2,098.37	
40 05 19 00-0817	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,303.85	719.00
		<i>For Class 52 Rating, Deduct</i>		-793.59	
		<i>For Class 54 Rating, Add</i>		1,095.24	
		<i>For Class 55 Rating, Add</i>		1,634.97	
		<i>For Class 56 Rating, Add</i>		2,167.49	
40 05 19 00-0818	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,542.62	722.36
		<i>For Class 52 Rating, Deduct</i>		-819.30	
		<i>For Class 54 Rating, Add</i>		1,130.35	
		<i>For Class 55 Rating, Add</i>		1,687.20	
		<i>For Class 56 Rating, Add</i>		2,236.60	
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,781.38	725.71
		<i>For Class 52 Rating, Deduct</i>		-845.00	
		<i>For Class 54 Rating, Add</i>		1,165.47	
		<i>For Class 55 Rating, Add</i>		1,739.43	
		<i>For Class 56 Rating, Add</i>		2,305.72	
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,020.13	729.07
		<i>For Class 52 Rating, Deduct</i>		-870.70	
		<i>For Class 54 Rating, Add</i>		1,200.58	
		<i>For Class 55 Rating, Add</i>		1,791.66	
		<i>For Class 56 Rating, Add</i>		2,374.83	
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,258.89	732.43
		<i>For Class 52 Rating, Deduct</i>		-896.41	
		<i>For Class 54 Rating, Add</i>		1,235.69	
		<i>For Class 55 Rating, Add</i>		1,843.89	
		<i>For Class 56 Rating, Add</i>		2,443.95	
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,497.65	735.79
		<i>For Class 52 Rating, Deduct</i>		-922.11	
		<i>For Class 54 Rating, Add</i>		1,270.80	
		<i>For Class 55 Rating, Add</i>		1,896.12	
		<i>For Class 56 Rating, Add</i>		2,513.06	
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,736.41	739.16
		<i>For Class 52 Rating, Deduct</i>		-947.81	
		<i>For Class 54 Rating, Add</i>		1,305.91	
		<i>For Class 55 Rating, Add</i>		1,948.35	
		<i>For Class 56 Rating, Add</i>		2,582.18	
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,975.17	742.52
		<i>For Class 52 Rating, Deduct</i>		-973.52	
		<i>For Class 54 Rating, Add</i>		1,341.02	
		<i>For Class 55 Rating, Add</i>		2,000.58	
		<i>For Class 56 Rating, Add</i>		2,651.29	
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,213.92	745.87
		<i>For Class 52 Rating, Deduct</i>		-999.22	
		<i>For Class 54 Rating, Add</i>		1,376.13	
		<i>For Class 55 Rating, Add</i>		2,052.81	
		<i>For Class 56 Rating, Add</i>		2,720.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,452.68	749.23
<i>For Class 52 Rating, Deduct</i>	-1,024.92	
<i>For Class 54 Rating, Add</i>	1,411.24	
<i>For Class 55 Rating, Add</i>	2,105.04	
<i>For Class 56 Rating, Add</i>	2,789.52	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,691.44	752.59
<i>For Class 52 Rating, Deduct</i>	-1,050.63	
<i>For Class 54 Rating, Add</i>	1,446.36	
<i>For Class 55 Rating, Add</i>	2,157.27	
<i>For Class 56 Rating, Add</i>	2,858.64	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,930.19	755.95
<i>For Class 52 Rating, Deduct</i>	-1,076.33	
<i>For Class 54 Rating, Add</i>	1,481.47	
<i>For Class 55 Rating, Add</i>	2,209.50	
<i>For Class 56 Rating, Add</i>	2,927.75	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,168.95	759.31
<i>For Class 52 Rating, Deduct</i>	-1,102.03	
<i>For Class 54 Rating, Add</i>	1,516.58	
<i>For Class 55 Rating, Add</i>	2,261.73	
<i>For Class 56 Rating, Add</i>	2,996.87	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,407.71	762.68
<i>For Class 52 Rating, Deduct</i>	-1,127.74	
<i>For Class 54 Rating, Add</i>	1,551.69	
<i>For Class 55 Rating, Add</i>	2,313.96	
<i>For Class 56 Rating, Add</i>	3,065.98	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,646.47	766.03
<i>For Class 52 Rating, Deduct</i>	-1,153.44	
<i>For Class 54 Rating, Add</i>	1,586.80	
<i>For Class 55 Rating, Add</i>	2,366.19	
<i>For Class 56 Rating, Add</i>	3,135.10	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,885.23	769.39
<i>For Class 52 Rating, Deduct</i>	-1,179.14	
<i>For Class 54 Rating, Add</i>	1,621.91	
<i>For Class 55 Rating, Add</i>	2,418.42	
<i>For Class 56 Rating, Add</i>	3,204.21	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,561.85	727.06
<i>For Class 52 Rating, Deduct</i>	-270.63	
<i>For Class 54 Rating, Add</i>	382.26	
<i>For Class 55 Rating, Add</i>	575.07	
<i>For Class 56 Rating, Add</i>	765.43	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,836.56	730.42
<i>For Class 52 Rating, Deduct</i>	-300.28	
<i>For Class 54 Rating, Add</i>	422.76	
<i>For Class 55 Rating, Add</i>	635.32	
<i>For Class 56 Rating, Add</i>	845.15	
40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,111.26	733.78
<i>For Class 52 Rating, Deduct</i>	-329.94	
<i>For Class 54 Rating, Add</i>	463.26	
<i>For Class 55 Rating, Add</i>	695.57	
<i>For Class 56 Rating, Add</i>	924.87	
40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,385.96	737.14
<i>For Class 52 Rating, Deduct</i>	-359.60	
<i>For Class 54 Rating, Add</i>	503.77	
<i>For Class 55 Rating, Add</i>	755.81	
<i>For Class 56 Rating, Add</i>	1,004.59	
40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,660.68	740.50
<i>For Class 52 Rating, Deduct</i>	-389.26	
<i>For Class 54 Rating, Add</i>	544.27	
<i>For Class 55 Rating, Add</i>	816.06	
<i>For Class 56 Rating, Add</i>	1,084.31	
40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,935.39	743.87
<i>For Class 52 Rating, Deduct</i>	-418.92	
<i>For Class 54 Rating, Add</i>	584.77	
<i>For Class 55 Rating, Add</i>	876.31	
<i>For Class 56 Rating, Add</i>	1,164.03	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,210.08	747.22
		<i>For Class 52 Rating, Deduct</i>		-448.57	
		<i>For Class 54 Rating, Add</i>		625.28	
		<i>For Class 55 Rating, Add</i>		936.55	
		<i>For Class 56 Rating, Add</i>		1,243.75	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,484.79	750.58
		<i>For Class 52 Rating, Deduct</i>		-478.23	
		<i>For Class 54 Rating, Add</i>		665.78	
		<i>For Class 55 Rating, Add</i>		996.80	
		<i>For Class 56 Rating, Add</i>		1,323.47	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,759.50	753.94
		<i>For Class 52 Rating, Deduct</i>		-507.89	
		<i>For Class 54 Rating, Add</i>		706.28	
		<i>For Class 55 Rating, Add</i>		1,057.04	
		<i>For Class 56 Rating, Add</i>		1,403.19	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,034.21	757.30
		<i>For Class 52 Rating, Deduct</i>		-537.55	
		<i>For Class 54 Rating, Add</i>		746.79	
		<i>For Class 55 Rating, Add</i>		1,117.29	
		<i>For Class 56 Rating, Add</i>		1,482.91	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,308.92	760.66
		<i>For Class 52 Rating, Deduct</i>		-567.21	
		<i>For Class 54 Rating, Add</i>		787.29	
		<i>For Class 55 Rating, Add</i>		1,177.54	
		<i>For Class 56 Rating, Add</i>		1,562.63	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,583.62	764.02
		<i>For Class 52 Rating, Deduct</i>		-596.86	
		<i>For Class 54 Rating, Add</i>		827.79	
		<i>For Class 55 Rating, Add</i>		1,237.78	
		<i>For Class 56 Rating, Add</i>		1,642.35	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,858.33	767.38
		<i>For Class 52 Rating, Deduct</i>		-626.52	
		<i>For Class 54 Rating, Add</i>		868.30	
		<i>For Class 55 Rating, Add</i>		1,298.03	
		<i>For Class 56 Rating, Add</i>		1,722.07	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,133.03	770.74
		<i>For Class 52 Rating, Deduct</i>		-656.18	
		<i>For Class 54 Rating, Add</i>		908.80	
		<i>For Class 55 Rating, Add</i>		1,358.28	
		<i>For Class 56 Rating, Add</i>		1,801.79	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,407.74	774.10
		<i>For Class 52 Rating, Deduct</i>		-685.84	
		<i>For Class 54 Rating, Add</i>		949.30	
		<i>For Class 55 Rating, Add</i>		1,418.52	
		<i>For Class 56 Rating, Add</i>		1,881.51	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,682.46	777.46
		<i>For Class 52 Rating, Deduct</i>		-715.49	
		<i>For Class 54 Rating, Add</i>		989.81	
		<i>For Class 55 Rating, Add</i>		1,478.77	
		<i>For Class 56 Rating, Add</i>		1,961.23	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,957.15	780.82
		<i>For Class 52 Rating, Deduct</i>		-745.15	
		<i>For Class 54 Rating, Add</i>		1,030.31	
		<i>For Class 55 Rating, Add</i>		1,539.02	
		<i>For Class 56 Rating, Add</i>		2,040.95	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,231.86	784.18
		<i>For Class 52 Rating, Deduct</i>		-774.81	
		<i>For Class 54 Rating, Add</i>		1,070.82	
		<i>For Class 55 Rating, Add</i>		1,599.26	
		<i>For Class 56 Rating, Add</i>		2,120.67	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,506.57	787.53
		<i>For Class 52 Rating, Deduct</i>		-804.47	
		<i>For Class 54 Rating, Add</i>		1,111.32	
		<i>For Class 55 Rating, Add</i>		1,659.51	
		<i>For Class 56 Rating, Add</i>		2,200.39	
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,781.28	790.90
		<i>For Class 52 Rating, Deduct</i>		-834.12	
		<i>For Class 54 Rating, Add</i>		1,151.82	
		<i>For Class 55 Rating, Add</i>		1,719.76	
		<i>For Class 56 Rating, Add</i>		2,280.11	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,055.98	794.26
Pipe		
For Class 52 Rating, Deduct	-863.78	
For Class 54 Rating, Add	1,192.33	
For Class 55 Rating, Add	1,780.00	
For Class 56 Rating, Add	2,359.83	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,330.68	797.62
Pipe		
For Class 52 Rating, Deduct	-893.44	
For Class 54 Rating, Add	1,232.83	
For Class 55 Rating, Add	1,840.25	
For Class 56 Rating, Add	2,439.55	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,605.40	800.98
Pipe		
For Class 52 Rating, Deduct	-923.10	
For Class 54 Rating, Add	1,273.33	
For Class 55 Rating, Add	1,900.50	
For Class 56 Rating, Add	2,519.27	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,880.10	804.34
Pipe		
For Class 52 Rating, Deduct	-952.76	
For Class 54 Rating, Add	1,313.84	
For Class 55 Rating, Add	1,960.74	
For Class 56 Rating, Add	2,598.99	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,154.81	807.69
Pipe		
For Class 52 Rating, Deduct	-982.41	
For Class 54 Rating, Add	1,354.34	
For Class 55 Rating, Add	2,020.99	
For Class 56 Rating, Add	2,678.71	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,429.51	811.05
Pipe		
For Class 52 Rating, Deduct	-1,012.07	
For Class 54 Rating, Add	1,394.84	
For Class 55 Rating, Add	2,081.24	
For Class 56 Rating, Add	2,758.43	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,704.22	814.42
Pipe		
For Class 52 Rating, Deduct	-1,041.73	
For Class 54 Rating, Add	1,435.35	
For Class 55 Rating, Add	2,141.48	
For Class 56 Rating, Add	2,838.15	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,978.93	817.78
Pipe		
For Class 52 Rating, Deduct	-1,071.39	
For Class 54 Rating, Add	1,475.85	
For Class 55 Rating, Add	2,201.73	
For Class 56 Rating, Add	2,917.87	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	11,253.63	821.14
Pipe		
For Class 52 Rating, Deduct	-1,101.04	
For Class 54 Rating, Add	1,516.35	
For Class 55 Rating, Add	2,261.98	
For Class 56 Rating, Add	2,997.59	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	11,528.34	824.50
Pipe		
For Class 52 Rating, Deduct	-1,130.70	
For Class 54 Rating, Add	1,556.86	
For Class 55 Rating, Add	2,322.22	
For Class 56 Rating, Add	3,077.31	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	11,803.05	827.85
Pipe		
For Class 52 Rating, Deduct	-1,160.36	
For Class 54 Rating, Add	1,597.36	
For Class 55 Rating, Add	2,382.47	
For Class 56 Rating, Add	3,157.03	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	12,077.75	831.21
Pipe		
For Class 52 Rating, Deduct	-1,190.02	
For Class 54 Rating, Add	1,637.86	
For Class 55 Rating, Add	2,442.72	
For Class 56 Rating, Add	3,236.75	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	12,352.46	834.57
Pipe		
For Class 52 Rating, Deduct	-1,219.68	
For Class 54 Rating, Add	1,678.37	
For Class 55 Rating, Add	2,502.96	
For Class 56 Rating, Add	3,316.47	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	12,627.17	837.94
Pipe		
For Class 52 Rating, Deduct	-1,249.33	
For Class 54 Rating, Add	1,718.87	
For Class 55 Rating, Add	2,563.21	
For Class 56 Rating, Add	3,396.19	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,901.87	841.30
		<i>For Class 52 Rating, Deduct</i>		-1,278.99	
		<i>For Class 54 Rating, Add</i>		1,759.37	
		<i>For Class 55 Rating, Add</i>		2,623.46	
		<i>For Class 56 Rating, Add</i>		3,475.91	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,176.58	844.66
		<i>For Class 52 Rating, Deduct</i>		-1,308.65	
		<i>For Class 54 Rating, Add</i>		1,799.88	
		<i>For Class 55 Rating, Add</i>		2,683.70	
		<i>For Class 56 Rating, Add</i>		3,555.63	
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,451.28	848.02
		<i>For Class 52 Rating, Deduct</i>		-1,338.31	
		<i>For Class 54 Rating, Add</i>		1,840.38	
		<i>For Class 55 Rating, Add</i>		2,743.95	
		<i>For Class 56 Rating, Add</i>		3,635.35	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,726.00	851.37
		<i>For Class 52 Rating, Deduct</i>		-1,367.96	
		<i>For Class 54 Rating, Add</i>		1,880.89	
		<i>For Class 55 Rating, Add</i>		2,804.20	
		<i>For Class 56 Rating, Add</i>		3,715.07	
40 05 19 00-0872		20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>			
40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,131.04	829.86
		<i>For Class 52 Rating, Deduct</i>		-316.10	
		<i>For Class 54 Rating, Add</i>		446.14	
		<i>For Class 55 Rating, Add</i>		671.00	
		<i>For Class 56 Rating, Add</i>		893.00	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,446.19	833.23
		<i>For Class 52 Rating, Deduct</i>		-350.21	
		<i>For Class 54 Rating, Add</i>		492.71	
		<i>For Class 55 Rating, Add</i>		740.27	
		<i>For Class 56 Rating, Add</i>		984.65	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,761.32	836.59
		<i>For Class 52 Rating, Deduct</i>		-384.31	
		<i>For Class 54 Rating, Add</i>		539.28	
		<i>For Class 55 Rating, Add</i>		809.53	
		<i>For Class 56 Rating, Add</i>		1,076.29	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,076.47	839.95
		<i>For Class 52 Rating, Deduct</i>		-418.42	
		<i>For Class 54 Rating, Add</i>		585.85	
		<i>For Class 55 Rating, Add</i>		878.80	
		<i>For Class 56 Rating, Add</i>		1,167.94	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,391.63	843.31
		<i>For Class 52 Rating, Deduct</i>		-452.53	
		<i>For Class 54 Rating, Add</i>		632.42	
		<i>For Class 55 Rating, Add</i>		948.06	
		<i>For Class 56 Rating, Add</i>		1,259.60	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,706.78	846.67
		<i>For Class 52 Rating, Deduct</i>		-486.63	
		<i>For Class 54 Rating, Add</i>		678.99	
		<i>For Class 55 Rating, Add</i>		1,017.33	
		<i>For Class 56 Rating, Add</i>		1,351.25	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,021.93	850.02
		<i>For Class 52 Rating, Deduct</i>		-520.74	
		<i>For Class 54 Rating, Add</i>		725.56	
		<i>For Class 55 Rating, Add</i>		1,086.59	
		<i>For Class 56 Rating, Add</i>		1,442.90	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,337.08	853.38
		<i>For Class 52 Rating, Deduct</i>		-554.85	
		<i>For Class 54 Rating, Add</i>		772.13	
		<i>For Class 55 Rating, Add</i>		1,155.86	
		<i>For Class 56 Rating, Add</i>		1,534.55	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,652.22	856.75
		<i>For Class 52 Rating, Deduct</i>		-588.95	
		<i>For Class 54 Rating, Add</i>		818.70	
		<i>For Class 55 Rating, Add</i>		1,225.12	
		<i>For Class 56 Rating, Add</i>		1,626.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882	EA			20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,967.37	860.11
				<i>For Class 52 Rating, Deduct</i>	-623.06	
				<i>For Class 54 Rating, Add</i>	865.27	
				<i>For Class 55 Rating, Add</i>	1,294.39	
				<i>For Class 56 Rating, Add</i>	1,717.85	
40 05 19 00-0883	EA			20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,282.52	863.47
				<i>For Class 52 Rating, Deduct</i>	-657.17	
				<i>For Class 54 Rating, Add</i>	911.84	
				<i>For Class 55 Rating, Add</i>	1,363.65	
				<i>For Class 56 Rating, Add</i>	1,809.50	
40 05 19 00-0884	EA			20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,597.67	866.83
				<i>For Class 52 Rating, Deduct</i>	-691.27	
				<i>For Class 54 Rating, Add</i>	958.41	
				<i>For Class 55 Rating, Add</i>	1,432.92	
				<i>For Class 56 Rating, Add</i>	1,901.15	
40 05 19 00-0885	EA			20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,912.82	870.18
				<i>For Class 52 Rating, Deduct</i>	-725.38	
				<i>For Class 54 Rating, Add</i>	1,004.98	
				<i>For Class 55 Rating, Add</i>	1,502.19	
				<i>For Class 56 Rating, Add</i>	1,992.80	
40 05 19 00-0886	EA			20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,227.97	873.54
				<i>For Class 52 Rating, Deduct</i>	-759.49	
				<i>For Class 54 Rating, Add</i>	1,051.55	
				<i>For Class 55 Rating, Add</i>	1,571.45	
				<i>For Class 56 Rating, Add</i>	2,084.45	
40 05 19 00-0887	EA			20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,543.11	876.90
				<i>For Class 52 Rating, Deduct</i>	-793.59	
				<i>For Class 54 Rating, Add</i>	1,098.11	
				<i>For Class 55 Rating, Add</i>	1,640.71	
				<i>For Class 56 Rating, Add</i>	2,176.10	
40 05 19 00-0888	EA			20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,858.27	880.27
				<i>For Class 52 Rating, Deduct</i>	-827.70	
				<i>For Class 54 Rating, Add</i>	1,144.68	
				<i>For Class 55 Rating, Add</i>	1,709.98	
				<i>For Class 56 Rating, Add</i>	2,267.75	
40 05 19 00-0889	EA			20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,173.41	883.63
				<i>For Class 52 Rating, Deduct</i>	-861.80	
				<i>For Class 54 Rating, Add</i>	1,191.25	
				<i>For Class 55 Rating, Add</i>	1,779.25	
				<i>For Class 56 Rating, Add</i>	2,359.40	
40 05 19 00-0890	EA			20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,488.56	886.99
				<i>For Class 52 Rating, Deduct</i>	-895.91	
				<i>For Class 54 Rating, Add</i>	1,237.82	
				<i>For Class 55 Rating, Add</i>	1,848.51	
				<i>For Class 56 Rating, Add</i>	2,451.05	
40 05 19 00-0891	EA			20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,803.72	890.34
				<i>For Class 52 Rating, Deduct</i>	-930.02	
				<i>For Class 54 Rating, Add</i>	1,284.39	
				<i>For Class 55 Rating, Add</i>	1,917.78	
				<i>For Class 56 Rating, Add</i>	2,542.70	
40 05 19 00-0892	EA			20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,118.87	893.70
				<i>For Class 52 Rating, Deduct</i>	-964.12	
				<i>For Class 54 Rating, Add</i>	1,330.96	
				<i>For Class 55 Rating, Add</i>	1,987.04	
				<i>For Class 56 Rating, Add</i>	2,634.35	
40 05 19 00-0893	EA			20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,434.01	897.06
				<i>For Class 52 Rating, Deduct</i>	-998.23	
				<i>For Class 54 Rating, Add</i>	1,377.53	
				<i>For Class 55 Rating, Add</i>	2,056.31	
				<i>For Class 56 Rating, Add</i>	2,726.01	
40 05 19 00-0894	EA			20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,749.15	900.42
				<i>For Class 52 Rating, Deduct</i>	-1,032.34	
				<i>For Class 54 Rating, Add</i>	1,424.10	
				<i>For Class 55 Rating, Add</i>	2,125.57	
				<i>For Class 56 Rating, Add</i>	2,817.65	
40 05 19 00-0895	EA			20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,064.31	903.79
				<i>For Class 52 Rating, Deduct</i>	-1,066.44	
				<i>For Class 54 Rating, Add</i>	1,470.67	
				<i>For Class 55 Rating, Add</i>	2,194.84	
				<i>For Class 56 Rating, Add</i>	2,909.30	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,379.46	907.15
			<i>For Class 52 Rating, Deduct</i>	-1,100.55	
			<i>For Class 54 Rating, Add</i>	1,517.24	
			<i>For Class 55 Rating, Add</i>	2,264.10	
			<i>For Class 56 Rating, Add</i>	3,000.96	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,694.61	910.50
			<i>For Class 52 Rating, Deduct</i>	-1,134.66	
			<i>For Class 54 Rating, Add</i>	1,563.81	
			<i>For Class 55 Rating, Add</i>	2,333.37	
			<i>For Class 56 Rating, Add</i>	3,092.61	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,009.76	913.86
			<i>For Class 52 Rating, Deduct</i>	-1,168.76	
			<i>For Class 54 Rating, Add</i>	1,610.38	
			<i>For Class 55 Rating, Add</i>	2,402.63	
			<i>For Class 56 Rating, Add</i>	3,184.26	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,324.91	917.22
			<i>For Class 52 Rating, Deduct</i>	-1,202.87	
			<i>For Class 54 Rating, Add</i>	1,656.95	
			<i>For Class 55 Rating, Add</i>	2,471.90	
			<i>For Class 56 Rating, Add</i>	3,275.91	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,640.05	920.58
			<i>For Class 52 Rating, Deduct</i>	-1,236.98	
			<i>For Class 54 Rating, Add</i>	1,703.52	
			<i>For Class 55 Rating, Add</i>	2,541.16	
			<i>For Class 56 Rating, Add</i>	3,367.56	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,955.20	923.94
			<i>For Class 52 Rating, Deduct</i>	-1,271.08	
			<i>For Class 54 Rating, Add</i>	1,750.09	
			<i>For Class 55 Rating, Add</i>	2,610.43	
			<i>For Class 56 Rating, Add</i>	3,459.21	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,270.36	927.31
			<i>For Class 52 Rating, Deduct</i>	-1,305.19	
			<i>For Class 54 Rating, Add</i>	1,796.66	
			<i>For Class 55 Rating, Add</i>	2,679.69	
			<i>For Class 56 Rating, Add</i>	3,550.86	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,585.50	930.66
			<i>For Class 52 Rating, Deduct</i>	-1,339.30	
			<i>For Class 54 Rating, Add</i>	1,843.23	
			<i>For Class 55 Rating, Add</i>	2,748.96	
			<i>For Class 56 Rating, Add</i>	3,642.51	
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,900.65	934.02
			<i>For Class 52 Rating, Deduct</i>	-1,373.40	
			<i>For Class 54 Rating, Add</i>	1,889.80	
			<i>For Class 55 Rating, Add</i>	2,818.22	
			<i>For Class 56 Rating, Add</i>	3,734.16	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,215.80	937.38
			<i>For Class 52 Rating, Deduct</i>	-1,407.51	
			<i>For Class 54 Rating, Add</i>	1,936.37	
			<i>For Class 55 Rating, Add</i>	2,887.49	
			<i>For Class 56 Rating, Add</i>	3,825.81	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,530.95	940.74
			<i>For Class 52 Rating, Deduct</i>	-1,441.61	
			<i>For Class 54 Rating, Add</i>	1,982.94	
			<i>For Class 55 Rating, Add</i>	2,956.75	
			<i>For Class 56 Rating, Add</i>	3,917.46	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,846.09	944.10
			<i>For Class 52 Rating, Deduct</i>	-1,475.72	
			<i>For Class 54 Rating, Add</i>	2,029.51	
			<i>For Class 55 Rating, Add</i>	3,026.02	
			<i>For Class 56 Rating, Add</i>	4,009.11	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,161.24	947.46
			<i>For Class 52 Rating, Deduct</i>	-1,509.83	
			<i>For Class 54 Rating, Add</i>	2,076.08	
			<i>For Class 55 Rating, Add</i>	3,095.28	
			<i>For Class 56 Rating, Add</i>	4,100.76	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,476.40	950.82
			<i>For Class 52 Rating, Deduct</i>	-1,543.93	
			<i>For Class 54 Rating, Add</i>	2,122.65	
			<i>For Class 55 Rating, Add</i>	3,164.55	
			<i>For Class 56 Rating, Add</i>	4,192.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,791.55	954.18
For Class 52 Rating, Deduct	-1,578.04	
For Class 54 Rating, Add	2,169.22	
For Class 55 Rating, Add	3,233.82	
For Class 56 Rating, Add	4,284.06	
40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,117.28	981.06
For Class 52 Rating, Deduct	-399.39	
For Class 54 Rating, Add	562.46	
For Class 55 Rating, Add	845.35	
For Class 56 Rating, Add	1,124.61	
40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,506.57	984.42
For Class 52 Rating, Deduct	-441.65	
For Class 54 Rating, Add	620.15	
For Class 55 Rating, Add	931.15	
For Class 56 Rating, Add	1,238.13	
40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,895.87	987.78
For Class 52 Rating, Deduct	-483.92	
For Class 54 Rating, Add	677.84	
For Class 55 Rating, Add	1,016.95	
For Class 56 Rating, Add	1,351.65	
40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,285.16	991.13
For Class 52 Rating, Deduct	-526.18	
For Class 54 Rating, Add	735.54	
For Class 55 Rating, Add	1,102.75	
For Class 56 Rating, Add	1,465.18	
40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,674.45	994.49
For Class 52 Rating, Deduct	-568.44	
For Class 54 Rating, Add	793.23	
For Class 55 Rating, Add	1,188.55	
For Class 56 Rating, Add	1,578.70	
40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,063.74	997.86
For Class 52 Rating, Deduct	-610.70	
For Class 54 Rating, Add	850.92	
For Class 55 Rating, Add	1,274.35	
For Class 56 Rating, Add	1,692.22	
40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,453.05	1,001.22
For Class 52 Rating, Deduct	-652.97	
For Class 54 Rating, Add	908.61	
For Class 55 Rating, Add	1,360.15	
For Class 56 Rating, Add	1,805.75	
40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,842.33	1,004.58
For Class 52 Rating, Deduct	-695.23	
For Class 54 Rating, Add	966.30	
For Class 55 Rating, Add	1,445.95	
For Class 56 Rating, Add	1,919.27	
40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,231.62	1,007.94
For Class 52 Rating, Deduct	-737.49	
For Class 54 Rating, Add	1,023.99	
For Class 55 Rating, Add	1,531.74	
For Class 56 Rating, Add	2,032.79	
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,620.92	1,011.29
For Class 52 Rating, Deduct	-779.75	
For Class 54 Rating, Add	1,081.68	
For Class 55 Rating, Add	1,617.54	
For Class 56 Rating, Add	2,146.31	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,010.22	1,014.65
For Class 52 Rating, Deduct	-822.01	
For Class 54 Rating, Add	1,139.38	
For Class 55 Rating, Add	1,703.34	
For Class 56 Rating, Add	2,259.84	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,399.51	1,018.01
For Class 52 Rating, Deduct	-864.28	
For Class 54 Rating, Add	1,197.07	
For Class 55 Rating, Add	1,789.14	
For Class 56 Rating, Add	2,373.36	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,788.79	1,021.38
		<i>For Class 52 Rating, Deduct</i>		-906.54	
		<i>For Class 54 Rating, Add</i>		1,254.76	
		<i>For Class 55 Rating, Add</i>		1,874.94	
		<i>For Class 56 Rating, Add</i>		2,486.88	
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,178.10	1,024.74
		<i>For Class 52 Rating, Deduct</i>		-948.80	
		<i>For Class 54 Rating, Add</i>		1,312.45	
		<i>For Class 55 Rating, Add</i>		1,960.74	
		<i>For Class 56 Rating, Add</i>		2,600.41	
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,567.39	1,028.10
		<i>For Class 52 Rating, Deduct</i>		-991.06	
		<i>For Class 54 Rating, Add</i>		1,370.14	
		<i>For Class 55 Rating, Add</i>		2,046.54	
		<i>For Class 56 Rating, Add</i>		2,713.93	
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,956.68	1,031.45
		<i>For Class 52 Rating, Deduct</i>		-1,033.33	
		<i>For Class 54 Rating, Add</i>		1,427.83	
		<i>For Class 55 Rating, Add</i>		2,132.34	
		<i>For Class 56 Rating, Add</i>		2,827.45	
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,345.98	1,034.81
		<i>For Class 52 Rating, Deduct</i>		-1,075.59	
		<i>For Class 54 Rating, Add</i>		1,485.53	
		<i>For Class 55 Rating, Add</i>		2,218.14	
		<i>For Class 56 Rating, Add</i>		2,940.98	
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,735.27	1,038.17
		<i>For Class 52 Rating, Deduct</i>		-1,117.85	
		<i>For Class 54 Rating, Add</i>		1,543.22	
		<i>For Class 55 Rating, Add</i>		2,303.94	
		<i>For Class 56 Rating, Add</i>		3,054.50	
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,124.56	1,041.53
		<i>For Class 52 Rating, Deduct</i>		-1,160.11	
		<i>For Class 54 Rating, Add</i>		1,600.91	
		<i>For Class 55 Rating, Add</i>		2,389.74	
		<i>For Class 56 Rating, Add</i>		3,168.02	
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,513.85	1,044.90
		<i>For Class 52 Rating, Deduct</i>		-1,202.37	
		<i>For Class 54 Rating, Add</i>		1,658.60	
		<i>For Class 55 Rating, Add</i>		2,475.54	
		<i>For Class 56 Rating, Add</i>		3,281.54	
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,903.15	1,048.26
		<i>For Class 52 Rating, Deduct</i>		-1,244.64	
		<i>For Class 54 Rating, Add</i>		1,716.29	
		<i>For Class 55 Rating, Add</i>		2,561.34	
		<i>For Class 56 Rating, Add</i>		3,395.07	
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,292.44	1,051.61
		<i>For Class 52 Rating, Deduct</i>		-1,286.90	
		<i>For Class 54 Rating, Add</i>		1,773.98	
		<i>For Class 55 Rating, Add</i>		2,647.14	
		<i>For Class 56 Rating, Add</i>		3,508.59	
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,681.73	1,054.97
		<i>For Class 52 Rating, Deduct</i>		-1,329.16	
		<i>For Class 54 Rating, Add</i>		1,831.67	
		<i>For Class 55 Rating, Add</i>		2,732.94	
		<i>For Class 56 Rating, Add</i>		3,622.11	
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,071.02	1,058.33
		<i>For Class 52 Rating, Deduct</i>		-1,371.42	
		<i>For Class 54 Rating, Add</i>		1,889.37	
		<i>For Class 55 Rating, Add</i>		2,818.73	
		<i>For Class 56 Rating, Add</i>		3,735.64	
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,460.33	1,061.69
		<i>For Class 52 Rating, Deduct</i>		-1,413.69	
		<i>For Class 54 Rating, Add</i>		1,947.06	
		<i>For Class 55 Rating, Add</i>		2,904.54	
		<i>For Class 56 Rating, Add</i>		3,849.16	
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,849.62	1,065.05
		<i>For Class 52 Rating, Deduct</i>		-1,455.95	
		<i>For Class 54 Rating, Add</i>		2,004.75	
		<i>For Class 55 Rating, Add</i>		2,990.33	
		<i>For Class 56 Rating, Add</i>		3,962.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,238.90	1,068.42
<i>For Class 52 Rating, Deduct</i>	-1,498.21	
<i>For Class 54 Rating, Add</i>	2,062.44	
<i>For Class 55 Rating, Add</i>	3,076.13	
<i>For Class 56 Rating, Add</i>	4,076.21	
40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,628.20	1,071.77
<i>For Class 52 Rating, Deduct</i>	-1,540.47	
<i>For Class 54 Rating, Add</i>	2,120.13	
<i>For Class 55 Rating, Add</i>	3,161.93	
<i>For Class 56 Rating, Add</i>	4,189.73	
40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,017.50	1,075.13
<i>For Class 52 Rating, Deduct</i>	-1,582.74	
<i>For Class 54 Rating, Add</i>	2,177.82	
<i>For Class 55 Rating, Add</i>	3,247.73	
<i>For Class 56 Rating, Add</i>	4,303.25	
40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,493.33	1,135.60
<i>For Class 52 Rating, Deduct</i>	-1,625.00	
<i>For Class 54 Rating, Add</i>	2,236.55	
<i>For Class 55 Rating, Add</i>	3,335.61	
<i>For Class 56 Rating, Add</i>	4,419.89	
40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,882.62	1,138.97
<i>For Class 52 Rating, Deduct</i>	-1,667.26	
<i>For Class 54 Rating, Add</i>	2,294.25	
<i>For Class 55 Rating, Add</i>	3,421.41	
<i>For Class 56 Rating, Add</i>	4,533.41	
40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,271.92	1,142.33
<i>For Class 52 Rating, Deduct</i>	-1,709.52	
<i>For Class 54 Rating, Add</i>	2,351.94	
<i>For Class 55 Rating, Add</i>	3,507.21	
<i>For Class 56 Rating, Add</i>	4,646.94	
40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,661.21	1,145.69
<i>For Class 52 Rating, Deduct</i>	-1,751.79	
<i>For Class 54 Rating, Add</i>	2,409.63	
<i>For Class 55 Rating, Add</i>	3,593.01	
<i>For Class 56 Rating, Add</i>	4,760.46	
40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,050.50	1,149.05
<i>For Class 52 Rating, Deduct</i>	-1,794.05	
<i>For Class 54 Rating, Add</i>	2,467.32	
<i>For Class 55 Rating, Add</i>	3,678.81	
<i>For Class 56 Rating, Add</i>	4,873.98	
40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,439.79	1,152.41
<i>For Class 52 Rating, Deduct</i>	-1,836.31	
<i>For Class 54 Rating, Add</i>	2,525.01	
<i>For Class 55 Rating, Add</i>	3,764.61	
<i>For Class 56 Rating, Add</i>	4,987.51	
40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,829.10	1,155.76
<i>For Class 52 Rating, Deduct</i>	-1,878.57	
<i>For Class 54 Rating, Add</i>	2,582.70	
<i>For Class 55 Rating, Add</i>	3,850.41	
<i>For Class 56 Rating, Add</i>	5,101.03	
40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,218.38	1,159.12
<i>For Class 52 Rating, Deduct</i>	-1,920.83	
<i>For Class 54 Rating, Add</i>	2,640.39	
<i>For Class 55 Rating, Add</i>	3,936.20	
<i>For Class 56 Rating, Add</i>	5,214.55	
40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,607.67	1,162.49
<i>For Class 52 Rating, Deduct</i>	-1,963.10	
<i>For Class 54 Rating, Add</i>	2,698.09	
<i>For Class 55 Rating, Add</i>	4,022.00	
<i>For Class 56 Rating, Add</i>	5,328.08	
 40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,894.06	1,384.23
<i>For Class 52 Rating, Deduct</i>	-637.64	
<i>For Class 54 Rating, Add</i>	894.68	
<i>For Class 55 Rating, Add</i>	1,343.01	
<i>For Class 56 Rating, Add</i>	1,785.54	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,454.12	1,387.59
		<i>For Class 52 Rating, Deduct</i>		-698.69	
		<i>For Class 54 Rating, Add</i>		977.98	
		<i>For Class 55 Rating, Add</i>		1,466.89	
		<i>For Class 56 Rating, Add</i>		1,949.44	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,014.16	1,390.95
		<i>For Class 52 Rating, Deduct</i>		-759.73	
		<i>For Class 54 Rating, Add</i>		1,061.29	
		<i>For Class 55 Rating, Add</i>		1,590.77	
		<i>For Class 56 Rating, Add</i>		2,113.33	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,574.21	1,394.31
		<i>For Class 52 Rating, Deduct</i>		-820.78	
		<i>For Class 54 Rating, Add</i>		1,144.59	
		<i>For Class 55 Rating, Add</i>		1,714.64	
		<i>For Class 56 Rating, Add</i>		2,277.23	
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	10,134.27	1,397.68
		<i>For Class 52 Rating, Deduct</i>		-881.82	
		<i>For Class 54 Rating, Add</i>		1,227.90	
		<i>For Class 55 Rating, Add</i>		1,838.52	
		<i>For Class 56 Rating, Add</i>		2,441.13	
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	10,694.32	1,401.03
		<i>For Class 52 Rating, Deduct</i>		-942.87	
		<i>For Class 54 Rating, Add</i>		1,311.20	
		<i>For Class 55 Rating, Add</i>		1,962.40	
		<i>For Class 56 Rating, Add</i>		2,605.02	
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	11,254.36	1,404.39
		<i>For Class 52 Rating, Deduct</i>		-1,003.92	
		<i>For Class 54 Rating, Add</i>		1,394.51	
		<i>For Class 55 Rating, Add</i>		2,086.28	
		<i>For Class 56 Rating, Add</i>		2,768.92	
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	11,814.41	1,407.75
		<i>For Class 52 Rating, Deduct</i>		-1,064.96	
		<i>For Class 54 Rating, Add</i>		1,477.81	
		<i>For Class 55 Rating, Add</i>		2,210.16	
		<i>For Class 56 Rating, Add</i>		2,932.82	
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	12,374.47	1,411.11
		<i>For Class 52 Rating, Deduct</i>		-1,126.01	
		<i>For Class 54 Rating, Add</i>		1,561.12	
		<i>For Class 55 Rating, Add</i>		2,334.03	
		<i>For Class 56 Rating, Add</i>		3,096.71	
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	12,934.52	1,414.47
		<i>For Class 52 Rating, Deduct</i>		-1,187.05	
		<i>For Class 54 Rating, Add</i>		1,644.42	
		<i>For Class 55 Rating, Add</i>		2,457.91	
		<i>For Class 56 Rating, Add</i>		3,260.61	
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	13,494.57	1,417.83
		<i>For Class 52 Rating, Deduct</i>		-1,248.10	
		<i>For Class 54 Rating, Add</i>		1,727.73	
		<i>For Class 55 Rating, Add</i>		2,581.79	
		<i>For Class 56 Rating, Add</i>		3,424.51	
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	14,054.61	1,421.19
		<i>For Class 52 Rating, Deduct</i>		-1,309.14	
		<i>For Class 54 Rating, Add</i>		1,811.03	
		<i>For Class 55 Rating, Add</i>		2,705.67	
		<i>For Class 56 Rating, Add</i>		3,588.40	
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	14,614.67	1,424.55
		<i>For Class 52 Rating, Deduct</i>		-1,370.19	
		<i>For Class 54 Rating, Add</i>		1,894.34	
		<i>For Class 55 Rating, Add</i>		2,829.55	
		<i>For Class 56 Rating, Add</i>		3,752.30	
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	15,174.72	1,427.91
		<i>For Class 52 Rating, Deduct</i>		-1,431.23	
		<i>For Class 54 Rating, Add</i>		1,977.65	
		<i>For Class 55 Rating, Add</i>		2,953.43	
		<i>For Class 56 Rating, Add</i>		3,916.20	
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	15,734.77	1,431.27
		<i>For Class 52 Rating, Deduct</i>		-1,492.28	
		<i>For Class 54 Rating, Add</i>		2,060.95	
		<i>For Class 55 Rating, Add</i>		3,077.30	
		<i>For Class 56 Rating, Add</i>		4,080.09	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	16,294.82	1,434.63
For Class 52 Rating, Deduct	-1,553.33	
For Class 54 Rating, Add	2,144.26	
For Class 55 Rating, Add	3,201.18	
For Class 56 Rating, Add	4,243.99	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	16,854.87	1,437.99
For Class 52 Rating, Deduct	-1,614.37	
For Class 54 Rating, Add	2,227.56	
For Class 55 Rating, Add	3,325.06	
For Class 56 Rating, Add	4,407.89	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	17,414.92	1,441.34
For Class 52 Rating, Deduct	-1,675.42	
For Class 54 Rating, Add	2,310.87	
For Class 55 Rating, Add	3,448.94	
For Class 56 Rating, Add	4,571.78	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	17,974.97	1,444.71
For Class 52 Rating, Deduct	-1,736.46	
For Class 54 Rating, Add	2,394.17	
For Class 55 Rating, Add	3,572.82	
For Class 56 Rating, Add	4,735.68	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	18,535.03	1,448.07
For Class 52 Rating, Deduct	-1,797.51	
For Class 54 Rating, Add	2,477.48	
For Class 55 Rating, Add	3,696.70	
For Class 56 Rating, Add	4,899.57	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	19,095.07	1,451.43
For Class 52 Rating, Deduct	-1,858.55	
For Class 54 Rating, Add	2,560.78	
For Class 55 Rating, Add	3,820.57	
For Class 56 Rating, Add	5,063.47	
40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	19,655.12	1,454.79
For Class 52 Rating, Deduct	-1,919.60	
For Class 54 Rating, Add	2,644.09	
For Class 55 Rating, Add	3,944.45	
For Class 56 Rating, Add	5,227.37	
40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	20,215.18	1,458.15
For Class 52 Rating, Deduct	-1,980.64	
For Class 54 Rating, Add	2,727.39	
For Class 55 Rating, Add	4,068.33	
For Class 56 Rating, Add	5,391.26	
40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	20,775.22	1,461.50
For Class 52 Rating, Deduct	-2,041.69	
For Class 54 Rating, Add	2,810.69	
For Class 55 Rating, Add	4,192.21	
For Class 56 Rating, Add	5,555.16	
40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	21,335.26	1,464.86
For Class 52 Rating, Deduct	-2,102.73	
For Class 54 Rating, Add	2,894.00	
For Class 55 Rating, Add	4,316.08	
For Class 56 Rating, Add	5,719.05	
40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	21,895.31	1,468.23
For Class 52 Rating, Deduct	-2,163.78	
For Class 54 Rating, Add	2,977.30	
For Class 55 Rating, Add	4,439.96	
For Class 56 Rating, Add	5,882.95	
40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	22,455.37	1,471.59
For Class 52 Rating, Deduct	-2,224.83	
For Class 54 Rating, Add	3,060.61	
For Class 55 Rating, Add	4,563.84	
For Class 56 Rating, Add	6,046.85	
40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	23,015.42	1,474.95
For Class 52 Rating, Deduct	-2,285.87	
For Class 54 Rating, Add	3,143.91	
For Class 55 Rating, Add	4,687.72	
For Class 56 Rating, Add	6,210.74	
40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	23,575.47	1,478.31
For Class 52 Rating, Deduct	-2,346.92	
For Class 54 Rating, Add	3,227.22	
For Class 55 Rating, Add	4,811.60	
For Class 56 Rating, Add	6,374.64	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,135.51	1,481.66
			<i>For Class 52 Rating, Deduct</i>	-2,407.96	
			<i>For Class 54 Rating, Add</i>	3,310.52	
			<i>For Class 55 Rating, Add</i>	4,935.48	
			<i>For Class 56 Rating, Add</i>	6,538.54	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,695.57	1,485.02
			<i>For Class 52 Rating, Deduct</i>	-2,469.01	
			<i>For Class 54 Rating, Add</i>	3,393.83	
			<i>For Class 55 Rating, Add</i>	5,059.35	
			<i>For Class 56 Rating, Add</i>	6,702.43	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,255.62	1,488.38
			<i>For Class 52 Rating, Deduct</i>	-2,530.05	
			<i>For Class 54 Rating, Add</i>	3,477.14	
			<i>For Class 55 Rating, Add</i>	5,183.23	
			<i>For Class 56 Rating, Add</i>	6,866.33	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,815.67	1,491.75
			<i>For Class 52 Rating, Deduct</i>	-2,591.10	
			<i>For Class 54 Rating, Add</i>	3,560.44	
			<i>For Class 55 Rating, Add</i>	5,307.11	
			<i>For Class 56 Rating, Add</i>	7,030.23	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,375.73	1,495.11
			<i>For Class 52 Rating, Deduct</i>	-2,652.15	
			<i>For Class 54 Rating, Add</i>	3,643.75	
			<i>For Class 55 Rating, Add</i>	5,430.99	
			<i>For Class 56 Rating, Add</i>	7,194.12	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,935.77	1,498.47
			<i>For Class 52 Rating, Deduct</i>	-2,713.19	
			<i>For Class 54 Rating, Add</i>	3,727.05	
			<i>For Class 55 Rating, Add</i>	5,554.87	
			<i>For Class 56 Rating, Add</i>	7,358.02	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,495.82	1,501.82
			<i>For Class 52 Rating, Deduct</i>	-2,774.24	
			<i>For Class 54 Rating, Add</i>	3,810.36	
			<i>For Class 55 Rating, Add</i>	5,678.75	
			<i>For Class 56 Rating, Add</i>	7,521.91	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,055.87	1,505.18
			<i>For Class 52 Rating, Deduct</i>	-2,835.28	
			<i>For Class 54 Rating, Add</i>	3,893.66	
			<i>For Class 55 Rating, Add</i>	5,802.62	
			<i>For Class 56 Rating, Add</i>	7,685.81	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,615.93	1,508.54
			<i>For Class 52 Rating, Deduct</i>	-2,896.33	
			<i>For Class 54 Rating, Add</i>	3,976.97	
			<i>For Class 55 Rating, Add</i>	5,926.50	
			<i>For Class 56 Rating, Add</i>	7,849.71	
40 05 19 00-0989	EA		36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>	10,828.90	1,753.81
			<i>For Class 52 Rating, Deduct</i>	-898.88	
			<i>For Class 54 Rating, Add</i>	1,257.63	
			<i>For Class 55 Rating, Add</i>	1,886.04	
			<i>For Class 56 Rating, Add</i>	2,506.29	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,588.91	1,757.17
			<i>For Class 52 Rating, Deduct</i>	-981.92	
			<i>For Class 54 Rating, Add</i>	1,370.93	
			<i>For Class 55 Rating, Add</i>	2,054.52	
			<i>For Class 56 Rating, Add</i>	2,729.17	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,348.93	1,760.53
			<i>For Class 52 Rating, Deduct</i>	-1,064.96	
			<i>For Class 54 Rating, Add</i>	1,484.23	
			<i>For Class 55 Rating, Add</i>	2,222.98	
			<i>For Class 56 Rating, Add</i>	2,952.06	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,108.95	1,763.89
			<i>For Class 52 Rating, Deduct</i>	-1,148.00	
			<i>For Class 54 Rating, Add</i>	1,597.53	
			<i>For Class 55 Rating, Add</i>	2,391.46	
			<i>For Class 56 Rating, Add</i>	3,174.95	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,868.96	1,767.24
For Class 52 Rating, Deduct	-1,231.04	
For Class 54 Rating, Add	1,710.83	
For Class 55 Rating, Add	2,559.93	
For Class 56 Rating, Add	3,397.83	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,628.98	1,770.61
For Class 52 Rating, Deduct	-1,314.09	
For Class 54 Rating, Add	1,824.13	
For Class 55 Rating, Add	2,728.40	
For Class 56 Rating, Add	3,620.72	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,388.99	1,773.97
For Class 52 Rating, Deduct	-1,397.13	
For Class 54 Rating, Add	1,937.43	
For Class 55 Rating, Add	2,896.87	
For Class 56 Rating, Add	3,843.60	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,149.01	1,777.33
For Class 52 Rating, Deduct	-1,480.17	
For Class 54 Rating, Add	2,050.73	
For Class 55 Rating, Add	3,065.34	
For Class 56 Rating, Add	4,066.49	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,909.02	1,780.69
For Class 52 Rating, Deduct	-1,563.21	
For Class 54 Rating, Add	2,164.03	
For Class 55 Rating, Add	3,233.81	
For Class 56 Rating, Add	4,289.38	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,669.03	1,784.05
For Class 52 Rating, Deduct	-1,646.25	
For Class 54 Rating, Add	2,277.33	
For Class 55 Rating, Add	3,402.28	
For Class 56 Rating, Add	4,512.26	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,429.05	1,787.40
For Class 52 Rating, Deduct	-1,729.29	
For Class 54 Rating, Add	2,390.63	
For Class 55 Rating, Add	3,570.75	
For Class 56 Rating, Add	4,735.15	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,189.06	1,790.76
For Class 52 Rating, Deduct	-1,812.34	
For Class 54 Rating, Add	2,503.93	
For Class 55 Rating, Add	3,739.22	
For Class 56 Rating, Add	4,958.03	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,949.08	1,794.13
For Class 52 Rating, Deduct	-1,895.38	
For Class 54 Rating, Add	2,617.23	
For Class 55 Rating, Add	3,907.69	
For Class 56 Rating, Add	5,180.92	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,709.10	1,797.49
For Class 52 Rating, Deduct	-1,978.42	
For Class 54 Rating, Add	2,730.53	
For Class 55 Rating, Add	4,076.16	
For Class 56 Rating, Add	5,403.81	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,469.12	1,800.85
For Class 52 Rating, Deduct	-2,061.46	
For Class 54 Rating, Add	2,843.83	
For Class 55 Rating, Add	4,244.63	
For Class 56 Rating, Add	5,626.69	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,229.12	1,804.21
For Class 52 Rating, Deduct	-2,144.50	
For Class 54 Rating, Add	2,957.13	
For Class 55 Rating, Add	4,413.10	
For Class 56 Rating, Add	5,849.58	
40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,989.14	1,807.56
For Class 52 Rating, Deduct	-2,227.55	
For Class 54 Rating, Add	3,070.43	
For Class 55 Rating, Add	4,581.57	
For Class 56 Rating, Add	6,072.47	
40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,749.16	1,810.92
For Class 52 Rating, Deduct	-2,310.59	
For Class 54 Rating, Add	3,183.73	
For Class 55 Rating, Add	4,750.04	
For Class 56 Rating, Add	6,295.35	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1008	EA	36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		24,509.18	1,814.28
		<i>For Class 52 Rating, Deduct</i>		-2,393.63	
		<i>For Class 54 Rating, Add</i>		3,297.03	
		<i>For Class 55 Rating, Add</i>		4,918.51	
		<i>For Class 56 Rating, Add</i>		6,518.24	
40 05 19 00-1009	EA	36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		25,269.18	1,817.65
		<i>For Class 52 Rating, Deduct</i>		-2,476.67	
		<i>For Class 54 Rating, Add</i>		3,410.33	
		<i>For Class 55 Rating, Add</i>		5,086.98	
		<i>For Class 56 Rating, Add</i>		6,741.12	
40 05 19 00-1010	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,029.21	1,821.01
		<i>For Class 52 Rating, Deduct</i>		-2,559.71	
		<i>For Class 54 Rating, Add</i>		3,523.63	
		<i>For Class 55 Rating, Add</i>		5,255.45	
		<i>For Class 56 Rating, Add</i>		6,964.01	
40 05 19 00-1011	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,789.22	1,824.37
		<i>For Class 52 Rating, Deduct</i>		-2,642.75	
		<i>For Class 54 Rating, Add</i>		3,636.92	
		<i>For Class 55 Rating, Add</i>		5,423.92	
		<i>For Class 56 Rating, Add</i>		7,186.89	
40 05 19 00-1012	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		27,549.24	1,827.72
		<i>For Class 52 Rating, Deduct</i>		-2,725.80	
		<i>For Class 54 Rating, Add</i>		3,750.23	
		<i>For Class 55 Rating, Add</i>		5,592.39	
		<i>For Class 56 Rating, Add</i>		7,409.78	
40 05 19 00-1013	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		28,309.25	1,831.08
		<i>For Class 52 Rating, Deduct</i>		-2,808.84	
		<i>For Class 54 Rating, Add</i>		3,863.52	
		<i>For Class 55 Rating, Add</i>		5,760.86	
		<i>For Class 56 Rating, Add</i>		7,632.67	
40 05 19 00-1014	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		29,069.27	1,834.44
		<i>For Class 52 Rating, Deduct</i>		-2,891.88	
		<i>For Class 54 Rating, Add</i>		3,976.83	
		<i>For Class 55 Rating, Add</i>		5,929.33	
		<i>For Class 56 Rating, Add</i>		7,855.55	
40 05 19 00-1015	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		29,829.28	1,837.80
		<i>For Class 52 Rating, Deduct</i>		-2,974.92	
		<i>For Class 54 Rating, Add</i>		4,090.12	
		<i>For Class 55 Rating, Add</i>		6,097.80	
		<i>For Class 56 Rating, Add</i>		8,078.44	
40 05 19 00-1016	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		30,589.30	1,841.17
		<i>For Class 52 Rating, Deduct</i>		-3,057.96	
		<i>For Class 54 Rating, Add</i>		4,203.42	
		<i>For Class 55 Rating, Add</i>		6,266.28	
		<i>For Class 56 Rating, Add</i>		8,301.33	
40 05 19 00-1017	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		31,349.31	1,844.53
		<i>For Class 52 Rating, Deduct</i>		-3,141.00	
		<i>For Class 54 Rating, Add</i>		4,316.72	
		<i>For Class 55 Rating, Add</i>		6,434.74	
		<i>For Class 56 Rating, Add</i>		8,524.21	
40 05 19 00-1018	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		32,109.33	1,847.88
		<i>For Class 52 Rating, Deduct</i>		-3,224.05	
		<i>For Class 54 Rating, Add</i>		4,430.02	
		<i>For Class 55 Rating, Add</i>		6,603.22	
		<i>For Class 56 Rating, Add</i>		8,747.10	
40 05 19 00-1019	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		32,869.34	1,851.24
		<i>For Class 52 Rating, Deduct</i>		-3,307.09	
		<i>For Class 54 Rating, Add</i>		4,543.32	
		<i>For Class 55 Rating, Add</i>		6,771.69	
		<i>For Class 56 Rating, Add</i>		8,969.98	
40 05 19 00-1020	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		33,629.36	1,854.60
		<i>For Class 52 Rating, Deduct</i>		-3,390.13	
		<i>For Class 54 Rating, Add</i>		4,656.62	
		<i>For Class 55 Rating, Add</i>		6,940.16	
		<i>For Class 56 Rating, Add</i>		9,192.87	
40 05 19 00-1021	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		34,389.38	1,857.96
		<i>For Class 52 Rating, Deduct</i>		-3,473.17	
		<i>For Class 54 Rating, Add</i>		4,769.92	
		<i>For Class 55 Rating, Add</i>		7,108.63	
		<i>For Class 56 Rating, Add</i>		9,415.76	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1022 EA 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,149.40	1,861.32
For Class 52 Rating, Deduct	-3,556.21	
For Class 54 Rating, Add	4,883.22	
For Class 55 Rating, Add	7,277.10	
For Class 56 Rating, Add	9,638.64	
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,909.40	1,864.69
For Class 52 Rating, Deduct	-3,639.25	
For Class 54 Rating, Add	4,996.52	
For Class 55 Rating, Add	7,445.57	
For Class 56 Rating, Add	9,861.53	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,669.41	1,868.04
For Class 52 Rating, Deduct	-3,722.30	
For Class 54 Rating, Add	5,109.82	
For Class 55 Rating, Add	7,614.04	
For Class 56 Rating, Add	10,084.41	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,429.44	1,871.40
For Class 52 Rating, Deduct	-3,805.34	
For Class 54 Rating, Add	5,223.12	
For Class 55 Rating, Add	7,782.51	
For Class 56 Rating, Add	10,307.30	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,189.45	1,874.76
For Class 52 Rating, Deduct	-3,888.38	
For Class 54 Rating, Add	5,336.42	
For Class 55 Rating, Add	7,950.98	
For Class 56 Rating, Add	10,530.19	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,949.47	1,878.12
For Class 52 Rating, Deduct	-3,971.42	
For Class 54 Rating, Add	5,449.72	
For Class 55 Rating, Add	8,119.45	
For Class 56 Rating, Add	10,753.07	
40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	574.74	164.32
For Class 52 Rating, Deduct	-35.84	
For Class 54 Rating, Add	51.86	
For Class 55 Rating, Add	78.63	
For Class 56 Rating, Add	105.07	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	637.50	167.18
For Class 52 Rating, Deduct	-42.26	
For Class 54 Rating, Add	60.67	
For Class 55 Rating, Add	91.76	
For Class 56 Rating, Add	122.46	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	700.28	170.06
For Class 52 Rating, Deduct	-48.69	
For Class 54 Rating, Add	69.48	
For Class 55 Rating, Add	104.89	
For Class 56 Rating, Add	139.85	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	763.06	172.93
For Class 52 Rating, Deduct	-55.11	
For Class 54 Rating, Add	78.30	
For Class 55 Rating, Add	118.02	
For Class 56 Rating, Add	157.24	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	825.82	175.81
For Class 52 Rating, Deduct	-61.54	
For Class 54 Rating, Add	87.11	
For Class 55 Rating, Add	131.15	
For Class 56 Rating, Add	174.63	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	888.59	178.68
For Class 52 Rating, Deduct	-67.97	
For Class 54 Rating, Add	95.93	
For Class 55 Rating, Add	144.28	
For Class 56 Rating, Add	192.02	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	951.36	181.55
For Class 52 Rating, Deduct	-74.39	
For Class 54 Rating, Add	104.74	
For Class 55 Rating, Add	157.41	
For Class 56 Rating, Add	209.41	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,014.12	184.42
		<i>For Class 52 Rating, Deduct</i>		-80.82	
		<i>For Class 54 Rating, Add</i>		113.56	
		<i>For Class 55 Rating, Add</i>		170.54	
		<i>For Class 56 Rating, Add</i>		226.80	
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,076.89	187.30
		<i>For Class 52 Rating, Deduct</i>		-87.24	
		<i>For Class 54 Rating, Add</i>		122.37	
		<i>For Class 55 Rating, Add</i>		183.68	
		<i>For Class 56 Rating, Add</i>		244.19	
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,139.66	190.17
		<i>For Class 52 Rating, Deduct</i>		-93.67	
		<i>For Class 54 Rating, Add</i>		131.19	
		<i>For Class 55 Rating, Add</i>		196.81	
		<i>For Class 56 Rating, Add</i>		261.58	
40 05 19 00-1040	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,202.43	193.03
		<i>For Class 52 Rating, Deduct</i>		-100.09	
		<i>For Class 54 Rating, Add</i>		140.00	
		<i>For Class 55 Rating, Add</i>		209.94	
		<i>For Class 56 Rating, Add</i>		278.96	
40 05 19 00-1041	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,265.21	195.91
		<i>For Class 52 Rating, Deduct</i>		-106.52	
		<i>For Class 54 Rating, Add</i>		148.82	
		<i>For Class 55 Rating, Add</i>		223.07	
		<i>For Class 56 Rating, Add</i>		296.36	
40 05 19 00-1042	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,327.98	198.79
		<i>For Class 52 Rating, Deduct</i>		-112.95	
		<i>For Class 54 Rating, Add</i>		157.63	
		<i>For Class 55 Rating, Add</i>		236.20	
		<i>For Class 56 Rating, Add</i>		313.75	
40 05 19 00-1043	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,390.74	201.66
		<i>For Class 52 Rating, Deduct</i>		-119.37	
		<i>For Class 54 Rating, Add</i>		166.45	
		<i>For Class 55 Rating, Add</i>		249.33	
		<i>For Class 56 Rating, Add</i>		331.13	
40 05 19 00-1044	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,453.51	204.53
		<i>For Class 52 Rating, Deduct</i>		-125.80	
		<i>For Class 54 Rating, Add</i>		175.26	
		<i>For Class 55 Rating, Add</i>		262.46	
		<i>For Class 56 Rating, Add</i>		348.52	
40 05 19 00-1045	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,516.28	207.40
		<i>For Class 52 Rating, Deduct</i>		-132.22	
		<i>For Class 54 Rating, Add</i>		184.08	
		<i>For Class 55 Rating, Add</i>		275.60	
		<i>For Class 56 Rating, Add</i>		365.91	
40 05 19 00-1046	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,579.04	210.28
		<i>For Class 52 Rating, Deduct</i>		-138.65	
		<i>For Class 54 Rating, Add</i>		192.89	
		<i>For Class 55 Rating, Add</i>		288.73	
		<i>For Class 56 Rating, Add</i>		383.30	
40 05 19 00-1047	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,641.81	213.14
		<i>For Class 52 Rating, Deduct</i>		-145.08	
		<i>For Class 54 Rating, Add</i>		201.71	
		<i>For Class 55 Rating, Add</i>		301.86	
		<i>For Class 56 Rating, Add</i>		400.69	
40 05 19 00-1048	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,704.59	216.02
		<i>For Class 52 Rating, Deduct</i>		-151.50	
		<i>For Class 54 Rating, Add</i>		210.52	
		<i>For Class 55 Rating, Add</i>		314.99	
		<i>For Class 56 Rating, Add</i>		418.08	
40 05 19 00-1049	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,767.36	218.90
		<i>For Class 52 Rating, Deduct</i>		-157.93	
		<i>For Class 54 Rating, Add</i>		219.34	
		<i>For Class 55 Rating, Add</i>		328.12	
		<i>For Class 56 Rating, Add</i>		435.47	
40 05 19 00-1050	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,830.13	221.77
		<i>For Class 52 Rating, Deduct</i>		-164.35	
		<i>For Class 54 Rating, Add</i>		228.15	
		<i>For Class 55 Rating, Add</i>		341.25	
		<i>For Class 56 Rating, Add</i>		452.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051 EA 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,892.90	224.63
<i>For Class 52 Rating, Deduct</i>	-170.78	
<i>For Class 54 Rating, Add</i>	236.97	
<i>For Class 55 Rating, Add</i>	354.39	
<i>For Class 56 Rating, Add</i>	470.25	
40 05 19 00-1052 EA 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,955.67	227.51
<i>For Class 52 Rating, Deduct</i>	-177.21	
<i>For Class 54 Rating, Add</i>	245.78	
<i>For Class 55 Rating, Add</i>	367.52	
<i>For Class 56 Rating, Add</i>	487.64	
40 05 19 00-1053 EA 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,018.43	230.39
<i>For Class 52 Rating, Deduct</i>	-183.63	
<i>For Class 54 Rating, Add</i>	254.59	
<i>For Class 55 Rating, Add</i>	380.65	
<i>For Class 56 Rating, Add</i>	505.03	
40 05 19 00-1054 EA 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,081.20	233.25
<i>For Class 52 Rating, Deduct</i>	-190.06	
<i>For Class 54 Rating, Add</i>	263.41	
<i>For Class 55 Rating, Add</i>	393.78	
<i>For Class 56 Rating, Add</i>	522.42	
40 05 19 00-1055 EA 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,143.97	236.12
<i>For Class 52 Rating, Deduct</i>	-196.48	
<i>For Class 54 Rating, Add</i>	272.22	
<i>For Class 55 Rating, Add</i>	406.91	
<i>For Class 56 Rating, Add</i>	539.81	
40 05 19 00-1056 EA 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,206.74	239.00
<i>For Class 52 Rating, Deduct</i>	-202.91	
<i>For Class 54 Rating, Add</i>	281.04	
<i>For Class 55 Rating, Add</i>	420.04	
<i>For Class 56 Rating, Add</i>	557.20	
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,269.51	241.88
<i>For Class 52 Rating, Deduct</i>	-209.33	
<i>For Class 54 Rating, Add</i>	289.85	
<i>For Class 55 Rating, Add</i>	433.17	
<i>For Class 56 Rating, Add</i>	574.59	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,332.29	244.75
<i>For Class 52 Rating, Deduct</i>	-215.76	
<i>For Class 54 Rating, Add</i>	298.67	
<i>For Class 55 Rating, Add</i>	446.31	
<i>For Class 56 Rating, Add</i>	591.98	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,395.05	247.61
<i>For Class 52 Rating, Deduct</i>	-222.19	
<i>For Class 54 Rating, Add</i>	307.48	
<i>For Class 55 Rating, Add</i>	459.44	
<i>For Class 56 Rating, Add</i>	609.37	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,457.82	250.49
<i>For Class 52 Rating, Deduct</i>	-228.61	
<i>For Class 54 Rating, Add</i>	316.30	
<i>For Class 55 Rating, Add</i>	472.57	
<i>For Class 56 Rating, Add</i>	626.76	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,520.59	253.37
<i>For Class 52 Rating, Deduct</i>	-235.04	
<i>For Class 54 Rating, Add</i>	325.11	
<i>For Class 55 Rating, Add</i>	485.70	
<i>For Class 56 Rating, Add</i>	644.15	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,583.35	256.24
<i>For Class 52 Rating, Deduct</i>	-241.46	
<i>For Class 54 Rating, Add</i>	333.93	
<i>For Class 55 Rating, Add</i>	498.83	
<i>For Class 56 Rating, Add</i>	661.54	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,646.12	259.12
<i>For Class 52 Rating, Deduct</i>	-247.89	
<i>For Class 54 Rating, Add</i>	342.74	
<i>For Class 55 Rating, Add</i>	511.96	
<i>For Class 56 Rating, Add</i>	678.93	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,708.90	261.98
<i>For Class 52 Rating, Deduct</i>	-254.32	
<i>For Class 54 Rating, Add</i>	351.56	
<i>For Class 55 Rating, Add</i>	525.09	
<i>For Class 56 Rating, Add</i>	696.32	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,771.66	264.85
		<i>For Class 52 Rating, Deduct</i>		-260.74	
		<i>For Class 54 Rating, Add</i>		360.37	
		<i>For Class 55 Rating, Add</i>		538.22	
		<i>For Class 56 Rating, Add</i>		713.71	
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,834.43	267.73
		<i>For Class 52 Rating, Deduct</i>		-267.17	
		<i>For Class 54 Rating, Add</i>		369.19	
		<i>For Class 55 Rating, Add</i>		551.36	
		<i>For Class 56 Rating, Add</i>		731.10	
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,897.21	270.61
		<i>For Class 52 Rating, Deduct</i>		-273.59	
		<i>For Class 54 Rating, Add</i>		378.00	
		<i>For Class 55 Rating, Add</i>		564.49	
		<i>For Class 56 Rating, Add</i>		748.49	
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,959.97	273.48
		<i>For Class 52 Rating, Deduct</i>		-280.02	
		<i>For Class 54 Rating, Add</i>		386.82	
		<i>For Class 55 Rating, Add</i>		577.62	
		<i>For Class 56 Rating, Add</i>		765.87	
40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>					
40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		720.04	206.83
		<i>For Class 52 Rating, Deduct</i>		-44.73	
		<i>For Class 54 Rating, Add</i>		64.76	
		<i>For Class 55 Rating, Add</i>		98.21	
		<i>For Class 56 Rating, Add</i>		131.25	
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		796.30	209.70
		<i>For Class 52 Rating, Deduct</i>		-52.64	
		<i>For Class 54 Rating, Add</i>		75.60	
		<i>For Class 55 Rating, Add</i>		114.35	
		<i>For Class 56 Rating, Add</i>		152.62	
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		872.55	212.57
		<i>For Class 52 Rating, Deduct</i>		-60.55	
		<i>For Class 54 Rating, Add</i>		86.44	
		<i>For Class 55 Rating, Add</i>		130.48	
		<i>For Class 56 Rating, Add</i>		173.98	
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		948.80	215.45
		<i>For Class 52 Rating, Deduct</i>		-68.46	
		<i>For Class 54 Rating, Add</i>		97.27	
		<i>For Class 55 Rating, Add</i>		146.62	
		<i>For Class 56 Rating, Add</i>		195.35	
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,025.05	218.33
		<i>For Class 52 Rating, Deduct</i>		-76.37	
		<i>For Class 54 Rating, Add</i>		108.11	
		<i>For Class 55 Rating, Add</i>		162.76	
		<i>For Class 56 Rating, Add</i>		216.72	
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,101.30	221.18
		<i>For Class 52 Rating, Deduct</i>		-84.28	
		<i>For Class 54 Rating, Add</i>		118.95	
		<i>For Class 55 Rating, Add</i>		178.90	
		<i>For Class 56 Rating, Add</i>		238.08	
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,177.55	224.06
		<i>For Class 52 Rating, Deduct</i>		-92.19	
		<i>For Class 54 Rating, Add</i>		129.78	
		<i>For Class 55 Rating, Add</i>		195.04	
		<i>For Class 56 Rating, Add</i>		259.45	
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,253.79	226.94
		<i>For Class 52 Rating, Deduct</i>		-100.09	
		<i>For Class 54 Rating, Add</i>		140.62	
		<i>For Class 55 Rating, Add</i>		211.17	
		<i>For Class 56 Rating, Add</i>		280.81	
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,330.04	229.82
		<i>For Class 52 Rating, Deduct</i>		-108.00	
		<i>For Class 54 Rating, Add</i>		151.46	
		<i>For Class 55 Rating, Add</i>		227.31	
		<i>For Class 56 Rating, Add</i>		302.18	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,406.30	232.67
<i>For Class 52 Rating, Deduct</i>	-115.91	
<i>For Class 54 Rating, Add</i>	162.29	
<i>For Class 55 Rating, Add</i>	243.45	
<i>For Class 56 Rating, Add</i>	323.55	
40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,482.55	235.55
<i>For Class 52 Rating, Deduct</i>	-123.82	
<i>For Class 54 Rating, Add</i>	173.13	
<i>For Class 55 Rating, Add</i>	259.59	
<i>For Class 56 Rating, Add</i>	344.92	
40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,558.80	238.43
<i>For Class 52 Rating, Deduct</i>	-131.73	
<i>For Class 54 Rating, Add</i>	183.97	
<i>For Class 55 Rating, Add</i>	275.72	
<i>For Class 56 Rating, Add</i>	366.28	
40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,635.05	241.30
<i>For Class 52 Rating, Deduct</i>	-139.64	
<i>For Class 54 Rating, Add</i>	194.80	
<i>For Class 55 Rating, Add</i>	291.86	
<i>For Class 56 Rating, Add</i>	387.65	
40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,711.30	244.17
<i>For Class 52 Rating, Deduct</i>	-147.55	
<i>For Class 54 Rating, Add</i>	205.64	
<i>For Class 55 Rating, Add</i>	308.00	
<i>For Class 56 Rating, Add</i>	409.01	
40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,787.55	247.04
<i>For Class 52 Rating, Deduct</i>	-155.46	
<i>For Class 54 Rating, Add</i>	216.48	
<i>For Class 55 Rating, Add</i>	324.14	
<i>For Class 56 Rating, Add</i>	430.38	
40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,863.79	249.92
<i>For Class 52 Rating, Deduct</i>	-163.36	
<i>For Class 54 Rating, Add</i>	227.31	
<i>For Class 55 Rating, Add</i>	340.27	
<i>For Class 56 Rating, Add</i>	451.75	
40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,940.04	252.79
<i>For Class 52 Rating, Deduct</i>	-171.27	
<i>For Class 54 Rating, Add</i>	238.15	
<i>For Class 55 Rating, Add</i>	356.41	
<i>For Class 56 Rating, Add</i>	473.11	
40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,016.29	255.66
<i>For Class 52 Rating, Deduct</i>	-179.18	
<i>For Class 54 Rating, Add</i>	248.99	
<i>For Class 55 Rating, Add</i>	372.55	
<i>For Class 56 Rating, Add</i>	494.48	
40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.55	258.54
<i>For Class 52 Rating, Deduct</i>	-187.09	
<i>For Class 54 Rating, Add</i>	259.83	
<i>For Class 55 Rating, Add</i>	388.69	
<i>For Class 56 Rating, Add</i>	515.85	
40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,168.81	261.41
<i>For Class 52 Rating, Deduct</i>	-195.00	
<i>For Class 54 Rating, Add</i>	270.66	
<i>For Class 55 Rating, Add</i>	404.82	
<i>For Class 56 Rating, Add</i>	537.21	
40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,245.05	264.28
<i>For Class 52 Rating, Deduct</i>	-202.91	
<i>For Class 54 Rating, Add</i>	281.50	
<i>For Class 55 Rating, Add</i>	420.96	
<i>For Class 56 Rating, Add</i>	558.58	
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,321.30	267.15
<i>For Class 52 Rating, Deduct</i>	-210.82	
<i>For Class 54 Rating, Add</i>	292.34	
<i>For Class 55 Rating, Add</i>	437.10	
<i>For Class 56 Rating, Add</i>	579.95	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,397.55	270.03
<i>For Class 52 Rating, Deduct</i>	-218.73	
<i>For Class 54 Rating, Add</i>	303.17	
<i>For Class 55 Rating, Add</i>	453.24	
<i>For Class 56 Rating, Add</i>	601.31	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,473.80	272.89
		<i>For Class 52 Rating, Deduct</i>		-226.64	
		<i>For Class 54 Rating, Add</i>		314.01	
		<i>For Class 55 Rating, Add</i>		469.37	
		<i>For Class 56 Rating, Add</i>		622.68	
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,550.04	275.77
		<i>For Class 52 Rating, Deduct</i>		-234.54	
		<i>For Class 54 Rating, Add</i>		324.85	
		<i>For Class 55 Rating, Add</i>		485.51	
		<i>For Class 56 Rating, Add</i>		644.04	
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,626.29	278.65
		<i>For Class 52 Rating, Deduct</i>		-242.45	
		<i>For Class 54 Rating, Add</i>		335.68	
		<i>For Class 55 Rating, Add</i>		501.65	
		<i>For Class 56 Rating, Add</i>		665.41	
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,702.56	281.52
		<i>For Class 52 Rating, Deduct</i>		-250.36	
		<i>For Class 54 Rating, Add</i>		346.52	
		<i>For Class 55 Rating, Add</i>		517.79	
		<i>For Class 56 Rating, Add</i>		686.78	
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,778.81	284.39
		<i>For Class 52 Rating, Deduct</i>		-258.27	
		<i>For Class 54 Rating, Add</i>		357.36	
		<i>For Class 55 Rating, Add</i>		533.93	
		<i>For Class 56 Rating, Add</i>		708.15	
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,855.05	287.26
		<i>For Class 52 Rating, Deduct</i>		-266.18	
		<i>For Class 54 Rating, Add</i>		368.19	
		<i>For Class 55 Rating, Add</i>		550.06	
		<i>For Class 56 Rating, Add</i>		729.51	
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,931.30	290.14
		<i>For Class 52 Rating, Deduct</i>		-274.09	
		<i>For Class 54 Rating, Add</i>		379.03	
		<i>For Class 55 Rating, Add</i>		566.20	
		<i>For Class 56 Rating, Add</i>		750.88	
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,007.55	293.00
		<i>For Class 52 Rating, Deduct</i>		-282.00	
		<i>For Class 54 Rating, Add</i>		389.87	
		<i>For Class 55 Rating, Add</i>		582.34	
		<i>For Class 56 Rating, Add</i>		772.24	
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,083.80	295.88
		<i>For Class 52 Rating, Deduct</i>		-289.91	
		<i>For Class 54 Rating, Add</i>		400.70	
		<i>For Class 55 Rating, Add</i>		598.48	
		<i>For Class 56 Rating, Add</i>		793.61	
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,160.04	298.76
		<i>For Class 52 Rating, Deduct</i>		-297.81	
		<i>For Class 54 Rating, Add</i>		411.54	
		<i>For Class 55 Rating, Add</i>		614.61	
		<i>For Class 56 Rating, Add</i>		814.98	
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,236.29	301.63
		<i>For Class 52 Rating, Deduct</i>		-305.72	
		<i>For Class 54 Rating, Add</i>		422.38	
		<i>For Class 55 Rating, Add</i>		630.75	
		<i>For Class 56 Rating, Add</i>		836.34	
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,312.55	304.49
		<i>For Class 52 Rating, Deduct</i>		-313.63	
		<i>For Class 54 Rating, Add</i>		433.21	
		<i>For Class 55 Rating, Add</i>		646.89	
		<i>For Class 56 Rating, Add</i>		857.71	
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,388.81	307.37
		<i>For Class 52 Rating, Deduct</i>		-321.54	
		<i>For Class 54 Rating, Add</i>		444.05	
		<i>For Class 55 Rating, Add</i>		663.03	
		<i>For Class 56 Rating, Add</i>		879.08	
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,465.05	310.25
		<i>For Class 52 Rating, Deduct</i>		-329.45	
		<i>For Class 54 Rating, Add</i>		454.89	
		<i>For Class 55 Rating, Add</i>		679.16	
		<i>For Class 56 Rating, Add</i>		900.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,541.30	313.10
For Class 52 Rating, Deduct	-337.36	
For Class 54 Rating, Add	465.73	
For Class 55 Rating, Add	695.30	
For Class 56 Rating, Add	921.81	
40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,617.55	315.98
For Class 52 Rating, Deduct	-345.27	
For Class 54 Rating, Add	476.56	
For Class 55 Rating, Add	711.44	
For Class 56 Rating, Add	943.18	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.34	264.28
For Class 52 Rating, Deduct	-65.00	
For Class 54 Rating, Add	93.44	
For Class 55 Rating, Add	141.38	
For Class 56 Rating, Add	188.73	
40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,094.55	267.15
For Class 52 Rating, Deduct	-75.87	
For Class 54 Rating, Add	108.32	
For Class 55 Rating, Add	163.53	
For Class 56 Rating, Add	218.05	
40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,197.76	270.03
For Class 52 Rating, Deduct	-86.75	
For Class 54 Rating, Add	123.20	
For Class 55 Rating, Add	185.68	
For Class 56 Rating, Add	247.37	
40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,300.97	272.89
For Class 52 Rating, Deduct	-97.62	
For Class 54 Rating, Add	138.09	
For Class 55 Rating, Add	207.83	
For Class 56 Rating, Add	276.69	
40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,404.18	275.77
For Class 52 Rating, Deduct	-108.50	
For Class 54 Rating, Add	152.97	
For Class 55 Rating, Add	229.98	
For Class 56 Rating, Add	306.02	
40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,507.38	278.65
For Class 52 Rating, Deduct	-119.37	
For Class 54 Rating, Add	167.85	
For Class 55 Rating, Add	252.13	
For Class 56 Rating, Add	335.33	
40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,610.61	281.52
For Class 52 Rating, Deduct	-130.25	
For Class 54 Rating, Add	182.73	
For Class 55 Rating, Add	274.28	
For Class 56 Rating, Add	364.65	
40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,713.82	284.39
For Class 52 Rating, Deduct	-141.12	
For Class 54 Rating, Add	197.61	
For Class 55 Rating, Add	296.43	
For Class 56 Rating, Add	393.97	
40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,817.03	287.26
For Class 52 Rating, Deduct	-152.00	
For Class 54 Rating, Add	212.49	
For Class 55 Rating, Add	318.58	
For Class 56 Rating, Add	423.29	
40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.24	290.14
For Class 52 Rating, Deduct	-162.87	
For Class 54 Rating, Add	227.37	
For Class 55 Rating, Add	340.73	
For Class 56 Rating, Add	452.61	
40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,023.45	293.00
For Class 52 Rating, Deduct	-173.75	
For Class 54 Rating, Add	242.25	
For Class 55 Rating, Add	362.88	
For Class 56 Rating, Add	481.93	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,126.66	295.88
		<i>For Class 52 Rating, Deduct</i>		-184.62	
		<i>For Class 54 Rating, Add</i>		257.13	
		<i>For Class 55 Rating, Add</i>		385.03	
		<i>For Class 56 Rating, Add</i>		511.26	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,229.87	298.76
		<i>For Class 52 Rating, Deduct</i>		-195.49	
		<i>For Class 54 Rating, Add</i>		272.01	
		<i>For Class 55 Rating, Add</i>		407.18	
		<i>For Class 56 Rating, Add</i>		540.58	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,333.08	301.63
		<i>For Class 52 Rating, Deduct</i>		-206.37	
		<i>For Class 54 Rating, Add</i>		286.90	
		<i>For Class 55 Rating, Add</i>		429.33	
		<i>For Class 56 Rating, Add</i>		569.90	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,436.30	304.49
		<i>For Class 52 Rating, Deduct</i>		-217.24	
		<i>For Class 54 Rating, Add</i>		301.78	
		<i>For Class 55 Rating, Add</i>		451.48	
		<i>For Class 56 Rating, Add</i>		599.22	
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,539.52	307.37
		<i>For Class 52 Rating, Deduct</i>		-228.12	
		<i>For Class 54 Rating, Add</i>		316.66	
		<i>For Class 55 Rating, Add</i>		473.63	
		<i>For Class 56 Rating, Add</i>		628.54	
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,642.73	310.25
		<i>For Class 52 Rating, Deduct</i>		-238.99	
		<i>For Class 54 Rating, Add</i>		331.54	
		<i>For Class 55 Rating, Add</i>		495.78	
		<i>For Class 56 Rating, Add</i>		657.86	
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,745.93	313.10
		<i>For Class 52 Rating, Deduct</i>		-249.87	
		<i>For Class 54 Rating, Add</i>		346.42	
		<i>For Class 55 Rating, Add</i>		517.93	
		<i>For Class 56 Rating, Add</i>		687.17	
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,849.14	315.98
		<i>For Class 52 Rating, Deduct</i>		-260.74	
		<i>For Class 54 Rating, Add</i>		361.30	
		<i>For Class 55 Rating, Add</i>		540.08	
		<i>For Class 56 Rating, Add</i>		716.49	
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,952.35	318.86
		<i>For Class 52 Rating, Deduct</i>		-271.62	
		<i>For Class 54 Rating, Add</i>		376.18	
		<i>For Class 55 Rating, Add</i>		562.23	
		<i>For Class 56 Rating, Add</i>		745.82	
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,055.56	321.74
		<i>For Class 52 Rating, Deduct</i>		-282.49	
		<i>For Class 54 Rating, Add</i>		391.06	
		<i>For Class 55 Rating, Add</i>		584.38	
		<i>For Class 56 Rating, Add</i>		775.14	
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,158.77	324.61
		<i>For Class 52 Rating, Deduct</i>		-293.36	
		<i>For Class 54 Rating, Add</i>		405.94	
		<i>For Class 55 Rating, Add</i>		606.53	
		<i>For Class 56 Rating, Add</i>		804.46	
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,261.99	327.47
		<i>For Class 52 Rating, Deduct</i>		-304.24	
		<i>For Class 54 Rating, Add</i>		420.83	
		<i>For Class 55 Rating, Add</i>		628.68	
		<i>For Class 56 Rating, Add</i>		833.78	
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,365.21	330.35
		<i>For Class 52 Rating, Deduct</i>		-315.11	
		<i>For Class 54 Rating, Add</i>		435.71	
		<i>For Class 55 Rating, Add</i>		650.83	
		<i>For Class 56 Rating, Add</i>		863.10	
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,468.42	333.23
		<i>For Class 52 Rating, Deduct</i>		-325.99	
		<i>For Class 54 Rating, Add</i>		450.59	
		<i>For Class 55 Rating, Add</i>		672.98	
		<i>For Class 56 Rating, Add</i>		892.42	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,571.63	336.10
For Class 52 Rating, Deduct	-336.86	
For Class 54 Rating, Add	465.47	
For Class 55 Rating, Add	695.13	
For Class 56 Rating, Add	921.74	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,674.84	338.97
For Class 52 Rating, Deduct	-347.74	
For Class 54 Rating, Add	480.35	
For Class 55 Rating, Add	717.28	
For Class 56 Rating, Add	951.06	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,778.05	341.84
For Class 52 Rating, Deduct	-358.61	
For Class 54 Rating, Add	495.23	
For Class 55 Rating, Add	739.44	
For Class 56 Rating, Add	980.38	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,881.26	344.71
For Class 52 Rating, Deduct	-369.49	
For Class 54 Rating, Add	510.11	
For Class 55 Rating, Add	761.59	
For Class 56 Rating, Add	1,009.70	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,984.47	347.59
For Class 52 Rating, Deduct	-380.36	
For Class 54 Rating, Add	524.99	
For Class 55 Rating, Add	783.74	
For Class 56 Rating, Add	1,039.02	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,087.68	350.46
For Class 52 Rating, Deduct	-391.23	
For Class 54 Rating, Add	539.87	
For Class 55 Rating, Add	805.88	
For Class 56 Rating, Add	1,068.34	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,190.89	353.34
For Class 52 Rating, Deduct	-402.11	
For Class 54 Rating, Add	554.76	
For Class 55 Rating, Add	828.03	
For Class 56 Rating, Add	1,097.66	
40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,294.11	356.20
For Class 52 Rating, Deduct	-412.98	
For Class 54 Rating, Add	569.64	
For Class 55 Rating, Add	850.18	
For Class 56 Rating, Add	1,126.98	
40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,397.32	359.08
For Class 52 Rating, Deduct	-423.86	
For Class 54 Rating, Add	584.52	
For Class 55 Rating, Add	872.33	
For Class 56 Rating, Add	1,156.30	
40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,500.53	361.95
For Class 52 Rating, Deduct	-434.73	
For Class 54 Rating, Add	599.40	
For Class 55 Rating, Add	894.48	
For Class 56 Rating, Add	1,185.62	
40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,603.74	364.82
For Class 52 Rating, Deduct	-445.61	
For Class 54 Rating, Add	614.28	
For Class 55 Rating, Add	916.63	
For Class 56 Rating, Add	1,214.94	
40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,706.95	367.69
For Class 52 Rating, Deduct	-456.48	
For Class 54 Rating, Add	629.16	
For Class 55 Rating, Add	938.78	
For Class 56 Rating, Add	1,244.26	
40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,810.16	370.57
For Class 52 Rating, Deduct	-467.36	
For Class 54 Rating, Add	644.04	
For Class 55 Rating, Add	960.94	
For Class 56 Rating, Add	1,273.58	
40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,913.38	373.45
For Class 52 Rating, Deduct	-478.23	
For Class 54 Rating, Add	658.92	
For Class 55 Rating, Add	983.09	
For Class 56 Rating, Add	1,302.90	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.14	321.74
			For Class 52 Rating, Deduct	-83.78	
			For Class 54 Rating, Add	120.10	
			For Class 55 Rating, Add	181.55	
			For Class 56 Rating, Add	242.24	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,383.80	324.61
			For Class 52 Rating, Deduct	-98.12	
			For Class 54 Rating, Add	139.70	
			For Class 55 Rating, Add	210.72	
			For Class 56 Rating, Add	280.84	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,518.47	327.47
			For Class 52 Rating, Deduct	-112.45	
			For Class 54 Rating, Add	159.30	
			For Class 55 Rating, Add	239.88	
			For Class 56 Rating, Add	319.44	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,653.15	330.35
			For Class 52 Rating, Deduct	-126.79	
			For Class 54 Rating, Add	178.90	
			For Class 55 Rating, Add	269.04	
			For Class 56 Rating, Add	358.04	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,787.81	333.23
			For Class 52 Rating, Deduct	-141.12	
			For Class 54 Rating, Add	198.50	
			For Class 55 Rating, Add	298.21	
			For Class 56 Rating, Add	396.64	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,922.48	336.10
			For Class 52 Rating, Deduct	-155.46	
			For Class 54 Rating, Add	218.10	
			For Class 55 Rating, Add	327.37	
			For Class 56 Rating, Add	435.24	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,057.14	338.97
			For Class 52 Rating, Deduct	-169.79	
			For Class 54 Rating, Add	237.70	
			For Class 55 Rating, Add	356.54	
			For Class 56 Rating, Add	473.84	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.81	341.84
			For Class 52 Rating, Deduct	-184.13	
			For Class 54 Rating, Add	257.30	
			For Class 55 Rating, Add	385.70	
			For Class 56 Rating, Add	512.44	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,326.47	344.71
			For Class 52 Rating, Deduct	-198.46	
			For Class 54 Rating, Add	276.89	
			For Class 55 Rating, Add	414.87	
			For Class 56 Rating, Add	551.04	
40 05 19 00-1159	EA		10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,461.13	347.59
			For Class 52 Rating, Deduct	-212.79	
			For Class 54 Rating, Add	296.49	
			For Class 55 Rating, Add	444.03	
			For Class 56 Rating, Add	589.63	
40 05 19 00-1160	EA		10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,595.81	350.46
			For Class 52 Rating, Deduct	-227.13	
			For Class 54 Rating, Add	316.09	
			For Class 55 Rating, Add	473.20	
			For Class 56 Rating, Add	628.23	
40 05 19 00-1161	EA		10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,730.47	353.34
			For Class 52 Rating, Deduct	-241.46	
			For Class 54 Rating, Add	335.69	
			For Class 55 Rating, Add	502.36	
			For Class 56 Rating, Add	666.83	
40 05 19 00-1162	EA		10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,865.15	356.20
			For Class 52 Rating, Deduct	-255.80	
			For Class 54 Rating, Add	355.29	
			For Class 55 Rating, Add	531.53	
			For Class 56 Rating, Add	705.43	
40 05 19 00-1163	EA		10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.81	359.08
			For Class 52 Rating, Deduct	-270.13	
			For Class 54 Rating, Add	374.89	
			For Class 55 Rating, Add	560.69	
			For Class 56 Rating, Add	744.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,134.48	361.95
<i>For Class 52 Rating, Deduct</i>	-284.47	
<i>For Class 54 Rating, Add</i>	394.49	
<i>For Class 55 Rating, Add</i>	589.86	
<i>For Class 56 Rating, Add</i>	782.63	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,269.14	364.82
<i>For Class 52 Rating, Deduct</i>	-298.80	
<i>For Class 54 Rating, Add</i>	414.09	
<i>For Class 55 Rating, Add</i>	619.02	
<i>For Class 56 Rating, Add</i>	821.23	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,403.81	367.69
<i>For Class 52 Rating, Deduct</i>	-313.14	
<i>For Class 54 Rating, Add</i>	433.69	
<i>For Class 55 Rating, Add</i>	648.18	
<i>For Class 56 Rating, Add</i>	859.83	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,538.47	370.57
<i>For Class 52 Rating, Deduct</i>	-327.47	
<i>For Class 54 Rating, Add</i>	453.29	
<i>For Class 55 Rating, Add</i>	677.35	
<i>For Class 56 Rating, Add</i>	898.43	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,673.14	373.45
<i>For Class 52 Rating, Deduct</i>	-341.81	
<i>For Class 54 Rating, Add</i>	472.89	
<i>For Class 55 Rating, Add</i>	706.51	
<i>For Class 56 Rating, Add</i>	937.03	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,807.81	376.31
<i>For Class 52 Rating, Deduct</i>	-356.14	
<i>For Class 54 Rating, Add</i>	492.49	
<i>For Class 55 Rating, Add</i>	735.68	
<i>For Class 56 Rating, Add</i>	975.63	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,942.48	379.19
<i>For Class 52 Rating, Deduct</i>	-370.47	
<i>For Class 54 Rating, Add</i>	512.09	
<i>For Class 55 Rating, Add</i>	764.84	
<i>For Class 56 Rating, Add</i>	1,014.23	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,077.15	382.06
<i>For Class 52 Rating, Deduct</i>	-384.81	
<i>For Class 54 Rating, Add</i>	531.69	
<i>For Class 55 Rating, Add</i>	794.01	
<i>For Class 56 Rating, Add</i>	1,052.83	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,211.81	384.92
<i>For Class 52 Rating, Deduct</i>	-399.14	
<i>For Class 54 Rating, Add</i>	551.29	
<i>For Class 55 Rating, Add</i>	823.17	
<i>For Class 56 Rating, Add</i>	1,091.43	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,346.48	387.80
<i>For Class 52 Rating, Deduct</i>	-413.48	
<i>For Class 54 Rating, Add</i>	570.89	
<i>For Class 55 Rating, Add</i>	852.34	
<i>For Class 56 Rating, Add</i>	1,130.03	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,481.14	390.68
<i>For Class 52 Rating, Deduct</i>	-427.81	
<i>For Class 54 Rating, Add</i>	590.48	
<i>For Class 55 Rating, Add</i>	881.50	
<i>For Class 56 Rating, Add</i>	1,168.63	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,615.81	393.55
<i>For Class 52 Rating, Deduct</i>	-442.15	
<i>For Class 54 Rating, Add</i>	610.08	
<i>For Class 55 Rating, Add</i>	910.67	
<i>For Class 56 Rating, Add</i>	1,207.23	
40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,750.48	396.41
<i>For Class 52 Rating, Deduct</i>	-456.48	
<i>For Class 54 Rating, Add</i>	629.68	
<i>For Class 55 Rating, Add</i>	939.83	
<i>For Class 56 Rating, Add</i>	1,245.83	
40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,885.14	399.29
<i>For Class 52 Rating, Deduct</i>	-470.82	
<i>For Class 54 Rating, Add</i>	649.28	
<i>For Class 55 Rating, Add</i>	968.99	
<i>For Class 56 Rating, Add</i>	1,284.42	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,019.81	402.17
		<i>For Class 52 Rating, Deduct</i>		-485.15	
		<i>For Class 54 Rating, Add</i>		668.88	
		<i>For Class 55 Rating, Add</i>		998.16	
		<i>For Class 56 Rating, Add</i>		1,323.02	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,154.48	405.05
		<i>For Class 52 Rating, Deduct</i>		-499.49	
		<i>For Class 54 Rating, Add</i>		688.48	
		<i>For Class 55 Rating, Add</i>		1,027.32	
		<i>For Class 56 Rating, Add</i>		1,361.62	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,289.15	407.91
		<i>For Class 52 Rating, Deduct</i>		-513.82	
		<i>For Class 54 Rating, Add</i>		708.08	
		<i>For Class 55 Rating, Add</i>		1,056.49	
		<i>For Class 56 Rating, Add</i>		1,400.22	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,423.81	410.78
		<i>For Class 52 Rating, Deduct</i>		-528.16	
		<i>For Class 54 Rating, Add</i>		727.68	
		<i>For Class 55 Rating, Add</i>		1,085.65	
		<i>For Class 56 Rating, Add</i>		1,438.82	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,558.48	413.66
		<i>For Class 52 Rating, Deduct</i>		-542.49	
		<i>For Class 54 Rating, Add</i>		747.28	
		<i>For Class 55 Rating, Add</i>		1,114.82	
		<i>For Class 56 Rating, Add</i>		1,477.42	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,693.15	416.53
		<i>For Class 52 Rating, Deduct</i>		-556.82	
		<i>For Class 54 Rating, Add</i>		766.88	
		<i>For Class 55 Rating, Add</i>		1,143.98	
		<i>For Class 56 Rating, Add</i>		1,516.02	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,827.81	419.40
		<i>For Class 52 Rating, Deduct</i>		-571.16	
		<i>For Class 54 Rating, Add</i>		786.48	
		<i>For Class 55 Rating, Add</i>		1,173.15	
		<i>For Class 56 Rating, Add</i>		1,554.62	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,962.48	422.27
		<i>For Class 52 Rating, Deduct</i>		-585.49	
		<i>For Class 54 Rating, Add</i>		806.08	
		<i>For Class 55 Rating, Add</i>		1,202.31	
		<i>For Class 56 Rating, Add</i>		1,593.22	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,097.14	425.15
		<i>For Class 52 Rating, Deduct</i>		-599.83	
		<i>For Class 54 Rating, Add</i>		825.68	
		<i>For Class 55 Rating, Add</i>		1,231.47	
		<i>For Class 56 Rating, Add</i>		1,631.82	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,231.82	428.02
		<i>For Class 52 Rating, Deduct</i>		-614.16	
		<i>For Class 54 Rating, Add</i>		845.28	
		<i>For Class 55 Rating, Add</i>		1,260.64	
		<i>For Class 56 Rating, Add</i>		1,670.42	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,366.48	430.90
		<i>For Class 52 Rating, Deduct</i>		-628.50	
		<i>For Class 54 Rating, Add</i>		864.88	
		<i>For Class 55 Rating, Add</i>		1,289.80	
		<i>For Class 56 Rating, Add</i>		1,709.02	
40 05 19 00-1189		12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,624.89	402.17
		<i>For Class 52 Rating, Deduct</i>		-111.71	
		<i>For Class 54 Rating, Add</i>		159.64	
		<i>For Class 55 Rating, Add</i>		241.09	
		<i>For Class 56 Rating, Add</i>		321.52	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,793.27	405.05
		<i>For Class 52 Rating, Deduct</i>		-129.75	
		<i>For Class 54 Rating, Add</i>		184.30	
		<i>For Class 55 Rating, Add</i>		277.77	
		<i>For Class 56 Rating, Add</i>		370.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,961.64	407.91
<i>For Class 52 Rating, Deduct</i>	-147.79	
<i>For Class 54 Rating, Add</i>	208.96	
<i>For Class 55 Rating, Add</i>	314.45	
<i>For Class 56 Rating, Add</i>	418.61	
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,130.00	410.78
<i>For Class 52 Rating, Deduct</i>	-165.84	
<i>For Class 54 Rating, Add</i>	233.61	
<i>For Class 55 Rating, Add</i>	351.13	
<i>For Class 56 Rating, Add</i>	467.15	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.37	413.66
<i>For Class 52 Rating, Deduct</i>	-183.88	
<i>For Class 54 Rating, Add</i>	258.26	
<i>For Class 55 Rating, Add</i>	387.81	
<i>For Class 56 Rating, Add</i>	515.69	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,466.75	416.53
<i>For Class 52 Rating, Deduct</i>	-201.92	
<i>For Class 54 Rating, Add</i>	282.92	
<i>For Class 55 Rating, Add</i>	424.49	
<i>For Class 56 Rating, Add</i>	564.23	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,635.11	419.40
<i>For Class 52 Rating, Deduct</i>	-219.96	
<i>For Class 54 Rating, Add</i>	307.57	
<i>For Class 55 Rating, Add</i>	461.17	
<i>For Class 56 Rating, Add</i>	612.77	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,803.48	422.27
<i>For Class 52 Rating, Deduct</i>	-238.00	
<i>For Class 54 Rating, Add</i>	332.23	
<i>For Class 55 Rating, Add</i>	497.85	
<i>For Class 56 Rating, Add</i>	661.32	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,971.84	425.15
<i>For Class 52 Rating, Deduct</i>	-256.04	
<i>For Class 54 Rating, Add</i>	356.88	
<i>For Class 55 Rating, Add</i>	534.53	
<i>For Class 56 Rating, Add</i>	709.86	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,140.22	428.02
<i>For Class 52 Rating, Deduct</i>	-274.09	
<i>For Class 54 Rating, Add</i>	381.54	
<i>For Class 55 Rating, Add</i>	571.21	
<i>For Class 56 Rating, Add</i>	758.40	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,308.59	430.90
<i>For Class 52 Rating, Deduct</i>	-292.13	
<i>For Class 54 Rating, Add</i>	406.19	
<i>For Class 55 Rating, Add</i>	607.89	
<i>For Class 56 Rating, Add</i>	806.94	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,476.95	433.76
<i>For Class 52 Rating, Deduct</i>	-310.17	
<i>For Class 54 Rating, Add</i>	430.85	
<i>For Class 55 Rating, Add</i>	644.57	
<i>For Class 56 Rating, Add</i>	855.48	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,645.32	436.63
<i>For Class 52 Rating, Deduct</i>	-328.21	
<i>For Class 54 Rating, Add</i>	455.50	
<i>For Class 55 Rating, Add</i>	681.25	
<i>For Class 56 Rating, Add</i>	904.02	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,813.70	439.51
<i>For Class 52 Rating, Deduct</i>	-346.25	
<i>For Class 54 Rating, Add</i>	480.16	
<i>For Class 55 Rating, Add</i>	717.94	
<i>For Class 56 Rating, Add</i>	952.57	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,982.06	442.39
<i>For Class 52 Rating, Deduct</i>	-364.30	
<i>For Class 54 Rating, Add</i>	504.81	
<i>For Class 55 Rating, Add</i>	754.61	
<i>For Class 56 Rating, Add</i>	1,001.11	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,150.43	445.26
<i>For Class 52 Rating, Deduct</i>	-382.34	
<i>For Class 54 Rating, Add</i>	529.47	
<i>For Class 55 Rating, Add</i>	791.29	
<i>For Class 56 Rating, Add</i>	1,049.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1206	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,318.80	448.12
		<i>For Class 52 Rating, Deduct</i>		-400.38	
		<i>For Class 54 Rating, Add</i>		554.12	
		<i>For Class 55 Rating, Add</i>		827.98	
		<i>For Class 56 Rating, Add</i>		1,098.19	
40 05 19 00-1207	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,487.16	451.00
		<i>For Class 52 Rating, Deduct</i>		-418.42	
		<i>For Class 54 Rating, Add</i>		578.77	
		<i>For Class 55 Rating, Add</i>		864.65	
		<i>For Class 56 Rating, Add</i>		1,146.73	
40 05 19 00-1208	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,655.54	453.88
		<i>For Class 52 Rating, Deduct</i>		-436.46	
		<i>For Class 54 Rating, Add</i>		603.43	
		<i>For Class 55 Rating, Add</i>		901.34	
		<i>For Class 56 Rating, Add</i>		1,195.27	
40 05 19 00-1209	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,823.91	456.74
		<i>For Class 52 Rating, Deduct</i>		-454.51	
		<i>For Class 54 Rating, Add</i>		628.08	
		<i>For Class 55 Rating, Add</i>		938.02	
		<i>For Class 56 Rating, Add</i>		1,243.82	
40 05 19 00-1210	EA	12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,992.27	459.61
		<i>For Class 52 Rating, Deduct</i>		-472.55	
		<i>For Class 54 Rating, Add</i>		652.74	
		<i>For Class 55 Rating, Add</i>		974.69	
		<i>For Class 56 Rating, Add</i>		1,292.35	
40 05 19 00-1211	EA	12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,160.65	462.49
		<i>For Class 52 Rating, Deduct</i>		-490.59	
		<i>For Class 54 Rating, Add</i>		677.39	
		<i>For Class 55 Rating, Add</i>		1,011.38	
		<i>For Class 56 Rating, Add</i>		1,340.90	
40 05 19 00-1212	EA	12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,329.01	465.37
		<i>For Class 52 Rating, Deduct</i>		-508.63	
		<i>For Class 54 Rating, Add</i>		702.05	
		<i>For Class 55 Rating, Add</i>		1,048.05	
		<i>For Class 56 Rating, Add</i>		1,389.44	
40 05 19 00-1213	EA	12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,497.38	468.23
		<i>For Class 52 Rating, Deduct</i>		-526.67	
		<i>For Class 54 Rating, Add</i>		726.70	
		<i>For Class 55 Rating, Add</i>		1,084.74	
		<i>For Class 56 Rating, Add</i>		1,437.98	
40 05 19 00-1214	EA	12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,665.75	471.11
		<i>For Class 52 Rating, Deduct</i>		-544.71	
		<i>For Class 54 Rating, Add</i>		751.36	
		<i>For Class 55 Rating, Add</i>		1,121.42	
		<i>For Class 56 Rating, Add</i>		1,486.52	
40 05 19 00-1215	EA	12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,834.11	473.98
		<i>For Class 52 Rating, Deduct</i>		-562.76	
		<i>For Class 54 Rating, Add</i>		776.01	
		<i>For Class 55 Rating, Add</i>		1,158.09	
		<i>For Class 56 Rating, Add</i>		1,535.06	
40 05 19 00-1216	EA	12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,002.49	476.86
		<i>For Class 52 Rating, Deduct</i>		-580.80	
		<i>For Class 54 Rating, Add</i>		800.67	
		<i>For Class 55 Rating, Add</i>		1,194.78	
		<i>For Class 56 Rating, Add</i>		1,583.60	
40 05 19 00-1217	EA	12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,170.86	479.72
		<i>For Class 52 Rating, Deduct</i>		-598.84	
		<i>For Class 54 Rating, Add</i>		825.32	
		<i>For Class 55 Rating, Add</i>		1,231.46	
		<i>For Class 56 Rating, Add</i>		1,632.15	
40 05 19 00-1218	EA	12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,339.22	482.60
		<i>For Class 52 Rating, Deduct</i>		-616.88	
		<i>For Class 54 Rating, Add</i>		849.98	
		<i>For Class 55 Rating, Add</i>		1,268.14	
		<i>For Class 56 Rating, Add</i>		1,680.69	
40 05 19 00-1219	EA	12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,507.60	485.48
		<i>For Class 52 Rating, Deduct</i>		-634.92	
		<i>For Class 54 Rating, Add</i>		874.63	
		<i>For Class 55 Rating, Add</i>		1,304.82	
		<i>For Class 56 Rating, Add</i>		1,729.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,675.97	488.34
<i>For Class 52 Rating, Deduct</i>	-652.97	
<i>For Class 54 Rating, Add</i>	899.29	
<i>For Class 55 Rating, Add</i>	1,341.50	
<i>For Class 56 Rating, Add</i>	1,777.77	
40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,844.33	491.22
<i>For Class 52 Rating, Deduct</i>	-671.01	
<i>For Class 54 Rating, Add</i>	923.94	
<i>For Class 55 Rating, Add</i>	1,378.18	
<i>For Class 56 Rating, Add</i>	1,826.31	
40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,012.70	494.09
<i>For Class 52 Rating, Deduct</i>	-689.05	
<i>For Class 54 Rating, Add</i>	948.60	
<i>For Class 55 Rating, Add</i>	1,414.86	
<i>For Class 56 Rating, Add</i>	1,874.85	
40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,181.06	496.97
<i>For Class 52 Rating, Deduct</i>	-707.09	
<i>For Class 54 Rating, Add</i>	973.25	
<i>For Class 55 Rating, Add</i>	1,451.54	
<i>For Class 56 Rating, Add</i>	1,923.39	
40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,349.43	499.83
<i>For Class 52 Rating, Deduct</i>	-725.13	
<i>For Class 54 Rating, Add</i>	997.90	
<i>For Class 55 Rating, Add</i>	1,488.22	
<i>For Class 56 Rating, Add</i>	1,971.94	
40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,517.81	502.71
<i>For Class 52 Rating, Deduct</i>	-743.17	
<i>For Class 54 Rating, Add</i>	1,022.56	
<i>For Class 55 Rating, Add</i>	1,524.90	
<i>For Class 56 Rating, Add</i>	2,020.48	
40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,686.17	505.58
<i>For Class 52 Rating, Deduct</i>	-761.22	
<i>For Class 54 Rating, Add</i>	1,047.21	
<i>For Class 55 Rating, Add</i>	1,561.58	
<i>For Class 56 Rating, Add</i>	2,069.02	
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,854.55	508.45
<i>For Class 52 Rating, Deduct</i>	-779.26	
<i>For Class 54 Rating, Add</i>	1,071.87	
<i>For Class 55 Rating, Add</i>	1,598.26	
<i>For Class 56 Rating, Add</i>	2,117.56	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,022.92	511.33
<i>For Class 52 Rating, Deduct</i>	-797.30	
<i>For Class 54 Rating, Add</i>	1,096.52	
<i>For Class 55 Rating, Add</i>	1,634.94	
<i>For Class 56 Rating, Add</i>	2,166.10	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,180.40	482.60
<i>For Class 52 Rating, Deduct</i>	-159.41	
<i>For Class 54 Rating, Add</i>	226.15	
<i>For Class 55 Rating, Add</i>	340.72	
<i>For Class 56 Rating, Add</i>	453.83	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,384.72	485.48
<i>For Class 52 Rating, Deduct</i>	-181.41	
<i>For Class 54 Rating, Add</i>	256.20	
<i>For Class 55 Rating, Add</i>	385.41	
<i>For Class 56 Rating, Add</i>	512.98	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,589.04	488.34
<i>For Class 52 Rating, Deduct</i>	-203.40	
<i>For Class 54 Rating, Add</i>	286.25	
<i>For Class 55 Rating, Add</i>	430.11	
<i>For Class 56 Rating, Add</i>	572.13	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,793.35	491.22
<i>For Class 52 Rating, Deduct</i>	-225.40	
<i>For Class 54 Rating, Add</i>	316.29	
<i>For Class 55 Rating, Add</i>	474.81	
<i>For Class 56 Rating, Add</i>	631.27	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,997.67	494.09
		<i>For Class 52 Rating, Deduct</i>		-247.40	
		<i>For Class 54 Rating, Add</i>		346.34	
		<i>For Class 55 Rating, Add</i>		519.51	
		<i>For Class 56 Rating, Add</i>		690.42	
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,201.98	496.97
		<i>For Class 52 Rating, Deduct</i>		-269.39	
		<i>For Class 54 Rating, Add</i>		376.39	
		<i>For Class 55 Rating, Add</i>		564.20	
		<i>For Class 56 Rating, Add</i>		749.56	
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,406.30	499.83
		<i>For Class 52 Rating, Deduct</i>		-291.39	
		<i>For Class 54 Rating, Add</i>		406.43	
		<i>For Class 55 Rating, Add</i>		608.90	
		<i>For Class 56 Rating, Add</i>		808.71	
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,610.62	502.71
		<i>For Class 52 Rating, Deduct</i>		-313.38	
		<i>For Class 54 Rating, Add</i>		436.48	
		<i>For Class 55 Rating, Add</i>		653.59	
		<i>For Class 56 Rating, Add</i>		867.86	
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,814.94	505.58
		<i>For Class 52 Rating, Deduct</i>		-335.38	
		<i>For Class 54 Rating, Add</i>		466.53	
		<i>For Class 55 Rating, Add</i>		698.29	
		<i>For Class 56 Rating, Add</i>		927.01	
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,019.26	508.45
		<i>For Class 52 Rating, Deduct</i>		-357.38	
		<i>For Class 54 Rating, Add</i>		496.58	
		<i>For Class 55 Rating, Add</i>		742.99	
		<i>For Class 56 Rating, Add</i>		986.15	
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,223.58	511.33
		<i>For Class 52 Rating, Deduct</i>		-379.37	
		<i>For Class 54 Rating, Add</i>		526.62	
		<i>For Class 55 Rating, Add</i>		787.69	
		<i>For Class 56 Rating, Add</i>		1,045.30	
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,427.89	514.20
		<i>For Class 52 Rating, Deduct</i>		-401.37	
		<i>For Class 54 Rating, Add</i>		556.67	
		<i>For Class 55 Rating, Add</i>		832.38	
		<i>For Class 56 Rating, Add</i>		1,104.44	
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,632.21	517.07
		<i>For Class 52 Rating, Deduct</i>		-423.36	
		<i>For Class 54 Rating, Add</i>		586.72	
		<i>For Class 55 Rating, Add</i>		877.08	
		<i>For Class 56 Rating, Add</i>		1,163.59	
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,836.52	519.94
		<i>For Class 52 Rating, Deduct</i>		-445.36	
		<i>For Class 54 Rating, Add</i>		616.76	
		<i>For Class 55 Rating, Add</i>		921.77	
		<i>For Class 56 Rating, Add</i>		1,222.74	
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,040.84	522.82
		<i>For Class 52 Rating, Deduct</i>		-467.36	
		<i>For Class 54 Rating, Add</i>		646.81	
		<i>For Class 55 Rating, Add</i>		966.47	
		<i>For Class 56 Rating, Add</i>		1,281.88	
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,245.15	525.70
		<i>For Class 52 Rating, Deduct</i>		-489.35	
		<i>For Class 54 Rating, Add</i>		676.86	
		<i>For Class 55 Rating, Add</i>		1,011.17	
		<i>For Class 56 Rating, Add</i>		1,341.03	
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,449.48	528.55
		<i>For Class 52 Rating, Deduct</i>		-511.35	
		<i>For Class 54 Rating, Add</i>		706.90	
		<i>For Class 55 Rating, Add</i>		1,055.86	
		<i>For Class 56 Rating, Add</i>		1,400.18	
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,653.80	531.43
		<i>For Class 52 Rating, Deduct</i>		-533.34	
		<i>For Class 54 Rating, Add</i>		736.95	
		<i>For Class 55 Rating, Add</i>		1,100.56	
		<i>For Class 56 Rating, Add</i>		1,459.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,858.12	534.31
<i>For Class 52 Rating, Deduct</i>	-555.34	
<i>For Class 54 Rating, Add</i>	767.00	
<i>For Class 55 Rating, Add</i>	1,145.26	
<i>For Class 56 Rating, Add</i>	1,518.47	
40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,062.43	537.19
<i>For Class 52 Rating, Deduct</i>	-577.34	
<i>For Class 54 Rating, Add</i>	797.04	
<i>For Class 55 Rating, Add</i>	1,189.95	
<i>For Class 56 Rating, Add</i>	1,577.61	
40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,266.75	540.04
<i>For Class 52 Rating, Deduct</i>	-599.33	
<i>For Class 54 Rating, Add</i>	827.09	
<i>For Class 55 Rating, Add</i>	1,234.65	
<i>For Class 56 Rating, Add</i>	1,636.76	
40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,471.07	542.92
<i>For Class 52 Rating, Deduct</i>	-621.33	
<i>For Class 54 Rating, Add</i>	857.14	
<i>For Class 55 Rating, Add</i>	1,279.35	
<i>For Class 56 Rating, Add</i>	1,695.91	
40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,675.38	545.80
<i>For Class 52 Rating, Deduct</i>	-643.33	
<i>For Class 54 Rating, Add</i>	887.19	
<i>For Class 55 Rating, Add</i>	1,324.04	
<i>For Class 56 Rating, Add</i>	1,755.05	
40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,879.70	548.68
<i>For Class 52 Rating, Deduct</i>	-665.32	
<i>For Class 54 Rating, Add</i>	917.23	
<i>For Class 55 Rating, Add</i>	1,368.74	
<i>For Class 56 Rating, Add</i>	1,814.20	
40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,084.03	551.54
<i>For Class 52 Rating, Deduct</i>	-687.32	
<i>For Class 54 Rating, Add</i>	947.28	
<i>For Class 55 Rating, Add</i>	1,413.44	
<i>For Class 56 Rating, Add</i>	1,873.35	
40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,288.35	554.41
<i>For Class 52 Rating, Deduct</i>	-709.32	
<i>For Class 54 Rating, Add</i>	977.33	
<i>For Class 55 Rating, Add</i>	1,458.14	
<i>For Class 56 Rating, Add</i>	1,932.50	
40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,492.66	557.29
<i>For Class 52 Rating, Deduct</i>	-731.31	
<i>For Class 54 Rating, Add</i>	1,007.37	
<i>For Class 55 Rating, Add</i>	1,502.83	
<i>For Class 56 Rating, Add</i>	1,991.64	
40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,696.98	560.16
<i>For Class 52 Rating, Deduct</i>	-753.31	
<i>For Class 54 Rating, Add</i>	1,037.42	
<i>For Class 55 Rating, Add</i>	1,547.53	
<i>For Class 56 Rating, Add</i>	2,050.79	
40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,901.29	563.03
<i>For Class 52 Rating, Deduct</i>	-775.30	
<i>For Class 54 Rating, Add</i>	1,067.47	
<i>For Class 55 Rating, Add</i>	1,592.22	
<i>For Class 56 Rating, Add</i>	2,109.93	
40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,105.61	565.91
<i>For Class 52 Rating, Deduct</i>	-797.30	
<i>For Class 54 Rating, Add</i>	1,097.52	
<i>For Class 55 Rating, Add</i>	1,636.92	
<i>For Class 56 Rating, Add</i>	2,169.08	
40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,309.92	568.78
<i>For Class 52 Rating, Deduct</i>	-819.30	
<i>For Class 54 Rating, Add</i>	1,127.56	
<i>For Class 55 Rating, Add</i>	1,681.62	
<i>For Class 56 Rating, Add</i>	2,228.23	
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,514.24	571.65
<i>For Class 52 Rating, Deduct</i>	-841.29	
<i>For Class 54 Rating, Add</i>	1,157.61	
<i>For Class 55 Rating, Add</i>	1,726.32	
<i>For Class 56 Rating, Add</i>	2,287.37	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,718.56	574.53
		<i>For Class 52 Rating, Deduct</i>		-863.29	
		<i>For Class 54 Rating, Add</i>		1,187.66	
		<i>For Class 55 Rating, Add</i>		1,771.01	
		<i>For Class 56 Rating, Add</i>		2,346.52	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,922.89	577.40
		<i>For Class 52 Rating, Deduct</i>		-885.28	
		<i>For Class 54 Rating, Add</i>		1,217.70	
		<i>For Class 55 Rating, Add</i>		1,815.71	
		<i>For Class 56 Rating, Add</i>		2,405.67	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,127.20	580.26
		<i>For Class 52 Rating, Deduct</i>		-907.28	
		<i>For Class 54 Rating, Add</i>		1,247.75	
		<i>For Class 55 Rating, Add</i>		1,860.40	
		<i>For Class 56 Rating, Add</i>		2,464.81	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,331.52	583.14
		<i>For Class 52 Rating, Deduct</i>		-929.28	
		<i>For Class 54 Rating, Add</i>		1,277.80	
		<i>For Class 55 Rating, Add</i>		1,905.10	
		<i>For Class 56 Rating, Add</i>		2,523.96	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,535.83	586.02
		<i>For Class 52 Rating, Deduct</i>		-951.27	
		<i>For Class 54 Rating, Add</i>		1,307.84	
		<i>For Class 55 Rating, Add</i>		1,949.80	
		<i>For Class 56 Rating, Add</i>		2,583.10	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,740.15	588.89
		<i>For Class 52 Rating, Deduct</i>		-973.27	
		<i>For Class 54 Rating, Add</i>		1,337.89	
		<i>For Class 55 Rating, Add</i>		1,994.50	
		<i>For Class 56 Rating, Add</i>		2,642.25	
40 05 19 00-1268		16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>			
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,549.99	551.54
		<i>For Class 52 Rating, Deduct</i>		-188.57	
		<i>For Class 54 Rating, Add</i>		267.17	
		<i>For Class 55 Rating, Add</i>		402.35	
		<i>For Class 56 Rating, Add</i>		535.81	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,788.01	554.41
		<i>For Class 52 Rating, Deduct</i>		-214.28	
		<i>For Class 54 Rating, Add</i>		302.28	
		<i>For Class 55 Rating, Add</i>		454.56	
		<i>For Class 56 Rating, Add</i>		604.90	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,026.02	557.29
		<i>For Class 52 Rating, Deduct</i>		-239.98	
		<i>For Class 54 Rating, Add</i>		337.38	
		<i>For Class 55 Rating, Add</i>		506.77	
		<i>For Class 56 Rating, Add</i>		673.98	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,264.04	560.16
		<i>For Class 52 Rating, Deduct</i>		-265.68	
		<i>For Class 54 Rating, Add</i>		372.48	
		<i>For Class 55 Rating, Add</i>		558.98	
		<i>For Class 56 Rating, Add</i>		743.07	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,502.06	563.03
		<i>For Class 52 Rating, Deduct</i>		-291.39	
		<i>For Class 54 Rating, Add</i>		407.58	
		<i>For Class 55 Rating, Add</i>		611.20	
		<i>For Class 56 Rating, Add</i>		812.16	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,740.07	565.91
		<i>For Class 52 Rating, Deduct</i>		-317.09	
		<i>For Class 54 Rating, Add</i>		442.69	
		<i>For Class 55 Rating, Add</i>		663.41	
		<i>For Class 56 Rating, Add</i>		881.25	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,978.09	568.78
		<i>For Class 52 Rating, Deduct</i>		-342.79	
		<i>For Class 54 Rating, Add</i>		477.79	
		<i>For Class 55 Rating, Add</i>		715.62	
		<i>For Class 56 Rating, Add</i>		950.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,216.11	571.65
<i>For Class 52 Rating, Deduct</i>	-368.50	
<i>For Class 54 Rating, Add</i>	512.89	
<i>For Class 55 Rating, Add</i>	767.83	
<i>For Class 56 Rating, Add</i>	1,019.42	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,454.14	574.53
<i>For Class 52 Rating, Deduct</i>	-394.20	
<i>For Class 54 Rating, Add</i>	547.99	
<i>For Class 55 Rating, Add</i>	820.05	
<i>For Class 56 Rating, Add</i>	1,088.51	
40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,692.16	577.40
<i>For Class 52 Rating, Deduct</i>	-419.90	
<i>For Class 54 Rating, Add</i>	583.09	
<i>For Class 55 Rating, Add</i>	872.26	
<i>For Class 56 Rating, Add</i>	1,157.60	
40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,930.18	580.26
<i>For Class 52 Rating, Deduct</i>	-445.61	
<i>For Class 54 Rating, Add</i>	618.20	
<i>For Class 55 Rating, Add</i>	924.47	
<i>For Class 56 Rating, Add</i>	1,226.69	
40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,168.20	583.14
<i>For Class 52 Rating, Deduct</i>	-471.31	
<i>For Class 54 Rating, Add</i>	653.30	
<i>For Class 55 Rating, Add</i>	976.68	
<i>For Class 56 Rating, Add</i>	1,295.78	
40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,406.21	586.02
<i>For Class 52 Rating, Deduct</i>	-497.01	
<i>For Class 54 Rating, Add</i>	688.40	
<i>For Class 55 Rating, Add</i>	1,028.89	
<i>For Class 56 Rating, Add</i>	1,364.87	
40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,644.23	588.89
<i>For Class 52 Rating, Deduct</i>	-522.72	
<i>For Class 54 Rating, Add</i>	723.50	
<i>For Class 55 Rating, Add</i>	1,081.11	
<i>For Class 56 Rating, Add</i>	1,433.96	
40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,882.25	591.76
<i>For Class 52 Rating, Deduct</i>	-548.42	
<i>For Class 54 Rating, Add</i>	758.61	
<i>For Class 55 Rating, Add</i>	1,133.32	
<i>For Class 56 Rating, Add</i>	1,503.04	
40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,120.27	594.63
<i>For Class 52 Rating, Deduct</i>	-574.13	
<i>For Class 54 Rating, Add</i>	793.71	
<i>For Class 55 Rating, Add</i>	1,185.53	
<i>For Class 56 Rating, Add</i>	1,572.13	
40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,358.29	597.51
<i>For Class 52 Rating, Deduct</i>	-599.83	
<i>For Class 54 Rating, Add</i>	828.81	
<i>For Class 55 Rating, Add</i>	1,237.74	
<i>For Class 56 Rating, Add</i>	1,641.22	
40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,596.32	600.37
<i>For Class 52 Rating, Deduct</i>	-625.53	
<i>For Class 54 Rating, Add</i>	863.91	
<i>For Class 55 Rating, Add</i>	1,289.96	
<i>For Class 56 Rating, Add</i>	1,710.31	
40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,834.34	603.25
<i>For Class 52 Rating, Deduct</i>	-651.24	
<i>For Class 54 Rating, Add</i>	899.02	
<i>For Class 55 Rating, Add</i>	1,342.17	
<i>For Class 56 Rating, Add</i>	1,779.40	
40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,072.36	606.12
<i>For Class 52 Rating, Deduct</i>	-676.94	
<i>For Class 54 Rating, Add</i>	934.12	
<i>For Class 55 Rating, Add</i>	1,394.38	
<i>For Class 56 Rating, Add</i>	1,848.49	
40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,310.37	609.00
<i>For Class 52 Rating, Deduct</i>	-702.64	
<i>For Class 54 Rating, Add</i>	969.22	
<i>For Class 55 Rating, Add</i>	1,446.59	
<i>For Class 56 Rating, Add</i>	1,917.57	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,548.39	611.86
			<i>For Class 52 Rating, Deduct</i>	-728.35	
			<i>For Class 54 Rating, Add</i>	1,004.32	
			<i>For Class 55 Rating, Add</i>	1,498.80	
			<i>For Class 56 Rating, Add</i>	1,986.66	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,786.41	614.74
			<i>For Class 52 Rating, Deduct</i>	-754.05	
			<i>For Class 54 Rating, Add</i>	1,039.43	
			<i>For Class 55 Rating, Add</i>	1,551.02	
			<i>For Class 56 Rating, Add</i>	2,055.75	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,024.42	617.62
			<i>For Class 52 Rating, Deduct</i>	-779.75	
			<i>For Class 54 Rating, Add</i>	1,074.53	
			<i>For Class 55 Rating, Add</i>	1,603.23	
			<i>For Class 56 Rating, Add</i>	2,124.84	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,262.45	620.49
			<i>For Class 52 Rating, Deduct</i>	-805.46	
			<i>For Class 54 Rating, Add</i>	1,109.63	
			<i>For Class 55 Rating, Add</i>	1,655.44	
			<i>For Class 56 Rating, Add</i>	2,193.93	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,500.47	623.35
			<i>For Class 52 Rating, Deduct</i>	-831.16	
			<i>For Class 54 Rating, Add</i>	1,144.73	
			<i>For Class 55 Rating, Add</i>	1,707.65	
			<i>For Class 56 Rating, Add</i>	2,263.02	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,738.50	626.23
			<i>For Class 52 Rating, Deduct</i>	-856.86	
			<i>For Class 54 Rating, Add</i>	1,179.84	
			<i>For Class 55 Rating, Add</i>	1,759.87	
			<i>For Class 56 Rating, Add</i>	2,332.11	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,976.51	629.11
			<i>For Class 52 Rating, Deduct</i>	-882.57	
			<i>For Class 54 Rating, Add</i>	1,214.94	
			<i>For Class 55 Rating, Add</i>	1,812.08	
			<i>For Class 56 Rating, Add</i>	2,401.19	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,214.53	631.97
			<i>For Class 52 Rating, Deduct</i>	-908.27	
			<i>For Class 54 Rating, Add</i>	1,250.04	
			<i>For Class 55 Rating, Add</i>	1,864.29	
			<i>For Class 56 Rating, Add</i>	2,470.28	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,452.55	634.84
			<i>For Class 52 Rating, Deduct</i>	-933.97	
			<i>For Class 54 Rating, Add</i>	1,285.14	
			<i>For Class 55 Rating, Add</i>	1,916.50	
			<i>For Class 56 Rating, Add</i>	2,539.37	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,690.56	637.72
			<i>For Class 52 Rating, Deduct</i>	-959.68	
			<i>For Class 54 Rating, Add</i>	1,320.24	
			<i>For Class 55 Rating, Add</i>	1,968.71	
			<i>For Class 56 Rating, Add</i>	2,608.46	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,928.58	640.60
			<i>For Class 52 Rating, Deduct</i>	-985.38	
			<i>For Class 54 Rating, Add</i>	1,355.35	
			<i>For Class 55 Rating, Add</i>	2,020.93	
			<i>For Class 56 Rating, Add</i>	2,677.55	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,166.61	643.47
			<i>For Class 52 Rating, Deduct</i>	-1,011.08	
			<i>For Class 54 Rating, Add</i>	1,390.45	
			<i>For Class 55 Rating, Add</i>	2,073.14	
			<i>For Class 56 Rating, Add</i>	2,746.64	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,404.63	646.33
			<i>For Class 52 Rating, Deduct</i>	-1,036.79	
			<i>For Class 54 Rating, Add</i>	1,425.55	
			<i>For Class 55 Rating, Add</i>	2,125.35	
			<i>For Class 56 Rating, Add</i>	2,815.73	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,642.65	649.21
			<i>For Class 52 Rating, Deduct</i>	-1,062.49	
			<i>For Class 54 Rating, Add</i>	1,460.65	
			<i>For Class 55 Rating, Add</i>	2,177.56	
			<i>For Class 56 Rating, Add</i>	2,884.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,880.67	652.08
For Class 52 Rating, Deduct	-1,088.19	
For Class 54 Rating, Add	1,495.76	
For Class 55 Rating, Add	2,229.78	
For Class 56 Rating, Add	2,953.90	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,118.69	654.96
For Class 52 Rating, Deduct	-1,113.90	
For Class 54 Rating, Add	1,530.86	
For Class 55 Rating, Add	2,281.99	
For Class 56 Rating, Add	3,022.99	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,356.70	657.83
For Class 52 Rating, Deduct	-1,139.60	
For Class 54 Rating, Add	1,565.96	
For Class 55 Rating, Add	2,334.20	
For Class 56 Rating, Add	3,092.08	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,952.77	621.63
For Class 52 Rating, Deduct	-221.20	
For Class 54 Rating, Add	312.94	
For Class 55 Rating, Add	471.03	
For Class 56 Rating, Add	627.12	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,226.73	624.51
For Class 52 Rating, Deduct	-250.86	
For Class 54 Rating, Add	353.43	
For Class 55 Rating, Add	531.26	
For Class 56 Rating, Add	706.81	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,500.70	627.38
For Class 52 Rating, Deduct	-280.51	
For Class 54 Rating, Add	393.92	
For Class 55 Rating, Add	591.49	
For Class 56 Rating, Add	786.51	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,774.66	630.26
For Class 52 Rating, Deduct	-310.17	
For Class 54 Rating, Add	434.42	
For Class 55 Rating, Add	651.72	
For Class 56 Rating, Add	866.20	
40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,048.63	633.12
For Class 52 Rating, Deduct	-339.83	
For Class 54 Rating, Add	474.91	
For Class 55 Rating, Add	711.95	
For Class 56 Rating, Add	945.89	
40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,322.60	635.99
For Class 52 Rating, Deduct	-369.49	
For Class 54 Rating, Add	515.41	
For Class 55 Rating, Add	772.18	
For Class 56 Rating, Add	1,025.59	
40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,596.56	638.87
For Class 52 Rating, Deduct	-399.14	
For Class 54 Rating, Add	555.90	
For Class 55 Rating, Add	832.40	
For Class 56 Rating, Add	1,105.28	
40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,870.54	641.75
For Class 52 Rating, Deduct	-428.80	
For Class 54 Rating, Add	596.40	
For Class 55 Rating, Add	892.63	
For Class 56 Rating, Add	1,184.97	
40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,144.51	644.62
For Class 52 Rating, Deduct	-458.46	
For Class 54 Rating, Add	636.89	
For Class 55 Rating, Add	952.86	
For Class 56 Rating, Add	1,264.67	
40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,418.48	647.48
For Class 52 Rating, Deduct	-488.12	
For Class 54 Rating, Add	677.39	
For Class 55 Rating, Add	1,013.09	
For Class 56 Rating, Add	1,344.36	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1318	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,692.45	650.36
		<i>For Class 52 Rating, Deduct</i>		-517.78	
		<i>For Class 54 Rating, Add</i>		717.88	
		<i>For Class 55 Rating, Add</i>		1,073.32	
		<i>For Class 56 Rating, Add</i>		1,424.05	
40 05 19 00-1319	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,966.41	653.24
		<i>For Class 52 Rating, Deduct</i>		-547.43	
		<i>For Class 54 Rating, Add</i>		758.38	
		<i>For Class 55 Rating, Add</i>		1,133.55	
		<i>For Class 56 Rating, Add</i>		1,503.75	
40 05 19 00-1320	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,240.38	656.10
		<i>For Class 52 Rating, Deduct</i>		-577.09	
		<i>For Class 54 Rating, Add</i>		798.87	
		<i>For Class 55 Rating, Add</i>		1,193.78	
		<i>For Class 56 Rating, Add</i>		1,583.44	
40 05 19 00-1321	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,514.34	658.97
		<i>For Class 52 Rating, Deduct</i>		-606.75	
		<i>For Class 54 Rating, Add</i>		839.36	
		<i>For Class 55 Rating, Add</i>		1,254.01	
		<i>For Class 56 Rating, Add</i>		1,663.13	
40 05 19 00-1322	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,788.31	661.85
		<i>For Class 52 Rating, Deduct</i>		-636.41	
		<i>For Class 54 Rating, Add</i>		879.86	
		<i>For Class 55 Rating, Add</i>		1,314.24	
		<i>For Class 56 Rating, Add</i>		1,742.83	
40 05 19 00-1323	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,062.29	664.73
		<i>For Class 52 Rating, Deduct</i>		-666.06	
		<i>For Class 54 Rating, Add</i>		920.36	
		<i>For Class 55 Rating, Add</i>		1,374.47	
		<i>For Class 56 Rating, Add</i>		1,822.52	
40 05 19 00-1324	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,336.26	667.59
		<i>For Class 52 Rating, Deduct</i>		-695.72	
		<i>For Class 54 Rating, Add</i>		960.85	
		<i>For Class 55 Rating, Add</i>		1,434.69	
		<i>For Class 56 Rating, Add</i>		1,902.21	
40 05 19 00-1325	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,610.23	670.47
		<i>For Class 52 Rating, Deduct</i>		-725.38	
		<i>For Class 54 Rating, Add</i>		1,001.34	
		<i>For Class 55 Rating, Add</i>		1,494.92	
		<i>For Class 56 Rating, Add</i>		1,981.91	
40 05 19 00-1326	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,884.19	673.34
		<i>For Class 52 Rating, Deduct</i>		-755.04	
		<i>For Class 54 Rating, Add</i>		1,041.84	
		<i>For Class 55 Rating, Add</i>		1,555.15	
		<i>For Class 56 Rating, Add</i>		2,061.60	
40 05 19 00-1327	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,158.16	676.21
		<i>For Class 52 Rating, Deduct</i>		-784.69	
		<i>For Class 54 Rating, Add</i>		1,082.33	
		<i>For Class 55 Rating, Add</i>		1,615.38	
		<i>For Class 56 Rating, Add</i>		2,141.29	
40 05 19 00-1328	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,432.13	679.08
		<i>For Class 52 Rating, Deduct</i>		-814.35	
		<i>For Class 54 Rating, Add</i>		1,122.83	
		<i>For Class 55 Rating, Add</i>		1,675.61	
		<i>For Class 56 Rating, Add</i>		2,220.99	
40 05 19 00-1329	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,706.09	681.96
		<i>For Class 52 Rating, Deduct</i>		-844.01	
		<i>For Class 54 Rating, Add</i>		1,163.32	
		<i>For Class 55 Rating, Add</i>		1,735.84	
		<i>For Class 56 Rating, Add</i>		2,300.68	
40 05 19 00-1330	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,980.06	684.84
		<i>For Class 52 Rating, Deduct</i>		-873.67	
		<i>For Class 54 Rating, Add</i>		1,203.82	
		<i>For Class 55 Rating, Add</i>		1,796.07	
		<i>For Class 56 Rating, Add</i>		2,380.37	
40 05 19 00-1331	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,254.03	687.70
		<i>For Class 52 Rating, Deduct</i>		-903.33	
		<i>For Class 54 Rating, Add</i>		1,244.31	
		<i>For Class 55 Rating, Add</i>		1,856.29	
		<i>For Class 56 Rating, Add</i>		2,460.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,528.00	690.57
<i>For Class 52 Rating, Deduct</i>	-932.98	
<i>For Class 54 Rating, Add</i>	1,284.81	
<i>For Class 55 Rating, Add</i>	1,916.52	
<i>For Class 56 Rating, Add</i>	2,539.76	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,801.98	693.45
<i>For Class 52 Rating, Deduct</i>	-962.64	
<i>For Class 54 Rating, Add</i>	1,325.30	
<i>For Class 55 Rating, Add</i>	1,976.75	
<i>For Class 56 Rating, Add</i>	2,619.46	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,075.94	696.33
<i>For Class 52 Rating, Deduct</i>	-992.30	
<i>For Class 54 Rating, Add</i>	1,365.80	
<i>For Class 55 Rating, Add</i>	2,036.98	
<i>For Class 56 Rating, Add</i>	2,699.15	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,349.91	699.19
<i>For Class 52 Rating, Deduct</i>	-1,021.96	
<i>For Class 54 Rating, Add</i>	1,406.29	
<i>For Class 55 Rating, Add</i>	2,097.21	
<i>For Class 56 Rating, Add</i>	2,778.84	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,623.87	702.07
<i>For Class 52 Rating, Deduct</i>	-1,051.61	
<i>For Class 54 Rating, Add</i>	1,446.78	
<i>For Class 55 Rating, Add</i>	2,157.44	
<i>For Class 56 Rating, Add</i>	2,858.53	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,897.84	704.94
<i>For Class 52 Rating, Deduct</i>	-1,081.27	
<i>For Class 54 Rating, Add</i>	1,487.28	
<i>For Class 55 Rating, Add</i>	2,217.67	
<i>For Class 56 Rating, Add</i>	2,938.23	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,171.81	707.81
<i>For Class 52 Rating, Deduct</i>	-1,110.93	
<i>For Class 54 Rating, Add</i>	1,527.77	
<i>For Class 55 Rating, Add</i>	2,277.90	
<i>For Class 56 Rating, Add</i>	3,017.92	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,445.78	710.69
<i>For Class 52 Rating, Deduct</i>	-1,140.59	
<i>For Class 54 Rating, Add</i>	1,568.27	
<i>For Class 55 Rating, Add</i>	2,338.13	
<i>For Class 56 Rating, Add</i>	3,097.61	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,719.75	713.56
<i>For Class 52 Rating, Deduct</i>	-1,170.25	
<i>For Class 54 Rating, Add</i>	1,608.76	
<i>For Class 55 Rating, Add</i>	2,398.36	
<i>For Class 56 Rating, Add</i>	3,177.31	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,993.72	716.43
<i>For Class 52 Rating, Deduct</i>	-1,199.90	
<i>For Class 54 Rating, Add</i>	1,649.26	
<i>For Class 55 Rating, Add</i>	2,458.58	
<i>For Class 56 Rating, Add</i>	3,257.00	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,267.69	719.30
<i>For Class 52 Rating, Deduct</i>	-1,229.56	
<i>For Class 54 Rating, Add</i>	1,689.75	
<i>For Class 55 Rating, Add</i>	2,518.81	
<i>For Class 56 Rating, Add</i>	3,336.69	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,541.66	722.18
<i>For Class 52 Rating, Deduct</i>	-1,259.22	
<i>For Class 54 Rating, Add</i>	1,730.25	
<i>For Class 55 Rating, Add</i>	2,579.04	
<i>For Class 56 Rating, Add</i>	3,416.39	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,815.62	725.06
<i>For Class 52 Rating, Deduct</i>	-1,288.88	
<i>For Class 54 Rating, Add</i>	1,770.74	
<i>For Class 55 Rating, Add</i>	2,639.27	
<i>For Class 56 Rating, Add</i>	3,496.08	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,089.59	727.91
<i>For Class 52 Rating, Deduct</i>	-1,318.53	
<i>For Class 54 Rating, Add</i>	1,811.24	
<i>For Class 55 Rating, Add</i>	2,699.50	
<i>For Class 56 Rating, Add</i>	3,575.78	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

40 05 19 00-1346	20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,443.19	709.54
	For Class 52 Rating, Deduct	-260.49	
	For Class 54 Rating, Add	368.12	
	For Class 55 Rating, Add	553.89	
	For Class 56 Rating, Add	737.30	
40 05 19 00-1348	EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,757.60	712.42
	For Class 52 Rating, Deduct	-294.60	
	For Class 54 Rating, Add	414.68	
	For Class 55 Rating, Add	623.14	
	For Class 56 Rating, Add	828.92	
40 05 19 00-1349	EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,072.00	715.28
	For Class 52 Rating, Deduct	-328.71	
	For Class 54 Rating, Add	461.24	
	For Class 55 Rating, Add	692.39	
	For Class 56 Rating, Add	920.55	
40 05 19 00-1350	EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,386.41	718.15
	For Class 52 Rating, Deduct	-362.81	
	For Class 54 Rating, Add	507.80	
	For Class 55 Rating, Add	761.64	
	For Class 56 Rating, Add	1,012.17	
40 05 19 00-1351	EA 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,700.82	721.03
	For Class 52 Rating, Deduct	-396.92	
	For Class 54 Rating, Add	554.36	
	For Class 55 Rating, Add	830.88	
	For Class 56 Rating, Add	1,103.79	
40 05 19 00-1352	EA 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,015.24	723.90
	For Class 52 Rating, Deduct	-431.03	
	For Class 54 Rating, Add	600.92	
	For Class 55 Rating, Add	900.13	
	For Class 56 Rating, Add	1,195.42	
40 05 19 00-1353	EA 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,329.65	726.77
	For Class 52 Rating, Deduct	-465.13	
	For Class 54 Rating, Add	647.49	
	For Class 55 Rating, Add	969.38	
	For Class 56 Rating, Add	1,287.04	
40 05 19 00-1354	EA 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,644.06	729.64
	For Class 52 Rating, Deduct	-499.24	
	For Class 54 Rating, Add	694.05	
	For Class 55 Rating, Add	1,038.63	
	For Class 56 Rating, Add	1,378.67	
40 05 19 00-1355	EA 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,958.47	732.52
	For Class 52 Rating, Deduct	-533.34	
	For Class 54 Rating, Add	740.61	
	For Class 55 Rating, Add	1,107.87	
	For Class 56 Rating, Add	1,470.29	
40 05 19 00-1356	EA 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,272.88	735.39
	For Class 52 Rating, Deduct	-567.45	
	For Class 54 Rating, Add	787.17	
	For Class 55 Rating, Add	1,177.12	
	For Class 56 Rating, Add	1,561.91	
40 05 19 00-1357	EA 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,587.29	738.27
	For Class 52 Rating, Deduct	-601.56	
	For Class 54 Rating, Add	833.73	
	For Class 55 Rating, Add	1,246.37	
	For Class 56 Rating, Add	1,653.54	
40 05 19 00-1358	EA 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,901.70	741.13
	For Class 52 Rating, Deduct	-635.66	
	For Class 54 Rating, Add	880.29	
	For Class 55 Rating, Add	1,315.62	
	For Class 56 Rating, Add	1,745.16	
40 05 19 00-1359	EA 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,216.11	744.00
	For Class 52 Rating, Deduct	-669.77	
	For Class 54 Rating, Add	926.85	
	For Class 55 Rating, Add	1,384.86	
	For Class 56 Rating, Add	1,836.79	
40 05 19 00-1360	EA 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,530.53	746.88
	For Class 52 Rating, Deduct	-703.88	
	For Class 54 Rating, Add	973.41	
	For Class 55 Rating, Add	1,454.11	
	For Class 56 Rating, Add	1,928.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,844.93	749.76
<i>For Class 52 Rating, Deduct</i>	-737.98	
<i>For Class 54 Rating, Add</i>	1,019.97	
<i>For Class 55 Rating, Add</i>	1,523.36	
<i>For Class 56 Rating, Add</i>	2,020.03	
40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,159.34	752.64
<i>For Class 52 Rating, Deduct</i>	-772.09	
<i>For Class 54 Rating, Add</i>	1,066.53	
<i>For Class 55 Rating, Add</i>	1,592.61	
<i>For Class 56 Rating, Add</i>	2,111.66	
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,473.76	755.49
<i>For Class 52 Rating, Deduct</i>	-806.20	
<i>For Class 54 Rating, Add</i>	1,113.10	
<i>For Class 55 Rating, Add</i>	1,661.85	
<i>For Class 56 Rating, Add</i>	2,203.28	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,788.17	758.37
<i>For Class 52 Rating, Deduct</i>	-840.30	
<i>For Class 54 Rating, Add</i>	1,159.66	
<i>For Class 55 Rating, Add</i>	1,731.10	
<i>For Class 56 Rating, Add</i>	2,294.91	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,102.58	761.25
<i>For Class 52 Rating, Deduct</i>	-874.41	
<i>For Class 54 Rating, Add</i>	1,206.22	
<i>For Class 55 Rating, Add</i>	1,800.35	
<i>For Class 56 Rating, Add</i>	2,386.53	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,416.99	764.13
<i>For Class 52 Rating, Deduct</i>	-908.52	
<i>For Class 54 Rating, Add</i>	1,252.78	
<i>For Class 55 Rating, Add</i>	1,869.60	
<i>For Class 56 Rating, Add</i>	2,478.15	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,731.40	766.98
<i>For Class 52 Rating, Deduct</i>	-942.62	
<i>For Class 54 Rating, Add</i>	1,299.34	
<i>For Class 55 Rating, Add</i>	1,938.84	
<i>For Class 56 Rating, Add</i>	2,569.78	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,045.80	769.86
<i>For Class 52 Rating, Deduct</i>	-976.73	
<i>For Class 54 Rating, Add</i>	1,345.90	
<i>For Class 55 Rating, Add</i>	2,008.09	
<i>For Class 56 Rating, Add</i>	2,661.40	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,360.22	772.74
<i>For Class 52 Rating, Deduct</i>	-1,010.84	
<i>For Class 54 Rating, Add</i>	1,392.46	
<i>For Class 55 Rating, Add</i>	2,077.34	
<i>For Class 56 Rating, Add</i>	2,753.03	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,674.63	775.60
<i>For Class 52 Rating, Deduct</i>	-1,044.94	
<i>For Class 54 Rating, Add</i>	1,439.02	
<i>For Class 55 Rating, Add</i>	2,146.59	
<i>For Class 56 Rating, Add</i>	2,844.65	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,989.05	778.48
<i>For Class 52 Rating, Deduct</i>	-1,079.05	
<i>For Class 54 Rating, Add</i>	1,485.58	
<i>For Class 55 Rating, Add</i>	2,215.83	
<i>For Class 56 Rating, Add</i>	2,936.27	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,303.46	781.35
<i>For Class 52 Rating, Deduct</i>	-1,113.15	
<i>For Class 54 Rating, Add</i>	1,532.14	
<i>For Class 55 Rating, Add</i>	2,285.08	
<i>For Class 56 Rating, Add</i>	3,027.90	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,617.87	784.23
<i>For Class 52 Rating, Deduct</i>	-1,147.26	
<i>For Class 54 Rating, Add</i>	1,578.71	
<i>For Class 55 Rating, Add</i>	2,354.33	
<i>For Class 56 Rating, Add</i>	3,119.52	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,932.27	787.10
<i>For Class 52 Rating, Deduct</i>	-1,181.37	
<i>For Class 54 Rating, Add</i>	1,625.27	
<i>For Class 55 Rating, Add</i>	2,423.57	
<i>For Class 56 Rating, Add</i>	3,211.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1375	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,246.68	789.97
		<i>For Class 52 Rating, Deduct</i>		-1,215.47	
		<i>For Class 54 Rating, Add</i>		1,671.83	
		<i>For Class 55 Rating, Add</i>		2,492.82	
		<i>For Class 56 Rating, Add</i>		3,302.77	
40 05 19 00-1376	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,561.09	792.84
		<i>For Class 52 Rating, Deduct</i>		-1,249.58	
		<i>For Class 54 Rating, Add</i>		1,718.39	
		<i>For Class 55 Rating, Add</i>		2,562.07	
		<i>For Class 56 Rating, Add</i>		3,394.39	
40 05 19 00-1377	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,875.51	795.71
		<i>For Class 52 Rating, Deduct</i>		-1,283.69	
		<i>For Class 54 Rating, Add</i>		1,764.95	
		<i>For Class 55 Rating, Add</i>		2,631.32	
		<i>For Class 56 Rating, Add</i>		3,486.02	
40 05 19 00-1378	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,189.92	798.59
		<i>For Class 52 Rating, Deduct</i>		-1,317.79	
		<i>For Class 54 Rating, Add</i>		1,811.51	
		<i>For Class 55 Rating, Add</i>		2,700.57	
		<i>For Class 56 Rating, Add</i>		3,577.64	
40 05 19 00-1379	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,504.34	801.46
		<i>For Class 52 Rating, Deduct</i>		-1,351.90	
		<i>For Class 54 Rating, Add</i>		1,858.07	
		<i>For Class 55 Rating, Add</i>		2,769.81	
		<i>For Class 56 Rating, Add</i>		3,669.27	
40 05 19 00-1380	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,818.74	804.34
		<i>For Class 52 Rating, Deduct</i>		-1,386.01	
		<i>For Class 54 Rating, Add</i>		1,904.63	
		<i>For Class 55 Rating, Add</i>		2,839.06	
		<i>For Class 56 Rating, Add</i>		3,760.89	
40 05 19 00-1381	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,133.15	807.20
		<i>For Class 52 Rating, Deduct</i>		-1,420.11	
		<i>For Class 54 Rating, Add</i>		1,951.19	
		<i>For Class 55 Rating, Add</i>		2,908.31	
		<i>For Class 56 Rating, Add</i>		3,852.51	
40 05 19 00-1382	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,447.56	810.08
		<i>For Class 52 Rating, Deduct</i>		-1,454.22	
		<i>For Class 54 Rating, Add</i>		1,997.75	
		<i>For Class 55 Rating, Add</i>		2,977.56	
		<i>For Class 56 Rating, Add</i>		3,944.14	
40 05 19 00-1383	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,761.97	812.95
		<i>For Class 52 Rating, Deduct</i>		-1,488.33	
		<i>For Class 54 Rating, Add</i>		2,044.32	
		<i>For Class 55 Rating, Add</i>		3,046.80	
		<i>For Class 56 Rating, Add</i>		4,035.76	
40 05 19 00-1384	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,076.38	815.82
		<i>For Class 52 Rating, Deduct</i>		-1,522.43	
		<i>For Class 54 Rating, Add</i>		2,090.88	
		<i>For Class 55 Rating, Add</i>		3,116.05	
		<i>For Class 56 Rating, Add</i>		4,127.38	
40 05 19 00-1385		24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>			
40 05 19 00-1386	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,227.70	838.80
		<i>For Class 52 Rating, Deduct</i>		-325.25	
		<i>For Class 54 Rating, Add</i>		458.77	
		<i>For Class 55 Rating, Add</i>		689.87	
		<i>For Class 56 Rating, Add</i>		918.01	
40 05 19 00-1387	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,616.25	841.68
		<i>For Class 52 Rating, Deduct</i>		-367.51	
		<i>For Class 54 Rating, Add</i>		516.45	
		<i>For Class 55 Rating, Add</i>		775.65	
		<i>For Class 56 Rating, Add</i>		1,031.50	
40 05 19 00-1388	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,004.82	844.56
		<i>For Class 52 Rating, Deduct</i>		-409.77	
		<i>For Class 54 Rating, Add</i>		574.13	
		<i>For Class 55 Rating, Add</i>		861.43	
		<i>For Class 56 Rating, Add</i>		1,145.00	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,393.38	847.41
For Class 52 Rating, Deduct	-452.03	
For Class 54 Rating, Add	631.82	
For Class 55 Rating, Add	947.21	
For Class 56 Rating, Add	1,258.50	
40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,781.93	850.29
For Class 52 Rating, Deduct	-494.30	
For Class 54 Rating, Add	689.50	
For Class 55 Rating, Add	1,032.99	
For Class 56 Rating, Add	1,371.99	
40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,170.48	853.17
For Class 52 Rating, Deduct	-536.56	
For Class 54 Rating, Add	747.18	
For Class 55 Rating, Add	1,118.77	
For Class 56 Rating, Add	1,485.49	
40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,559.04	856.05
For Class 52 Rating, Deduct	-578.82	
For Class 54 Rating, Add	804.87	
For Class 55 Rating, Add	1,204.56	
For Class 56 Rating, Add	1,598.99	
40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,947.59	858.90
For Class 52 Rating, Deduct	-621.08	
For Class 54 Rating, Add	862.55	
For Class 55 Rating, Add	1,290.34	
For Class 56 Rating, Add	1,712.48	
40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,336.14	861.78
For Class 52 Rating, Deduct	-663.35	
For Class 54 Rating, Add	920.23	
For Class 55 Rating, Add	1,376.12	
For Class 56 Rating, Add	1,825.98	
40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,724.69	864.66
For Class 52 Rating, Deduct	-705.61	
For Class 54 Rating, Add	977.91	
For Class 55 Rating, Add	1,461.90	
For Class 56 Rating, Add	1,939.47	
40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	8,113.26	867.53
For Class 52 Rating, Deduct	-747.87	
For Class 54 Rating, Add	1,035.60	
For Class 55 Rating, Add	1,547.68	
For Class 56 Rating, Add	2,052.97	
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	8,501.82	870.41
For Class 52 Rating, Deduct	-790.13	
For Class 54 Rating, Add	1,093.28	
For Class 55 Rating, Add	1,633.46	
For Class 56 Rating, Add	2,166.47	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	8,890.37	873.27
For Class 52 Rating, Deduct	-832.39	
For Class 54 Rating, Add	1,150.96	
For Class 55 Rating, Add	1,719.25	
For Class 56 Rating, Add	2,279.96	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	9,278.93	876.15
For Class 52 Rating, Deduct	-874.66	
For Class 54 Rating, Add	1,208.64	
For Class 55 Rating, Add	1,805.03	
For Class 56 Rating, Add	2,393.46	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	9,667.48	879.02
For Class 52 Rating, Deduct	-916.92	
For Class 54 Rating, Add	1,266.33	
For Class 55 Rating, Add	1,890.81	
For Class 56 Rating, Add	2,506.96	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	10,056.03	881.90
For Class 52 Rating, Deduct	-959.18	
For Class 54 Rating, Add	1,324.01	
For Class 55 Rating, Add	1,976.59	
For Class 56 Rating, Add	2,620.45	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	10,444.58	884.77
For Class 52 Rating, Deduct	-1,001.44	
For Class 54 Rating, Add	1,381.69	
For Class 55 Rating, Add	2,062.37	
For Class 56 Rating, Add	2,733.95	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,833.14	887.63
		<i>For Class 52 Rating, Deduct</i>		-1,043.71	
		<i>For Class 54 Rating, Add</i>		1,439.37	
		<i>For Class 55 Rating, Add</i>		2,148.16	
		<i>For Class 56 Rating, Add</i>		2,847.45	
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,221.70	890.51
		<i>For Class 52 Rating, Deduct</i>		-1,085.97	
		<i>For Class 54 Rating, Add</i>		1,497.06	
		<i>For Class 55 Rating, Add</i>		2,233.94	
		<i>For Class 56 Rating, Add</i>		2,960.94	
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,610.26	893.39
		<i>For Class 52 Rating, Deduct</i>		-1,128.23	
		<i>For Class 54 Rating, Add</i>		1,554.74	
		<i>For Class 55 Rating, Add</i>		2,319.72	
		<i>For Class 56 Rating, Add</i>		3,074.44	
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,998.81	896.26
		<i>For Class 52 Rating, Deduct</i>		-1,170.49	
		<i>For Class 54 Rating, Add</i>		1,612.42	
		<i>For Class 55 Rating, Add</i>		2,405.50	
		<i>For Class 56 Rating, Add</i>		3,187.93	
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,387.37	899.12
		<i>For Class 52 Rating, Deduct</i>		-1,212.76	
		<i>For Class 54 Rating, Add</i>		1,670.11	
		<i>For Class 55 Rating, Add</i>		2,491.28	
		<i>For Class 56 Rating, Add</i>		3,301.43	
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,775.92	902.00
		<i>For Class 52 Rating, Deduct</i>		-1,255.02	
		<i>For Class 54 Rating, Add</i>		1,727.79	
		<i>For Class 55 Rating, Add</i>		2,577.06	
		<i>For Class 56 Rating, Add</i>		3,414.93	
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,164.47	904.88
		<i>For Class 52 Rating, Deduct</i>		-1,297.28	
		<i>For Class 54 Rating, Add</i>		1,785.47	
		<i>For Class 55 Rating, Add</i>		2,662.84	
		<i>For Class 56 Rating, Add</i>		3,528.42	
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,553.03	907.75
		<i>For Class 52 Rating, Deduct</i>		-1,339.54	
		<i>For Class 54 Rating, Add</i>		1,843.15	
		<i>For Class 55 Rating, Add</i>		2,748.63	
		<i>For Class 56 Rating, Add</i>		3,641.92	
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,941.58	910.62
		<i>For Class 52 Rating, Deduct</i>		-1,381.80	
		<i>For Class 54 Rating, Add</i>		1,900.84	
		<i>For Class 55 Rating, Add</i>		2,834.41	
		<i>For Class 56 Rating, Add</i>		3,755.42	
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,330.14	913.49
		<i>For Class 52 Rating, Deduct</i>		-1,424.07	
		<i>For Class 54 Rating, Add</i>		1,958.52	
		<i>For Class 55 Rating, Add</i>		2,920.19	
		<i>For Class 56 Rating, Add</i>		3,868.91	
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,718.69	916.37
		<i>For Class 52 Rating, Deduct</i>		-1,466.33	
		<i>For Class 54 Rating, Add</i>		2,016.20	
		<i>For Class 55 Rating, Add</i>		3,005.97	
		<i>For Class 56 Rating, Add</i>		3,982.41	
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,107.26	919.23
		<i>For Class 52 Rating, Deduct</i>		-1,508.59	
		<i>For Class 54 Rating, Add</i>		2,073.88	
		<i>For Class 55 Rating, Add</i>		3,091.75	
		<i>For Class 56 Rating, Add</i>		4,095.91	
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,569.80	970.94
		<i>For Class 52 Rating, Deduct</i>		-1,550.85	
		<i>For Class 54 Rating, Add</i>		2,132.45	
		<i>For Class 55 Rating, Add</i>		3,179.31	
		<i>For Class 56 Rating, Add</i>		4,212.07	
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,958.35	973.82
		<i>For Class 52 Rating, Deduct</i>		-1,593.12	
		<i>For Class 54 Rating, Add</i>		2,190.14	
		<i>For Class 55 Rating, Add</i>		3,265.09	
		<i>For Class 56 Rating, Add</i>		4,325.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,346.91	976.70
<i>For Class 52 Rating, Deduct</i>	-1,635.38	
<i>For Class 54 Rating, Add</i>	2,247.82	
<i>For Class 55 Rating, Add</i>	3,350.87	
<i>For Class 56 Rating, Add</i>	4,439.06	
40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,735.47	979.56
<i>For Class 52 Rating, Deduct</i>	-1,677.64	
<i>For Class 54 Rating, Add</i>	2,305.50	
<i>For Class 55 Rating, Add</i>	3,436.66	
<i>For Class 56 Rating, Add</i>	4,552.56	
40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,124.02	982.43
<i>For Class 52 Rating, Deduct</i>	-1,719.90	
<i>For Class 54 Rating, Add</i>	2,363.18	
<i>For Class 55 Rating, Add</i>	3,522.44	
<i>For Class 56 Rating, Add</i>	4,666.05	
40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,512.57	985.31
<i>For Class 52 Rating, Deduct</i>	-1,762.16	
<i>For Class 54 Rating, Add</i>	2,420.87	
<i>For Class 55 Rating, Add</i>	3,608.22	
<i>For Class 56 Rating, Add</i>	4,779.55	
40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,901.13	988.19
<i>For Class 52 Rating, Deduct</i>	-1,804.43	
<i>For Class 54 Rating, Add</i>	2,478.55	
<i>For Class 55 Rating, Add</i>	3,694.00	
<i>For Class 56 Rating, Add</i>	4,893.05	
40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,289.69	991.05
<i>For Class 52 Rating, Deduct</i>	-1,846.69	
<i>For Class 54 Rating, Add</i>	2,536.23	
<i>For Class 55 Rating, Add</i>	3,779.78	
<i>For Class 56 Rating, Add</i>	5,006.54	
40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,678.24	993.92
<i>For Class 52 Rating, Deduct</i>	-1,888.95	
<i>For Class 54 Rating, Add</i>	2,593.91	
<i>For Class 55 Rating, Add</i>	3,865.56	
<i>For Class 56 Rating, Add</i>	5,120.04	
40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,466.55	1,183.52
<i>For Class 52 Rating, Deduct</i>	-514.07	
<i>For Class 54 Rating, Add</i>	722.52	
<i>For Class 55 Rating, Add</i>	1,085.19	
<i>For Class 56 Rating, Add</i>	1,443.19	
40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,025.87	1,186.39
<i>For Class 52 Rating, Deduct</i>	-575.11	
<i>For Class 54 Rating, Add</i>	805.82	
<i>For Class 55 Rating, Add</i>	1,209.05	
<i>For Class 56 Rating, Add</i>	1,607.06	
40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,585.18	1,189.27
<i>For Class 52 Rating, Deduct</i>	-636.16	
<i>For Class 54 Rating, Add</i>	889.11	
<i>For Class 55 Rating, Add</i>	1,332.91	
<i>For Class 56 Rating, Add</i>	1,770.93	
40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,144.49	1,192.13
<i>For Class 52 Rating, Deduct</i>	-697.20	
<i>For Class 54 Rating, Add</i>	972.41	
<i>For Class 55 Rating, Add</i>	1,456.77	
<i>For Class 56 Rating, Add</i>	1,934.80	
40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,703.80	1,195.01
<i>For Class 52 Rating, Deduct</i>	-758.25	
<i>For Class 54 Rating, Add</i>	1,055.70	
<i>For Class 55 Rating, Add</i>	1,580.63	
<i>For Class 56 Rating, Add</i>	2,098.67	
40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,263.11	1,197.88
<i>For Class 52 Rating, Deduct</i>	-819.30	
<i>For Class 54 Rating, Add</i>	1,139.00	
<i>For Class 55 Rating, Add</i>	1,704.49	
<i>For Class 56 Rating, Add</i>	2,262.54	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,822.42	1,200.76
		<i>For Class 52 Rating, Deduct</i>		-880.34	
		<i>For Class 54 Rating, Add</i>		1,222.30	
		<i>For Class 55 Rating, Add</i>		1,828.35	
		<i>For Class 56 Rating, Add</i>		2,426.41	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,381.73	1,203.63
		<i>For Class 52 Rating, Deduct</i>		-941.39	
		<i>For Class 54 Rating, Add</i>		1,305.59	
		<i>For Class 55 Rating, Add</i>		1,952.22	
		<i>For Class 56 Rating, Add</i>		2,590.28	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,941.05	1,206.49
		<i>For Class 52 Rating, Deduct</i>		-1,002.43	
		<i>For Class 54 Rating, Add</i>		1,388.89	
		<i>For Class 55 Rating, Add</i>		2,076.08	
		<i>For Class 56 Rating, Add</i>		2,754.15	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,500.36	1,209.37
		<i>For Class 52 Rating, Deduct</i>		-1,063.48	
		<i>For Class 54 Rating, Add</i>		1,472.19	
		<i>For Class 55 Rating, Add</i>		2,199.94	
		<i>For Class 56 Rating, Add</i>		2,918.02	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,059.68	1,212.25
		<i>For Class 52 Rating, Deduct</i>		-1,124.52	
		<i>For Class 54 Rating, Add</i>		1,555.48	
		<i>For Class 55 Rating, Add</i>		2,323.80	
		<i>For Class 56 Rating, Add</i>		3,081.89	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,618.99	1,215.12
		<i>For Class 52 Rating, Deduct</i>		-1,185.57	
		<i>For Class 54 Rating, Add</i>		1,638.78	
		<i>For Class 55 Rating, Add</i>		2,447.66	
		<i>For Class 56 Rating, Add</i>		3,245.76	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,178.30	1,217.98
		<i>For Class 52 Rating, Deduct</i>		-1,246.61	
		<i>For Class 54 Rating, Add</i>		1,722.07	
		<i>For Class 55 Rating, Add</i>		2,571.52	
		<i>For Class 56 Rating, Add</i>		3,409.63	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,737.61	1,220.86
		<i>For Class 52 Rating, Deduct</i>		-1,307.66	
		<i>For Class 54 Rating, Add</i>		1,805.37	
		<i>For Class 55 Rating, Add</i>		2,695.38	
		<i>For Class 56 Rating, Add</i>		3,573.50	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,296.92	1,223.74
		<i>For Class 52 Rating, Deduct</i>		-1,368.71	
		<i>For Class 54 Rating, Add</i>		1,888.67	
		<i>For Class 55 Rating, Add</i>		2,819.24	
		<i>For Class 56 Rating, Add</i>		3,737.37	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,856.24	1,226.60
		<i>For Class 52 Rating, Deduct</i>		-1,429.75	
		<i>For Class 54 Rating, Add</i>		1,971.96	
		<i>For Class 55 Rating, Add</i>		2,943.10	
		<i>For Class 56 Rating, Add</i>		3,901.24	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,415.55	1,229.48
		<i>For Class 52 Rating, Deduct</i>		-1,490.80	
		<i>For Class 54 Rating, Add</i>		2,055.26	
		<i>For Class 55 Rating, Add</i>		3,066.96	
		<i>For Class 56 Rating, Add</i>		4,065.11	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,974.86	1,232.35
		<i>For Class 52 Rating, Deduct</i>		-1,551.84	
		<i>For Class 54 Rating, Add</i>		2,138.56	
		<i>For Class 55 Rating, Add</i>		3,190.82	
		<i>For Class 56 Rating, Add</i>		4,228.98	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,534.17	1,235.23
		<i>For Class 52 Rating, Deduct</i>		-1,612.89	
		<i>For Class 54 Rating, Add</i>		2,221.85	
		<i>For Class 55 Rating, Add</i>		3,314.68	
		<i>For Class 56 Rating, Add</i>		4,392.85	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,093.49	1,238.09
		<i>For Class 52 Rating, Deduct</i>		-1,673.93	
		<i>For Class 54 Rating, Add</i>		2,305.15	
		<i>For Class 55 Rating, Add</i>		3,438.54	
		<i>For Class 56 Rating, Add</i>		4,556.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,652.80	1,240.97
<i>For Class 52 Rating, Deduct</i>	-1,734.98	
<i>For Class 54 Rating, Add</i>	2,388.44	
<i>For Class 55 Rating, Add</i>	3,562.40	
<i>For Class 56 Rating, Add</i>	4,720.59	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,212.11	1,243.85
<i>For Class 52 Rating, Deduct</i>	-1,796.03	
<i>For Class 54 Rating, Add</i>	2,471.74	
<i>For Class 55 Rating, Add</i>	3,686.26	
<i>For Class 56 Rating, Add</i>	4,884.46	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,771.42	1,246.71
<i>For Class 52 Rating, Deduct</i>	-1,857.07	
<i>For Class 54 Rating, Add</i>	2,555.04	
<i>For Class 55 Rating, Add</i>	3,810.12	
<i>For Class 56 Rating, Add</i>	5,048.33	
40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,330.73	1,249.58
<i>For Class 52 Rating, Deduct</i>	-1,918.12	
<i>For Class 54 Rating, Add</i>	2,638.33	
<i>For Class 55 Rating, Add</i>	3,933.98	
<i>For Class 56 Rating, Add</i>	5,212.20	
40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,890.04	1,252.46
<i>For Class 52 Rating, Deduct</i>	-1,979.16	
<i>For Class 54 Rating, Add</i>	2,721.63	
<i>For Class 55 Rating, Add</i>	4,057.84	
<i>For Class 56 Rating, Add</i>	5,376.07	
40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,449.35	1,255.34
<i>For Class 52 Rating, Deduct</i>	-2,040.21	
<i>For Class 54 Rating, Add</i>	2,804.92	
<i>For Class 55 Rating, Add</i>	4,181.70	
<i>For Class 56 Rating, Add</i>	5,539.94	
40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,008.66	1,258.20
<i>For Class 52 Rating, Deduct</i>	-2,101.25	
<i>For Class 54 Rating, Add</i>	2,888.22	
<i>For Class 55 Rating, Add</i>	4,305.56	
<i>For Class 56 Rating, Add</i>	5,703.80	
40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,567.98	1,261.08
<i>For Class 52 Rating, Deduct</i>	-2,162.30	
<i>For Class 54 Rating, Add</i>	2,971.52	
<i>For Class 55 Rating, Add</i>	4,429.42	
<i>For Class 56 Rating, Add</i>	5,867.68	
40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,127.29	1,263.95
<i>For Class 52 Rating, Deduct</i>	-2,223.34	
<i>For Class 54 Rating, Add</i>	3,054.81	
<i>For Class 55 Rating, Add</i>	4,553.28	
<i>For Class 56 Rating, Add</i>	6,031.54	
40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,686.60	1,266.83
<i>For Class 52 Rating, Deduct</i>	-2,284.39	
<i>For Class 54 Rating, Add</i>	3,138.11	
<i>For Class 55 Rating, Add</i>	4,677.15	
<i>For Class 56 Rating, Add</i>	6,195.41	
40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,245.91	1,269.70
<i>For Class 52 Rating, Deduct</i>	-2,345.43	
<i>For Class 54 Rating, Add</i>	3,221.40	
<i>For Class 55 Rating, Add</i>	4,801.01	
<i>For Class 56 Rating, Add</i>	6,359.28	
40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,805.23	1,272.57
<i>For Class 52 Rating, Deduct</i>	-2,406.48	
<i>For Class 54 Rating, Add</i>	3,304.70	
<i>For Class 55 Rating, Add</i>	4,924.87	
<i>For Class 56 Rating, Add</i>	6,523.15	
40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,364.54	1,275.44
<i>For Class 52 Rating, Deduct</i>	-2,467.53	
<i>For Class 54 Rating, Add</i>	3,388.00	
<i>For Class 55 Rating, Add</i>	5,048.73	
<i>For Class 56 Rating, Add</i>	6,687.02	
40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,923.85	1,278.31
<i>For Class 52 Rating, Deduct</i>	-2,528.57	
<i>For Class 54 Rating, Add</i>	3,471.29	
<i>For Class 55 Rating, Add</i>	5,172.59	
<i>For Class 56 Rating, Add</i>	6,850.89	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1459	EA	30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		25,483.16	1,281.19
		<i>For Class 52 Rating, Deduct</i>		-2,589.62	
		<i>For Class 54 Rating, Add</i>		3,554.59	
		<i>For Class 55 Rating, Add</i>		5,296.45	
		<i>For Class 56 Rating, Add</i>		7,014.76	
40 05 19 00-1460	EA	30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,042.47	1,284.07
		<i>For Class 52 Rating, Deduct</i>		-2,650.66	
		<i>For Class 54 Rating, Add</i>		3,637.89	
		<i>For Class 55 Rating, Add</i>		5,420.31	
		<i>For Class 56 Rating, Add</i>		7,178.63	
40 05 19 00-1461	EA	30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,601.79	1,286.93
		<i>For Class 52 Rating, Deduct</i>		-2,711.71	
		<i>For Class 54 Rating, Add</i>		3,721.18	
		<i>For Class 55 Rating, Add</i>		5,544.17	
		<i>For Class 56 Rating, Add</i>		7,342.50	
40 05 19 00-1462	EA	30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		27,161.10	1,289.80
		<i>For Class 52 Rating, Deduct</i>		-2,772.75	
		<i>For Class 54 Rating, Add</i>		3,804.48	
		<i>For Class 55 Rating, Add</i>		5,668.03	
		<i>For Class 56 Rating, Add</i>		7,506.37	
40 05 19 00-1463		36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>			
40 05 19 00-1464	EA	36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,927.00	1,499.50
		<i>For Class 52 Rating, Deduct</i>		-732.05	
		<i>For Class 54 Rating, Add</i>		1,025.52	
		<i>For Class 55 Rating, Add</i>		1,538.60	
		<i>For Class 56 Rating, Add</i>		2,045.02	
40 05 19 00-1465	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,686.28	1,502.38
		<i>For Class 52 Rating, Deduct</i>		-815.09	
		<i>For Class 54 Rating, Add</i>		1,138.81	
		<i>For Class 55 Rating, Add</i>		1,707.05	
		<i>For Class 56 Rating, Add</i>		2,267.88	
40 05 19 00-1466	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,445.56	1,505.25
		<i>For Class 52 Rating, Deduct</i>		-898.14	
		<i>For Class 54 Rating, Add</i>		1,252.10	
		<i>For Class 55 Rating, Add</i>		1,875.50	
		<i>For Class 56 Rating, Add</i>		2,490.74	
40 05 19 00-1467	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,204.84	1,508.13
		<i>For Class 52 Rating, Deduct</i>		-981.18	
		<i>For Class 54 Rating, Add</i>		1,365.39	
		<i>For Class 55 Rating, Add</i>		2,043.96	
		<i>For Class 56 Rating, Add</i>		2,713.60	
40 05 19 00-1468	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,964.11	1,511.00
		<i>For Class 52 Rating, Deduct</i>		-1,064.22	
		<i>For Class 54 Rating, Add</i>		1,478.68	
		<i>For Class 55 Rating, Add</i>		2,212.41	
		<i>For Class 56 Rating, Add</i>		2,936.46	
40 05 19 00-1469	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,723.39	1,513.86
		<i>For Class 52 Rating, Deduct</i>		-1,147.26	
		<i>For Class 54 Rating, Add</i>		1,591.97	
		<i>For Class 55 Rating, Add</i>		2,380.86	
		<i>For Class 56 Rating, Add</i>		3,159.32	
40 05 19 00-1470	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,482.66	1,516.74
		<i>For Class 52 Rating, Deduct</i>		-1,230.30	
		<i>For Class 54 Rating, Add</i>		1,705.26	
		<i>For Class 55 Rating, Add</i>		2,549.31	
		<i>For Class 56 Rating, Add</i>		3,382.18	
40 05 19 00-1471	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,241.95	1,519.62
		<i>For Class 52 Rating, Deduct</i>		-1,313.35	
		<i>For Class 54 Rating, Add</i>		1,818.55	
		<i>For Class 55 Rating, Add</i>		2,717.77	
		<i>For Class 56 Rating, Add</i>		3,605.04	
40 05 19 00-1472	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,001.22	1,522.50
		<i>For Class 52 Rating, Deduct</i>		-1,396.39	
		<i>For Class 54 Rating, Add</i>		1,931.84	
		<i>For Class 55 Rating, Add</i>		2,886.22	
		<i>For Class 56 Rating, Add</i>		3,827.90	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,760.49	1,525.35
<i>For Class 52 Rating, Deduct</i>	-1,479.43	
<i>For Class 54 Rating, Add</i>	2,045.13	
<i>For Class 55 Rating, Add</i>	3,054.67	
<i>For Class 56 Rating, Add</i>	4,050.76	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,519.77	1,528.23
<i>For Class 52 Rating, Deduct</i>	-1,562.47	
<i>For Class 54 Rating, Add</i>	2,158.43	
<i>For Class 55 Rating, Add</i>	3,223.12	
<i>For Class 56 Rating, Add</i>	4,273.62	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,279.05	1,531.11
<i>For Class 52 Rating, Deduct</i>	-1,645.51	
<i>For Class 54 Rating, Add</i>	2,271.72	
<i>For Class 55 Rating, Add</i>	3,391.58	
<i>For Class 56 Rating, Add</i>	4,496.48	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,038.33	1,533.97
<i>For Class 52 Rating, Deduct</i>	-1,728.55	
<i>For Class 54 Rating, Add</i>	2,385.01	
<i>For Class 55 Rating, Add</i>	3,560.03	
<i>For Class 56 Rating, Add</i>	4,719.34	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,797.60	1,536.85
<i>For Class 52 Rating, Deduct</i>	-1,811.59	
<i>For Class 54 Rating, Add</i>	2,498.30	
<i>For Class 55 Rating, Add</i>	3,728.48	
<i>For Class 56 Rating, Add</i>	4,942.19	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,556.88	1,539.72
<i>For Class 52 Rating, Deduct</i>	-1,894.64	
<i>For Class 54 Rating, Add</i>	2,611.59	
<i>For Class 55 Rating, Add</i>	3,896.94	
<i>For Class 56 Rating, Add</i>	5,165.06	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,316.16	1,542.60
<i>For Class 52 Rating, Deduct</i>	-1,977.68	
<i>For Class 54 Rating, Add</i>	2,724.88	
<i>For Class 55 Rating, Add</i>	4,065.39	
<i>For Class 56 Rating, Add</i>	5,387.91	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,075.44	1,545.46
<i>For Class 52 Rating, Deduct</i>	-2,060.72	
<i>For Class 54 Rating, Add</i>	2,838.17	
<i>For Class 55 Rating, Add</i>	4,233.84	
<i>For Class 56 Rating, Add</i>	5,610.78	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,834.71	1,548.34
<i>For Class 52 Rating, Deduct</i>	-2,143.76	
<i>For Class 54 Rating, Add</i>	2,951.46	
<i>For Class 55 Rating, Add</i>	4,402.29	
<i>For Class 56 Rating, Add</i>	5,833.63	
40 05 19 00-1482 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,593.99	1,551.22
<i>For Class 52 Rating, Deduct</i>	-2,226.80	
<i>For Class 54 Rating, Add</i>	3,064.75	
<i>For Class 55 Rating, Add</i>	4,570.75	
<i>For Class 56 Rating, Add</i>	6,056.49	
40 05 19 00-1483 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,353.27	1,554.09
<i>For Class 52 Rating, Deduct</i>	-2,309.84	
<i>For Class 54 Rating, Add</i>	3,178.04	
<i>For Class 55 Rating, Add</i>	4,739.20	
<i>For Class 56 Rating, Add</i>	6,279.35	
40 05 19 00-1484 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,112.55	1,556.96
<i>For Class 52 Rating, Deduct</i>	-2,392.89	
<i>For Class 54 Rating, Add</i>	3,291.34	
<i>For Class 55 Rating, Add</i>	4,907.65	
<i>For Class 56 Rating, Add</i>	6,502.21	
40 05 19 00-1485 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,871.82	1,559.83
<i>For Class 52 Rating, Deduct</i>	-2,475.93	
<i>For Class 54 Rating, Add</i>	3,404.63	
<i>For Class 55 Rating, Add</i>	5,076.10	
<i>For Class 56 Rating, Add</i>	6,725.07	
40 05 19 00-1486 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,631.10	1,562.71
<i>For Class 52 Rating, Deduct</i>	-2,558.97	
<i>For Class 54 Rating, Add</i>	3,517.92	
<i>For Class 55 Rating, Add</i>	5,244.56	
<i>For Class 56 Rating, Add</i>	6,947.93	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,390.38	1,565.57
			<i>For Class 52 Rating, Deduct</i>	-2,642.01	
			<i>For Class 54 Rating, Add</i>	3,631.21	
			<i>For Class 55 Rating, Add</i>	5,413.01	
			<i>For Class 56 Rating, Add</i>	7,170.79	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,149.66	1,568.45
			<i>For Class 52 Rating, Deduct</i>	-2,725.05	
			<i>For Class 54 Rating, Add</i>	3,744.50	
			<i>For Class 55 Rating, Add</i>	5,581.46	
			<i>For Class 56 Rating, Add</i>	7,393.65	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,908.93	1,571.32
			<i>For Class 52 Rating, Deduct</i>	-2,808.10	
			<i>For Class 54 Rating, Add</i>	3,857.79	
			<i>For Class 55 Rating, Add</i>	5,749.91	
			<i>For Class 56 Rating, Add</i>	7,616.51	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,668.21	1,574.20
			<i>For Class 52 Rating, Deduct</i>	-2,891.14	
			<i>For Class 54 Rating, Add</i>	3,971.08	
			<i>For Class 55 Rating, Add</i>	5,918.37	
			<i>For Class 56 Rating, Add</i>	7,839.37	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,427.48	1,577.07
			<i>For Class 52 Rating, Deduct</i>	-2,974.18	
			<i>For Class 54 Rating, Add</i>	4,084.37	
			<i>For Class 55 Rating, Add</i>	6,086.82	
			<i>For Class 56 Rating, Add</i>	8,062.23	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,186.77	1,579.94
			<i>For Class 52 Rating, Deduct</i>	-3,057.22	
			<i>For Class 54 Rating, Add</i>	4,197.66	
			<i>For Class 55 Rating, Add</i>	6,255.27	
			<i>For Class 56 Rating, Add</i>	8,285.09	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,946.04	1,582.81
			<i>For Class 52 Rating, Deduct</i>	-3,140.26	
			<i>For Class 54 Rating, Add</i>	4,310.95	
			<i>For Class 55 Rating, Add</i>	6,423.73	
			<i>For Class 56 Rating, Add</i>	8,507.95	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,705.32	1,585.68
			<i>For Class 52 Rating, Deduct</i>	-3,223.30	
			<i>For Class 54 Rating, Add</i>	4,424.25	
			<i>For Class 55 Rating, Add</i>	6,592.18	
			<i>For Class 56 Rating, Add</i>	8,730.81	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,464.60	1,588.56
			<i>For Class 52 Rating, Deduct</i>	-3,306.35	
			<i>For Class 54 Rating, Add</i>	4,537.54	
			<i>For Class 55 Rating, Add</i>	6,760.63	
			<i>For Class 56 Rating, Add</i>	8,953.67	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,223.88	1,591.43
			<i>For Class 52 Rating, Deduct</i>	-3,389.39	
			<i>For Class 54 Rating, Add</i>	4,650.83	
			<i>For Class 55 Rating, Add</i>	6,929.08	
			<i>For Class 56 Rating, Add</i>	9,176.53	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,983.15	1,594.30
			<i>For Class 52 Rating, Deduct</i>	-3,472.43	
			<i>For Class 54 Rating, Add</i>	4,764.12	
			<i>For Class 55 Rating, Add</i>	7,097.54	
			<i>For Class 56 Rating, Add</i>	9,399.39	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,742.42	1,597.17
			<i>For Class 52 Rating, Deduct</i>	-3,555.47	
			<i>For Class 54 Rating, Add</i>	4,877.41	
			<i>For Class 55 Rating, Add</i>	7,265.99	
			<i>For Class 56 Rating, Add</i>	9,622.24	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,501.70	1,600.05
			<i>For Class 52 Rating, Deduct</i>	-3,638.51	
			<i>For Class 54 Rating, Add</i>	4,990.70	
			<i>For Class 55 Rating, Add</i>	7,434.44	
			<i>For Class 56 Rating, Add</i>	9,845.11	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,260.98	1,602.93
			<i>For Class 52 Rating, Deduct</i>	-3,721.55	
			<i>For Class 54 Rating, Add</i>	5,103.99	
			<i>For Class 55 Rating, Add</i>	7,602.89	
			<i>For Class 56 Rating, Add</i>	10,067.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,020.26	1,605.78
For Class 52 Rating, Deduct	-3,804.60	
For Class 54 Rating, Add	5,217.28	
For Class 55 Rating, Add	7,771.35	
For Class 56 Rating, Add	10,290.82	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,785.95	1,890.18
For Class 52 Rating, Deduct	-981.42	
For Class 54 Rating, Add	1,372.67	
For Class 55 Rating, Add	2,058.35	
For Class 56 Rating, Add	2,735.10	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,918.20	1,893.05
For Class 52 Rating, Deduct	-1,105.49	
For Class 54 Rating, Add	1,541.91	
For Class 55 Rating, Add	2,309.97	
For Class 56 Rating, Add	3,067.99	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,036.97	1,895.93
For Class 52 Rating, Deduct	-1,228.08	
For Class 54 Rating, Add	1,709.12	
For Class 55 Rating, Add	2,558.59	
For Class 56 Rating, Add	3,396.90	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,166.97	1,898.80
For Class 52 Rating, Deduct	-1,351.90	
For Class 54 Rating, Add	1,878.02	
For Class 55 Rating, Add	2,809.72	
For Class 56 Rating, Add	3,729.12	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,285.74	1,901.68
For Class 52 Rating, Deduct	-1,474.49	
For Class 54 Rating, Add	2,045.24	
For Class 55 Rating, Add	3,058.34	
For Class 56 Rating, Add	4,058.03	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,417.98	1,904.54
For Class 52 Rating, Deduct	-1,598.55	
For Class 54 Rating, Add	2,214.47	
For Class 55 Rating, Add	3,309.96	
For Class 56 Rating, Add	4,390.91	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,534.50	1,907.42
For Class 52 Rating, Deduct	-1,720.89	
For Class 54 Rating, Add	2,381.35	
For Class 55 Rating, Add	3,558.08	
For Class 56 Rating, Add	4,719.16	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,666.74	1,910.30
For Class 52 Rating, Deduct	-1,844.96	
For Class 54 Rating, Add	2,550.59	
For Class 55 Rating, Add	3,809.70	
For Class 56 Rating, Add	5,052.04	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,785.50	1,913.17
For Class 52 Rating, Deduct	-1,967.54	
For Class 54 Rating, Add	2,717.80	
For Class 55 Rating, Add	4,058.32	
For Class 56 Rating, Add	5,380.95	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,915.50	1,916.03
For Class 52 Rating, Deduct	-2,091.37	
For Class 54 Rating, Add	2,886.70	
For Class 55 Rating, Add	4,309.44	
For Class 56 Rating, Add	5,713.17	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,034.26	1,918.91
For Class 52 Rating, Deduct	-2,213.95	
For Class 54 Rating, Add	3,053.91	
For Class 55 Rating, Add	4,558.06	
For Class 56 Rating, Add	6,042.08	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,164.27	1,921.79
For Class 52 Rating, Deduct	-2,337.77	
For Class 54 Rating, Add	3,222.81	
For Class 55 Rating, Add	4,809.19	
For Class 56 Rating, Add	6,374.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1515	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		25,283.04	1,924.64
		<i>For Class 52 Rating, Deduct</i>		-2,460.36	
		<i>For Class 54 Rating, Add</i>		3,390.03	
		<i>For Class 55 Rating, Add</i>		5,057.80	
		<i>For Class 56 Rating, Add</i>		6,703.21	
40 05 19 00-1516	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,404.05	1,927.52
		<i>For Class 52 Rating, Deduct</i>		-2,583.19	
		<i>For Class 54 Rating, Add</i>		3,557.58	
		<i>For Class 55 Rating, Add</i>		5,306.92	
		<i>For Class 56 Rating, Add</i>		7,032.79	
40 05 19 00-1517	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		27,531.80	1,930.40
		<i>For Class 52 Rating, Deduct</i>		-2,706.76	
		<i>For Class 54 Rating, Add</i>		3,726.14	
		<i>For Class 55 Rating, Add</i>		5,557.55	
		<i>For Class 56 Rating, Add</i>		7,364.34	
40 05 19 00-1518	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		28,650.57	1,933.28
		<i>For Class 52 Rating, Deduct</i>		-2,829.35	
		<i>For Class 54 Rating, Add</i>		3,893.36	
		<i>For Class 55 Rating, Add</i>		5,806.17	
		<i>For Class 56 Rating, Add</i>		7,693.26	
40 05 19 00-1519	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		29,782.81	1,936.15
		<i>For Class 52 Rating, Deduct</i>		-2,953.42	
		<i>For Class 54 Rating, Add</i>		4,062.59	
		<i>For Class 55 Rating, Add</i>		6,057.79	
		<i>For Class 56 Rating, Add</i>		8,026.14	
40 05 19 00-1520	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		30,901.57	1,939.01
		<i>For Class 52 Rating, Deduct</i>		-3,076.00	
		<i>For Class 54 Rating, Add</i>		4,229.81	
		<i>For Class 55 Rating, Add</i>		6,306.41	
		<i>For Class 56 Rating, Add</i>		8,355.05	
40 05 19 00-1521	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		32,031.57	1,941.89
		<i>For Class 52 Rating, Deduct</i>		-3,199.83	
		<i>For Class 54 Rating, Add</i>		4,398.71	
		<i>For Class 55 Rating, Add</i>		6,557.53	
		<i>For Class 56 Rating, Add</i>		8,687.27	
40 05 19 00-1522	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		33,150.34	1,944.76
		<i>For Class 52 Rating, Deduct</i>		-3,322.41	
		<i>For Class 54 Rating, Add</i>		4,565.92	
		<i>For Class 55 Rating, Add</i>		6,806.15	
		<i>For Class 56 Rating, Add</i>		9,016.18	
40 05 19 00-1523	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		34,282.60	1,947.64
		<i>For Class 52 Rating, Deduct</i>		-3,446.48	
		<i>For Class 54 Rating, Add</i>		4,735.16	
		<i>For Class 55 Rating, Add</i>		7,057.78	
		<i>For Class 56 Rating, Add</i>		9,349.07	
40 05 19 00-1524	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		35,401.36	1,950.51
		<i>For Class 52 Rating, Deduct</i>		-3,569.06	
		<i>For Class 54 Rating, Add</i>		4,902.37	
		<i>For Class 55 Rating, Add</i>		7,306.39	
		<i>For Class 56 Rating, Add</i>		9,677.97	
40 05 19 00-1525	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		36,531.36	1,953.38
		<i>For Class 52 Rating, Deduct</i>		-3,692.89	
		<i>For Class 54 Rating, Add</i>		5,071.27	
		<i>For Class 55 Rating, Add</i>		7,557.52	
		<i>For Class 56 Rating, Add</i>		10,010.20	
40 05 19 00-1526	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		37,650.12	1,956.25
		<i>For Class 52 Rating, Deduct</i>		-3,815.47	
		<i>For Class 54 Rating, Add</i>		5,238.48	
		<i>For Class 55 Rating, Add</i>		7,806.14	
		<i>For Class 56 Rating, Add</i>		10,339.10	
40 05 19 00-1527	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		38,782.36	1,959.13
		<i>For Class 52 Rating, Deduct</i>		-3,939.54	
		<i>For Class 54 Rating, Add</i>		5,407.72	
		<i>For Class 55 Rating, Add</i>		8,057.76	
		<i>For Class 56 Rating, Add</i>		10,671.99	
40 05 19 00-1528	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		39,901.12	1,962.00
		<i>For Class 52 Rating, Deduct</i>		-4,062.12	
		<i>For Class 54 Rating, Add</i>		5,574.93	
		<i>For Class 55 Rating, Add</i>		8,306.38	
		<i>For Class 56 Rating, Add</i>		11,000.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,028.87	1,964.86
For Class 52 Rating, Deduct	-4,185.70	
For Class 54 Rating, Add	5,743.49	
For Class 55 Rating, Add	8,557.00	
For Class 56 Rating, Add	11,332.46	
40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,149.88	1,967.74
For Class 52 Rating, Deduct	-4,308.53	
For Class 54 Rating, Add	5,911.05	
For Class 55 Rating, Add	8,806.12	
For Class 56 Rating, Add	11,662.03	
40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,043.99	1,970.62
For Class 52 Rating, Deduct	-4,406.40	
For Class 54 Rating, Add	6,044.56	
For Class 55 Rating, Add	9,004.64	
For Class 56 Rating, Add	11,924.66	
40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,398.66	1,973.49
For Class 52 Rating, Deduct	-4,554.94	
For Class 54 Rating, Add	6,247.16	
For Class 55 Rating, Add	9,305.86	
For Class 56 Rating, Add	12,323.16	
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,517.43	1,976.36
For Class 52 Rating, Deduct	-4,677.52	
For Class 54 Rating, Add	6,414.37	
For Class 55 Rating, Add	9,554.48	
For Class 56 Rating, Add	12,652.07	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,647.42	1,979.23
For Class 52 Rating, Deduct	-4,801.34	
For Class 54 Rating, Add	6,583.27	
For Class 55 Rating, Add	9,805.61	
For Class 56 Rating, Add	12,984.29	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,766.19	1,982.11
For Class 52 Rating, Deduct	-4,923.93	
For Class 54 Rating, Add	6,750.49	
For Class 55 Rating, Add	10,054.23	
For Class 56 Rating, Add	13,313.20	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,898.43	1,984.99
For Class 52 Rating, Deduct	-5,048.00	
For Class 54 Rating, Add	6,919.72	
For Class 55 Rating, Add	10,305.85	
For Class 56 Rating, Add	13,646.08	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,014.95	1,987.85
For Class 52 Rating, Deduct	-5,170.34	
For Class 54 Rating, Add	7,086.60	
For Class 55 Rating, Add	10,553.97	
For Class 56 Rating, Add	13,974.33	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,147.19	1,990.72
For Class 52 Rating, Deduct	-5,294.40	
For Class 54 Rating, Add	7,255.84	
For Class 55 Rating, Add	10,805.59	
For Class 56 Rating, Add	14,307.21	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,265.97	1,993.60
For Class 52 Rating, Deduct	-5,416.99	
For Class 54 Rating, Add	7,423.05	
For Class 55 Rating, Add	11,054.21	
For Class 56 Rating, Add	14,636.12	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,395.97	1,996.46
For Class 52 Rating, Deduct	-5,540.81	
For Class 54 Rating, Add	7,591.95	
For Class 55 Rating, Add	11,305.33	
For Class 56 Rating, Add	14,968.35	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,201.96	2,375.65
For Class 52 Rating, Deduct	-1,276.27	
For Class 54 Rating, Add	1,783.57	
For Class 55 Rating, Add	2,673.74	
For Class 56 Rating, Add	3,552.31	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,848.72	2,378.52
		<i>For Class 52 Rating, Deduct</i>	-1,456.94	
		<i>For Class 54 Rating, Add</i>	2,029.98	
		<i>For Class 55 Rating, Add</i>	3,040.10	
		<i>For Class 56 Rating, Add</i>	4,036.98	
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,493.23	2,381.40
		<i>For Class 52 Rating, Deduct</i>	-1,637.36	
		<i>For Class 54 Rating, Add</i>	2,276.06	
		<i>For Class 55 Rating, Add</i>	3,405.96	
		<i>For Class 56 Rating, Add</i>	4,520.98	
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,151.22	2,384.28
		<i>For Class 52 Rating, Deduct</i>	-1,819.26	
		<i>For Class 54 Rating, Add</i>	2,524.15	
		<i>For Class 55 Rating, Add</i>	3,774.83	
		<i>For Class 56 Rating, Add</i>	5,008.96	
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,798.00	2,387.14
		<i>For Class 52 Rating, Deduct</i>	-1,999.92	
		<i>For Class 54 Rating, Add</i>	2,770.57	
		<i>For Class 55 Rating, Add</i>	4,141.19	
		<i>For Class 56 Rating, Add</i>	5,493.64	
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,444.76	2,390.01
		<i>For Class 52 Rating, Deduct</i>	-2,180.59	
		<i>For Class 54 Rating, Add</i>	3,016.98	
		<i>For Class 55 Rating, Add</i>	4,507.55	
		<i>For Class 56 Rating, Add</i>	5,978.30	
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,100.50	2,392.89
		<i>For Class 52 Rating, Deduct</i>	-2,362.24	
		<i>For Class 54 Rating, Add</i>	3,264.74	
		<i>For Class 55 Rating, Add</i>	4,875.92	
		<i>For Class 56 Rating, Add</i>	6,465.62	
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,749.51	2,395.76
		<i>For Class 52 Rating, Deduct</i>	-2,543.15	
		<i>For Class 54 Rating, Add</i>	3,511.49	
		<i>For Class 55 Rating, Add</i>	5,242.78	
		<i>For Class 56 Rating, Add</i>	6,950.95	
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,394.04	2,398.64
		<i>For Class 52 Rating, Deduct</i>	-2,723.57	
		<i>For Class 54 Rating, Add</i>	3,757.57	
		<i>For Class 55 Rating, Add</i>	5,608.65	
		<i>For Class 56 Rating, Add</i>	7,434.96	
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,052.03	2,401.51
		<i>For Class 52 Rating, Deduct</i>	-2,905.47	
		<i>For Class 54 Rating, Add</i>	4,005.67	
		<i>For Class 55 Rating, Add</i>	5,977.51	
		<i>For Class 56 Rating, Add</i>	7,922.94	
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,698.79	2,404.38
		<i>For Class 52 Rating, Deduct</i>	-3,086.14	
		<i>For Class 54 Rating, Add</i>	4,252.08	
		<i>For Class 55 Rating, Add</i>	6,343.87	
		<i>For Class 56 Rating, Add</i>	8,407.61	
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,356.79	2,407.25
		<i>For Class 52 Rating, Deduct</i>	-3,268.04	
		<i>For Class 54 Rating, Add</i>	4,500.18	
		<i>For Class 55 Rating, Add</i>	6,712.74	
		<i>For Class 56 Rating, Add</i>	8,895.59	
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,001.31	2,410.13
		<i>For Class 52 Rating, Deduct</i>	-3,448.46	
		<i>For Class 54 Rating, Add</i>	4,746.26	
		<i>For Class 55 Rating, Add</i>	7,078.60	
		<i>For Class 56 Rating, Add</i>	9,379.59	
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,648.07	2,413.00
		<i>For Class 52 Rating, Deduct</i>	-3,629.12	
		<i>For Class 54 Rating, Add</i>	4,992.67	
		<i>For Class 55 Rating, Add</i>	7,444.96	
		<i>For Class 56 Rating, Add</i>	9,864.26	
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,306.07	2,415.88
		<i>For Class 52 Rating, Deduct</i>	-3,811.02	
		<i>For Class 54 Rating, Add</i>	5,240.77	
		<i>For Class 55 Rating, Add</i>	7,813.83	
		<i>For Class 56 Rating, Add</i>	10,352.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,952.84	2,418.74
<i>For Class 52 Rating, Deduct</i>	-3,991.69	
<i>For Class 54 Rating, Add</i>	5,487.19	
<i>For Class 55 Rating, Add</i>	8,180.19	
<i>For Class 56 Rating, Add</i>	10,836.91	
40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,597.35	2,421.62
<i>For Class 52 Rating, Deduct</i>	-4,172.11	
<i>For Class 54 Rating, Add</i>	5,733.26	
<i>For Class 55 Rating, Add</i>	8,546.05	
<i>For Class 56 Rating, Add</i>	11,320.92	
40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,255.35	2,424.49
<i>For Class 52 Rating, Deduct</i>	-4,354.01	
<i>For Class 54 Rating, Add</i>	5,981.36	
<i>For Class 55 Rating, Add</i>	8,914.92	
<i>For Class 56 Rating, Add</i>	11,808.90	
40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,902.11	2,427.36
<i>For Class 52 Rating, Deduct</i>	-4,534.67	
<i>For Class 54 Rating, Add</i>	6,227.78	
<i>For Class 55 Rating, Add</i>	9,281.28	
<i>For Class 56 Rating, Add</i>	12,293.57	
40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,546.62	2,430.23
<i>For Class 52 Rating, Deduct</i>	-4,715.09	
<i>For Class 54 Rating, Add</i>	6,473.85	
<i>For Class 55 Rating, Add</i>	9,647.14	
<i>For Class 56 Rating, Add</i>	12,777.57	
40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,204.62	2,433.11
<i>For Class 52 Rating, Deduct</i>	-4,896.99	
<i>For Class 54 Rating, Add</i>	6,721.95	
<i>For Class 55 Rating, Add</i>	10,016.01	
<i>For Class 56 Rating, Add</i>	13,265.55	
40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,853.63	2,435.98
<i>For Class 52 Rating, Deduct</i>	-5,077.90	
<i>For Class 54 Rating, Add</i>	6,968.70	
<i>For Class 55 Rating, Add</i>	10,382.87	
<i>For Class 56 Rating, Add</i>	13,750.88	
40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,498.15	2,438.85
<i>For Class 52 Rating, Deduct</i>	-5,258.32	
<i>For Class 54 Rating, Add</i>	7,214.78	
<i>For Class 55 Rating, Add</i>	10,748.74	
<i>For Class 56 Rating, Add</i>	14,234.89	
40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,156.15	2,441.73
<i>For Class 52 Rating, Deduct</i>	-5,440.22	
<i>For Class 54 Rating, Add</i>	7,462.88	
<i>For Class 55 Rating, Add</i>	11,117.60	
<i>For Class 56 Rating, Add</i>	14,722.87	
40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,802.91	2,444.60
<i>For Class 52 Rating, Deduct</i>	-5,620.89	
<i>For Class 54 Rating, Add</i>	7,709.29	
<i>For Class 55 Rating, Add</i>	11,483.96	
<i>For Class 56 Rating, Add</i>	15,207.54	
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,447.43	2,447.46
<i>For Class 52 Rating, Deduct</i>	-5,801.31	
<i>For Class 54 Rating, Add</i>	7,955.37	
<i>For Class 55 Rating, Add</i>	11,849.83	
<i>For Class 56 Rating, Add</i>	15,691.54	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,105.42	2,450.34
<i>For Class 52 Rating, Deduct</i>	-5,983.21	
<i>For Class 54 Rating, Add</i>	8,203.47	
<i>For Class 55 Rating, Add</i>	12,218.69	
<i>For Class 56 Rating, Add</i>	16,179.53	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,752.18	2,453.22
<i>For Class 52 Rating, Deduct</i>	-6,163.87	
<i>For Class 54 Rating, Add</i>	8,449.88	
<i>For Class 55 Rating, Add</i>	12,585.06	
<i>For Class 56 Rating, Add</i>	16,664.19	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,196.73	2,456.10
<i>For Class 52 Rating, Deduct</i>	-6,322.29	
<i>For Class 54 Rating, Add</i>	8,665.96	
<i>For Class 55 Rating, Add</i>	12,906.32	
<i>For Class 56 Rating, Add</i>	17,089.21	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxpE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,056.95	2,458.95
			<i>For Class 52 Rating, Deduct</i>	-6,526.44	
			<i>For Class 54 Rating, Add</i>	8,944.40	
			<i>For Class 55 Rating, Add</i>	13,320.29	
			<i>For Class 56 Rating, Add</i>	17,636.84	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxpE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,701.46	2,461.83
			<i>For Class 52 Rating, Deduct</i>	-6,706.86	
			<i>For Class 54 Rating, Add</i>	9,190.47	
			<i>For Class 55 Rating, Add</i>	13,686.15	
			<i>For Class 56 Rating, Add</i>	18,120.85	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxpE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,361.71	2,464.71
			<i>For Class 52 Rating, Deduct</i>	-6,889.00	
			<i>For Class 54 Rating, Add</i>	9,438.91	
			<i>For Class 55 Rating, Add</i>	14,055.51	
			<i>For Class 56 Rating, Add</i>	18,609.49	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxpE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,006.23	2,467.58
			<i>For Class 52 Rating, Deduct</i>	-7,069.42	
			<i>For Class 54 Rating, Add</i>	9,684.99	
			<i>For Class 55 Rating, Add</i>	14,421.38	
			<i>For Class 56 Rating, Add</i>	19,093.50	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxpE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,650.74	2,470.44
			<i>For Class 52 Rating, Deduct</i>	-7,249.84	
			<i>For Class 54 Rating, Add</i>	9,931.06	
			<i>For Class 55 Rating, Add</i>	14,787.24	
			<i>For Class 56 Rating, Add</i>	19,577.50	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxpE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	71,310.98	2,473.32
			<i>For Class 52 Rating, Deduct</i>	-7,431.99	
			<i>For Class 54 Rating, Add</i>	10,179.50	
			<i>For Class 55 Rating, Add</i>	15,156.60	
			<i>For Class 56 Rating, Add</i>	20,066.15	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxpE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,955.50	2,476.20
			<i>For Class 52 Rating, Deduct</i>	-7,612.41	
			<i>For Class 54 Rating, Add</i>	10,425.58	
			<i>For Class 55 Rating, Add</i>	15,522.47	
			<i>For Class 56 Rating, Add</i>	20,550.15	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxpE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,602.26	2,479.07
			<i>For Class 52 Rating, Deduct</i>	-7,793.07	
			<i>For Class 54 Rating, Add</i>	10,671.99	
			<i>For Class 55 Rating, Add</i>	15,888.83	
			<i>For Class 56 Rating, Add</i>	21,034.82	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxpE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	76,260.25	2,481.94
			<i>For Class 52 Rating, Deduct</i>	-7,974.97	
			<i>For Class 54 Rating, Add</i>	10,920.09	
			<i>For Class 55 Rating, Add</i>	16,257.69	
			<i>For Class 56 Rating, Add</i>	21,522.80	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree

Elbows (40 05 19 00-0001)

40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	422.08	138.59
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	596.74	177.23
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	844.48	200.74
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,243.29	254.51
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,545.38	282.22
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,935.26	306.58
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,384.04	377.98
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,136.41	453.57
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,861.09	571.16
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,918.56	646.76
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,000.31	856.75
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	14,225.19	970.14
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	23,928.51	1,108.73
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	31,883.89	1,360.71

40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree

Elbows (40 05 19 00-0001)

40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	398.86	138.59
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	559.58	177.23
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	750.04	200.74
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,107.05	254.51
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,371.99	282.22
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,582.28	306.58
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,993.90	377.98
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,611.58	453.57



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,382.71	571.16
40 05 19 00-1605	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,475.68	646.76
40 05 19 00-1606	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	8,944.46	856.75
40 05 19 00-1607	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	13,454.21	970.14
40 05 19 00-1608	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	20,613.90	1,108.73
40 05 19 00-1609	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	28,134.24	1,360.71
40 05 19 00-1610		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1611	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	397.31	138.59
40 05 19 00-1612	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	547.20	177.23
40 05 19 00-1613	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	739.20	200.74
40 05 19 00-1614	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,076.09	254.51
40 05 19 00-1615	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,440.11	282.22
40 05 19 00-1616	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,797.48	306.58
40 05 19 00-1617	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,041.89	377.98
40 05 19 00-1618	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,670.41	453.57
40 05 19 00-1619	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,638.15	571.16
40 05 19 00-1620	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,057.78	646.76
40 05 19 00-1621	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,048.19	856.75
40 05 19 00-1622	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	13,692.62	970.14
40 05 19 00-1623	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	21,089.18	1,108.73
40 05 19 00-1624	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	28,753.51	1,360.71
40 05 19 00-1625		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1626	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	436.01	138.59
40 05 19 00-1627	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	619.96	177.23
40 05 19 00-1628	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	770.17	200.74
40 05 19 00-1629	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,186.01	254.51
40 05 19 00-1630	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,642.92	282.22
40 05 19 00-1631	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,850.11	306.58
40 05 19 00-1632	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,261.73	377.98
40 05 19 00-1633	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,670.41	453.57
40 05 19 00-1634	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,638.15	571.16
40 05 19 00-1635	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,266.79	646.76
40 05 19 00-1636	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,151.92	856.75
40 05 19 00-1637	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	13,794.80	970.14
40 05 19 00-1638	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	21,197.55	1,108.73
40 05 19 00-1639	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	28,971.80	1,360.71
40 05 19 00-1640		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1641	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	565.92	157.91
40 05 19 00-1642	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	702.94	169.67
40 05 19 00-1643	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	792.60	188.98
40 05 19 00-1644	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,068.78	196.55
40 05 19 00-1645	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,127.47	215.86
40 05 19 00-1646	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,233.53	227.62
40 05 19 00-1647	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,149.24	210.83
40 05 19 00-1648	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,296.17	230.14
40 05 19 00-1649	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,493.58	241.90
40 05 19 00-1650	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,590.03	268.78
40 05 19 00-1651	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,493.58	241.90
40 05 19 00-1652	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,656.93	253.66
40 05 19 00-1653	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,846.27	280.54
40 05 19 00-1654	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,045.95	294.82
40 05 19 00-1655	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,722.61	277.60
40 05 19 00-1656	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,859.64	289.36
40 05 19 00-1657	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,137.23	316.24
40 05 19 00-1658	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,334.72	330.10
40 05 19 00-1659	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,501.79	342.28
40 05 19 00-1660	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,016.75	315.40
40 05 19 00-1661	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,420.06	327.16
40 05 19 00-1662	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,490.20	354.04
40 05 19 00-1663	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,630.41	367.89
40 05 19 00-1664	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,856.31	380.08
40 05 19 00-1665	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,114.76	415.77
40 05 19 00-1666	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,607.43	374.20
40 05 19 00-1667	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,784.72	385.96
40 05 19 00-1668	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,461.73	412.83
40 05 19 00-1669	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,592.65	426.69
40 05 19 00-1670	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,967.18	438.87
40 05 19 00-1671	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,874.19	474.56
40 05 19 00-1672	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,123.43	512.36
40 05 19 00-1673	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,683.39	412.00
40 05 19 00-1674	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,862.22	423.76

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,156.84	450.63
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,369.81	464.49
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,770.66	476.67
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,142.12	512.36
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,262.87	550.16
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,540.05	544.08
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,597.23	569.49
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,025.96	581.66
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,925.33	617.36
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,221.13	655.16
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,667.96	713.96
40 05 19 00-1686	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,267.08	751.75
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,109.11	626.18
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,821.36	638.36
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,591.91	674.06
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,547.34	711.86
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,990.85	770.65
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,077.63	808.45
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,945.77	913.44
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,168.31	707.65
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,616.84	743.35
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,369.69	781.15
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,067.08	839.95
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	15,751.03	877.75
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,566.74	982.73
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	26,263.41	1,039.43
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,133.77	1,014.24
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	27,331.79	1,119.23
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,129.84	1,175.92
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	36,005.05	1,245.22

40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)

40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	507.23	138.59
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	787.16	177.23
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,163.40	200.74
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,658.20	254.51
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,351.97	282.22
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,744.95	306.58
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,563.74	377.98
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,416.74	453.57
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,028.51	571.16
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,881.74	646.76
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,671.22	856.75
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	23,899.64	970.14
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	37,111.09	1,108.73

40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)

40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	536.64	138.59
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	729.88	177.23
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,203.65	200.74
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,628.78	254.51
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,195.61	282.22
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,596.33	306.58
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,207.66	377.98
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,032.79	453.57
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,325.65	571.16
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,544.13	646.76
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,393.76	856.75
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	17,755.00	970.14
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	33,067.30	1,108.73
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	35,635.08	1,360.71

40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)

40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	724.29	222.59
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	897.92	273.82
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,269.83	305.74
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,828.10	397.29
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,440.17	433.41
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,280.91	466.17
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,710.06	587.96
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,529.35	671.96
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,713.11	848.35
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,450.74	936.54
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,417.92	1,293.52
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	20,827.25	1,482.50



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	43,233.85	1,713.49
40 05 19 00-1748		Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees		
		<small>(40 05 19 00-0001)</small>		
40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	910.83	248.63
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,133.65	253.66
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,129.37	285.58
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,501.03	280.54
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,478.19	312.46
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,558.26	332.62
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,909.71	294.82
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,900.79	326.74
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,007.20	346.90
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,391.60	411.57
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,797.59	306.58
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,732.94	338.50
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,853.27	358.66
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,008.55	423.33
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,190.90	445.59
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,396.63	342.28
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,122.97	374.20
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,069.92	394.36
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,602.94	459.03
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,492.70	481.29
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,898.52	501.87
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,158.31	380.08
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,119.86	412.00
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,765.03	432.16
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,771.68	496.83
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,107.30	519.09
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,486.82	539.66
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,795.30	625.76
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,235.56	438.87
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,602.30	470.79
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,696.32	490.95
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,890.30	555.63
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,081.93	577.89
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,145.62	598.46
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,200.32	684.56
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,333.79	730.76
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,108.27	476.67
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,264.90	508.59
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,504.44	528.74
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,718.54	593.42
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,414.88	615.69
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,573.01	636.26
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,787.06	722.36
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,939.34	768.56
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,243.67	821.26
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,865.76	613.58
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,928.81	633.74
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,232.72	698.41
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,266.45	720.67
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,297.62	741.26
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,530.24	827.35
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,668.36	873.54
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,015.27	991.13
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,404.70	1,041.53
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,985.33	878.16
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,035.93	894.13
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,139.35	939.90
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,268.89	957.95
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,327.77	974.34
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,488.16	1,035.24
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,585.85	1,077.23
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,855.71	1,165.43
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,230.61	1,209.53
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,585.21	1,388.01
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	26,889.27	759.73
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,299.65	824.41
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,333.38	846.67
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,400.17	867.25
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,603.39	953.34
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,856.06	999.54
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,034.23	1,117.13
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,401.64	1,167.52
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,191.27	1,419.51
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	41,386.52	1,551.81
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,915.73	983.16
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,946.91	1,003.74
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,185.73	1,089.83

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826	EA		48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,255.73	1,136.03
40 05 19 00-1827	EA		48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,577.88	1,253.62
40 05 19 00-1828	EA		48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,909.69	1,304.01
40 05 19 00-1829	EA		48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,802.37	1,556.00
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)					
40 05 19 00-1831	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	783.12	222.59
40 05 19 00-1832	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,066.67	273.82
40 05 19 00-1833	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,560.89	305.74
40 05 19 00-1834	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,377.70	397.29
40 05 19 00-1835	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,201.87	433.41
40 05 19 00-1836	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,578.16	466.17
40 05 19 00-1837	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,440.79	587.96
40 05 19 00-1838	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,397.86	671.96
40 05 19 00-1839	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,211.73	848.35
40 05 19 00-1840	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	10,404.52	936.54
40 05 19 00-1841	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	17,460.06	1,293.52
40 05 19 00-1842	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	24,912.84	1,482.50
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)					
40 05 19 00-1844	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	634.50	222.59
40 05 19 00-1845	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	890.18	273.82
40 05 19 00-1846	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,293.05	305.74
40 05 19 00-1847	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,699.61	397.29
40 05 19 00-1848	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,432.43	433.41
40 05 19 00-1849	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	3,163.25	466.17
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)					
40 05 19 00-1851	EA		4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	871.68	306.58
40 05 19 00-1852	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,155.11	332.20
40 05 19 00-1853	EA		6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,222.30	370.42
40 05 19 00-1854	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,429.66	337.66
40 05 19 00-1855	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,557.50	382.18
40 05 19 00-1856	EA		8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,611.59	410.74
40 05 19 00-1857	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,854.33	364.54
40 05 19 00-1858	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,040.99	409.05
40 05 19 00-1859	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,232.88	437.61
40 05 19 00-1860	EA		10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,772.10	540.09
40 05 19 00-1861	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,407.89	378.39
40 05 19 00-1862	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,534.18	422.91
40 05 19 00-1863	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,727.61	451.47
40 05 19 00-1864	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,296.24	553.94
40 05 19 00-1865	EA		12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,099.63	584.60
40 05 19 00-1866	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,026.37	435.09
40 05 19 00-1867	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,218.26	463.65
40 05 19 00-1868	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,580.98	566.13
40 05 19 00-1869	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,895.26	596.79
40 05 19 00-1870	EA		14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,086.24	625.76
40 05 19 00-1871	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,614.57	470.79
40 05 19 00-1872	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,834.33	499.34
40 05 19 00-1873	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,197.05	601.82
40 05 19 00-1874	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,540.74	632.48
40 05 19 00-1875	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,348.01	661.46
40 05 19 00-1876	EA		16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,145.98	797.95
40 05 19 00-1877	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,761.64	508.59
40 05 19 00-1878	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,979.84	537.14
40 05 19 00-1879	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,283.73	639.62
40 05 19 00-1880	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,625.88	670.28
40 05 19 00-1881	EA		18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,320.02	699.25
40 05 19 00-1882	EA		18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,794.65	835.74
40 05 19 00-1883	EA		18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,055.42	890.34
40 05 19 00-1884	EA		20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,908.11	567.39
40 05 19 00-1885	EA		20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,141.80	595.94
40 05 19 00-1886	EA		20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,424.02	698.41
40 05 19 00-1887	EA		20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,789.38	729.07
40 05 19 00-1888	EA		20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,896.78	758.05
40 05 19 00-1889	EA		20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,187.29	894.54
40 05 19 00-1890	EA		20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,460.43	949.14
40 05 19 00-1891	EA		20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,175.11	1,125.53
40 05 19 00-1892	EA		24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,494.96	605.18
40 05 19 00-1893	EA		24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,663.63	633.74
40 05 19 00-1894	EA		24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,041.84	736.21
40 05 19 00-1895	EA		24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,280.25	766.87
40 05 19 00-1896	EA		24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,420.14	795.85
40 05 19 00-1897	EA		24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,849.89	932.34
40 05 19 00-1898	EA		24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,196.02	986.94



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	10,776.77	1,098.45
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,863.82	1,226.32
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,007.96	871.87
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,085.92	900.84
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,531.14	1,037.33
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,681.98	1,091.94
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,325.45	1,268.32
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,347.02	1,331.32
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,690.11	1,730.29
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	16,973.25	1,109.15
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,010.80	1,133.93
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,386.88	1,245.22
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,529.81	1,295.61
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,060.60	1,442.60
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,693.00	1,499.30
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,295.20	1,824.78
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,737.37	1,994.88
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,108.95	997.86
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,152.86	1,026.84
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,577.96	1,163.33
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,696.29	1,217.92
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,291.75	1,394.31
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,933.70	1,457.31
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,673.67	1,856.29
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	47,952.95	2,064.17
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,483.56	2,318.25
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	33,696.51	1,163.33
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,123.16	1,299.82
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,241.48	1,354.41
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,799.80	1,530.80
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,441.75	1,593.80
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	37,029.34	1,992.78
40 05 19 00-1931		Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)		
40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	465.29	157.91
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	596.12	169.67
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	656.36	188.98
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	804.05	196.55
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	810.10	215.86
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	948.67	227.62
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,030.04	210.83
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,063.95	230.14
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,166.92	241.90
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,312.91	268.78
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,618.19	230.14
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,284.58	241.90
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,421.61	253.66
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,562.96	280.54
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,518.03	294.82
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,916.28	258.28
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,547.67	277.60
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,460.22	289.36
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,627.88	316.24
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,021.99	330.10
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,176.68	342.28
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,425.47	315.40
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,916.91	327.16
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,106.25	354.04
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,091.65	367.89
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,410.44	380.08
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,404.15	415.77
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,478.94	374.20
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,402.32	385.96
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,602.50	412.83
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,535.26	426.69
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,929.91	438.87
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,745.58	474.56
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,391.15	512.36
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,255.34	423.76
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,678.46	450.63
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,958.00	464.49
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,063.15	476.67
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,589.32	512.36
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,338.61	550.16
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,584.83	544.08
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,261.06	617.36
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,524.24	655.16
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,023.59	713.96
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,763.60	751.75

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,567.03	674.06
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,998.96	711.86
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,566.43	770.65
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,410.15	808.45
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,002.83	913.44
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,585.27	877.75
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,490.66	982.73
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,652.65	1,039.43
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,541.71	1,014.24
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	20,812.49	1,119.23
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	23,265.52	1,175.92
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	26,065.86	1,245.22

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	507.09	157.91
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	644.11	169.67
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	732.22	188.98
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	804.05	196.55
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	861.19	215.86
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	996.67	227.62
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,030.04	210.83
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,119.68	230.14
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,225.75	241.90
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,415.09	268.78
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,284.58	241.90
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,392.19	253.66
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,552.12	280.54
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,779.67	294.82
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,547.67	277.60
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,681.60	289.36
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,870.95	316.24
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,069.98	330.10
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,176.68	342.28
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,916.91	327.16
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,106.25	354.04
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,305.29	367.89
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,410.44	380.08
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,642.57	415.77
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,810.24	374.20
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,561.78	385.96
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,602.50	412.83
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,846.44	426.69
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,929.91	438.87
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,203.84	474.56
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,389.60	512.36
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,574.27	423.76
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,678.46	450.63
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,762.93	464.49
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,844.86	476.67
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,123.43	512.36
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,338.61	550.16
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,584.83	544.08
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,505.89	581.66
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,320.00	617.36
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,558.30	655.16
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,023.59	713.96
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,763.60	751.75
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,635.15	674.06
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,998.96	711.86
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,532.37	770.65
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,373.00	808.45
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	11,968.77	913.44
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	14,585.27	877.75
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,310.63	982.73
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	18,652.65	1,039.43
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	20,812.49	1,119.23
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	23,265.52	1,175.92
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	26,065.86	1,245.22

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	180.26	54.60
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	270.80	80.63
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	394.33	95.76
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	543.91	111.71
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	703.23	131.04
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	931.77	146.99
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,113.76	167.99



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052	EA			18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,508.17	235.18
40 05 19 00-2053	EA			20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,004.42	293.98
40 05 19 00-2054	EA			24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,860.02	356.97
40 05 19 00-2055	EA			30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	4,039.01	415.77
40 05 19 00-2056	EA			36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,236.11	457.77
40 05 19 00-2057	EA			42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	10,213.56	503.96
40 05 19 00-2058	EA			48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	13,505.96	566.96
40 05 19 00-2059				Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping <small>(40 05 19)</small>		
				Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets.		
40 05 19 00-2060				Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
40 05 19 00-2061				4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>		
40 05 19 00-2062	EA			4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,114.66	240.23
				For Class 52 Rating, Deduct	-82.57	
				For Class 54 Rating, Add	116.97	
				For Class 55 Rating, Add	176.14	
				For Class 56 Rating, Add	234.55	
40 05 19 00-2063	EA			4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,227.85	244.42
				For Class 52 Rating, Deduct	-94.33	
				For Class 54 Rating, Add	133.07	
				For Class 55 Rating, Add	200.11	
				For Class 56 Rating, Add	266.30	
40 05 19 00-2064	EA			4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,341.06	248.63
				For Class 52 Rating, Deduct	-106.08	
				For Class 54 Rating, Add	149.17	
				For Class 55 Rating, Add	224.09	
				For Class 56 Rating, Add	298.04	
40 05 19 00-2065	EA			4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,454.26	252.82
				For Class 52 Rating, Deduct	-117.83	
				For Class 54 Rating, Add	165.28	
				For Class 55 Rating, Add	248.07	
				For Class 56 Rating, Add	329.79	
40 05 19 00-2066	EA			4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,567.46	257.02
				For Class 52 Rating, Deduct	-129.58	
				For Class 54 Rating, Add	181.38	
				For Class 55 Rating, Add	272.05	
				For Class 56 Rating, Add	361.54	
40 05 19 00-2067	EA			4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,680.66	261.22
				For Class 52 Rating, Deduct	-141.33	
				For Class 54 Rating, Add	197.48	
				For Class 55 Rating, Add	296.02	
				For Class 56 Rating, Add	393.28	
40 05 19 00-2068	EA			4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,793.86	265.42
				For Class 52 Rating, Deduct	-153.09	
				For Class 54 Rating, Add	213.58	
				For Class 55 Rating, Add	320.00	
				For Class 56 Rating, Add	425.03	
40 05 19 00-2069	EA			4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,907.06	269.63
				For Class 52 Rating, Deduct	-164.84	
				For Class 54 Rating, Add	229.68	
				For Class 55 Rating, Add	343.98	
				For Class 56 Rating, Add	456.78	
40 05 19 00-2070	EA			4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,020.27	273.82
				For Class 52 Rating, Deduct	-176.59	
				For Class 54 Rating, Add	245.79	
				For Class 55 Rating, Add	367.96	
				For Class 56 Rating, Add	488.52	
40 05 19 00-2071	EA			4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,133.47	278.03
				For Class 52 Rating, Deduct	-188.34	
				For Class 54 Rating, Add	261.89	
				For Class 55 Rating, Add	391.94	
				For Class 56 Rating, Add	520.27	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2072	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,246.66	282.22
		<i>For Class 52 Rating, Deduct</i>		-200.10	
		<i>For Class 54 Rating, Add</i>		277.99	
		<i>For Class 55 Rating, Add</i>		415.91	
		<i>For Class 56 Rating, Add</i>		552.01	
40 05 19 00-2073	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,359.87	286.42
		<i>For Class 52 Rating, Deduct</i>		-211.85	
		<i>For Class 54 Rating, Add</i>		294.09	
		<i>For Class 55 Rating, Add</i>		439.89	
		<i>For Class 56 Rating, Add</i>		583.76	
40 05 19 00-2074	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,473.07	290.62
		<i>For Class 52 Rating, Deduct</i>		-223.60	
		<i>For Class 54 Rating, Add</i>		310.19	
		<i>For Class 55 Rating, Add</i>		463.87	
		<i>For Class 56 Rating, Add</i>		615.51	
40 05 19 00-2075	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,586.27	294.82
		<i>For Class 52 Rating, Deduct</i>		-235.35	
		<i>For Class 54 Rating, Add</i>		326.30	
		<i>For Class 55 Rating, Add</i>		487.84	
		<i>For Class 56 Rating, Add</i>		647.25	
40 05 19 00-2076	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,699.47	299.02
		<i>For Class 52 Rating, Deduct</i>		-247.10	
		<i>For Class 54 Rating, Add</i>		342.40	
		<i>For Class 55 Rating, Add</i>		511.82	
		<i>For Class 56 Rating, Add</i>		679.00	
40 05 19 00-2077	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,812.66	303.22
		<i>For Class 52 Rating, Deduct</i>		-258.86	
		<i>For Class 54 Rating, Add</i>		358.50	
		<i>For Class 55 Rating, Add</i>		535.80	
		<i>For Class 56 Rating, Add</i>		710.74	
40 05 19 00-2078	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,925.86	307.42
		<i>For Class 52 Rating, Deduct</i>		-270.61	
		<i>For Class 54 Rating, Add</i>		374.60	
		<i>For Class 55 Rating, Add</i>		559.78	
		<i>For Class 56 Rating, Add</i>		742.49	
40 05 19 00-2079	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,039.07	311.62
		<i>For Class 52 Rating, Deduct</i>		-282.36	
		<i>For Class 54 Rating, Add</i>		390.70	
		<i>For Class 55 Rating, Add</i>		583.75	
		<i>For Class 56 Rating, Add</i>		774.24	
40 05 19 00-2080	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,152.27	315.82
		<i>For Class 52 Rating, Deduct</i>		-294.11	
		<i>For Class 54 Rating, Add</i>		406.81	
		<i>For Class 55 Rating, Add</i>		607.73	
		<i>For Class 56 Rating, Add</i>		805.99	
40 05 19 00-2081	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,265.46	320.02
		<i>For Class 52 Rating, Deduct</i>		-305.86	
		<i>For Class 54 Rating, Add</i>		422.91	
		<i>For Class 55 Rating, Add</i>		631.71	
		<i>For Class 56 Rating, Add</i>		837.73	
40 05 19 00-2082	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,378.67	324.22
		<i>For Class 52 Rating, Deduct</i>		-317.62	
		<i>For Class 54 Rating, Add</i>		439.01	
		<i>For Class 55 Rating, Add</i>		655.69	
		<i>For Class 56 Rating, Add</i>		869.48	
40 05 19 00-2083	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,491.87	328.42
		<i>For Class 52 Rating, Deduct</i>		-329.37	
		<i>For Class 54 Rating, Add</i>		455.11	
		<i>For Class 55 Rating, Add</i>		679.66	
		<i>For Class 56 Rating, Add</i>		901.22	
40 05 19 00-2084	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,605.07	332.62
		<i>For Class 52 Rating, Deduct</i>		-341.12	
		<i>For Class 54 Rating, Add</i>		471.21	
		<i>For Class 55 Rating, Add</i>		703.64	
		<i>For Class 56 Rating, Add</i>		932.97	
40 05 19 00-2085	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,718.27	336.82
		<i>For Class 52 Rating, Deduct</i>		-352.87	
		<i>For Class 54 Rating, Add</i>		487.31	
		<i>For Class 55 Rating, Add</i>		727.62	
		<i>For Class 56 Rating, Add</i>		964.71	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2086 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,831.47	341.02
<i>For Class 52 Rating, Deduct</i>	-364.63	
<i>For Class 54 Rating, Add</i>	503.42	
<i>For Class 55 Rating, Add</i>	751.60	
<i>For Class 56 Rating, Add</i>	996.46	
40 05 19 00-2087 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,944.68	345.21
<i>For Class 52 Rating, Deduct</i>	-376.38	
<i>For Class 54 Rating, Add</i>	519.52	
<i>For Class 55 Rating, Add</i>	775.57	
<i>For Class 56 Rating, Add</i>	1,028.21	
40 05 19 00-2088 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,057.88	349.42
<i>For Class 52 Rating, Deduct</i>	-388.13	
<i>For Class 54 Rating, Add</i>	535.62	
<i>For Class 55 Rating, Add</i>	799.55	
<i>For Class 56 Rating, Add</i>	1,059.95	
40 05 19 00-2089 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,171.08	353.61
<i>For Class 52 Rating, Deduct</i>	-399.88	
<i>For Class 54 Rating, Add</i>	551.72	
<i>For Class 55 Rating, Add</i>	823.53	
<i>For Class 56 Rating, Add</i>	1,091.70	
40 05 19 00-2090 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,284.28	357.82
<i>For Class 52 Rating, Deduct</i>	-411.63	
<i>For Class 54 Rating, Add</i>	567.83	
<i>For Class 55 Rating, Add</i>	847.51	
<i>For Class 56 Rating, Add</i>	1,123.45	
40 05 19 00-2091 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,397.48	362.02
<i>For Class 52 Rating, Deduct</i>	-423.39	
<i>For Class 54 Rating, Add</i>	583.93	
<i>For Class 55 Rating, Add</i>	871.48	
<i>For Class 56 Rating, Add</i>	1,155.19	
40 05 19 00-2092 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,510.68	366.22
<i>For Class 52 Rating, Deduct</i>	-435.14	
<i>For Class 54 Rating, Add</i>	600.03	
<i>For Class 55 Rating, Add</i>	895.46	
<i>For Class 56 Rating, Add</i>	1,186.94	
40 05 19 00-2093 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,623.89	370.42
<i>For Class 52 Rating, Deduct</i>	-446.89	
<i>For Class 54 Rating, Add</i>	616.13	
<i>For Class 55 Rating, Add</i>	919.44	
<i>For Class 56 Rating, Add</i>	1,218.69	
40 05 19 00-2094 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,737.08	374.61
<i>For Class 52 Rating, Deduct</i>	-458.64	
<i>For Class 54 Rating, Add</i>	632.23	
<i>For Class 55 Rating, Add</i>	943.42	
<i>For Class 56 Rating, Add</i>	1,250.43	
40 05 19 00-2095 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,850.28	378.82
<i>For Class 52 Rating, Deduct</i>	-470.40	
<i>For Class 54 Rating, Add</i>	648.34	
<i>For Class 55 Rating, Add</i>	967.39	
<i>For Class 56 Rating, Add</i>	1,282.18	
40 05 19 00-2096 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,963.49	383.01
<i>For Class 52 Rating, Deduct</i>	-482.15	
<i>For Class 54 Rating, Add</i>	664.44	
<i>For Class 55 Rating, Add</i>	991.37	
<i>For Class 56 Rating, Add</i>	1,313.92	
40 05 19 00-2097 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,076.69	387.22
<i>For Class 52 Rating, Deduct</i>	-493.90	
<i>For Class 54 Rating, Add</i>	680.54	
<i>For Class 55 Rating, Add</i>	1,015.35	
<i>For Class 56 Rating, Add</i>	1,345.67	
40 05 19 00-2098 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,189.89	391.41
<i>For Class 52 Rating, Deduct</i>	-505.65	
<i>For Class 54 Rating, Add</i>	696.64	
<i>For Class 55 Rating, Add</i>	1,039.33	
<i>For Class 56 Rating, Add</i>	1,377.42	
40 05 19 00-2099 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,303.09	395.62
<i>For Class 52 Rating, Deduct</i>	-517.40	
<i>For Class 54 Rating, Add</i>	712.74	
<i>For Class 55 Rating, Add</i>	1,063.30	
<i>For Class 56 Rating, Add</i>	1,409.16	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2100	EA		4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,416.29	399.81
			<i>For Class 52 Rating, Deduct</i>	-529.16	
			<i>For Class 54 Rating, Add</i>	728.85	
			<i>For Class 55 Rating, Add</i>	1,087.28	
			<i>For Class 56 Rating, Add</i>	1,440.91	
40 05 19 00-2101			6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>		
40 05 19 00-2102	EA		6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,394.39	302.38
			<i>For Class 52 Rating, Deduct</i>	-102.99	
			<i>For Class 54 Rating, Add</i>	145.93	
			<i>For Class 55 Rating, Add</i>	219.78	
			<i>For Class 56 Rating, Add</i>	292.68	
40 05 19 00-2103	EA		6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,524.45	306.58
			<i>For Class 52 Rating, Deduct</i>	-116.59	
			<i>For Class 54 Rating, Add</i>	164.57	
			<i>For Class 55 Rating, Add</i>	247.51	
			<i>For Class 56 Rating, Add</i>	329.40	
40 05 19 00-2104	EA		6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,654.53	310.78
			<i>For Class 52 Rating, Deduct</i>	-130.20	
			<i>For Class 54 Rating, Add</i>	183.20	
			<i>For Class 55 Rating, Add</i>	275.26	
			<i>For Class 56 Rating, Add</i>	366.13	
40 05 19 00-2105	EA		6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,784.60	314.98
			<i>For Class 52 Rating, Deduct</i>	-143.81	
			<i>For Class 54 Rating, Add</i>	201.83	
			<i>For Class 55 Rating, Add</i>	303.00	
			<i>For Class 56 Rating, Add</i>	402.85	
40 05 19 00-2106	EA		6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,914.66	319.18
			<i>For Class 52 Rating, Deduct</i>	-157.42	
			<i>For Class 54 Rating, Add</i>	220.46	
			<i>For Class 55 Rating, Add</i>	330.73	
			<i>For Class 56 Rating, Add</i>	439.57	
40 05 19 00-2107	EA		6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,044.74	323.38
			<i>For Class 52 Rating, Deduct</i>	-171.02	
			<i>For Class 54 Rating, Add</i>	239.10	
			<i>For Class 55 Rating, Add</i>	358.47	
			<i>For Class 56 Rating, Add</i>	476.30	
40 05 19 00-2108	EA		6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,174.81	327.57
			<i>For Class 52 Rating, Deduct</i>	-184.63	
			<i>For Class 54 Rating, Add</i>	257.73	
			<i>For Class 55 Rating, Add</i>	386.21	
			<i>For Class 56 Rating, Add</i>	513.02	
40 05 19 00-2109	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,304.87	331.78
			<i>For Class 52 Rating, Deduct</i>	-198.24	
			<i>For Class 54 Rating, Add</i>	276.36	
			<i>For Class 55 Rating, Add</i>	413.95	
			<i>For Class 56 Rating, Add</i>	549.74	
40 05 19 00-2110	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,434.95	335.98
			<i>For Class 52 Rating, Deduct</i>	-211.85	
			<i>For Class 54 Rating, Add</i>	294.99	
			<i>For Class 55 Rating, Add</i>	441.69	
			<i>For Class 56 Rating, Add</i>	586.46	
40 05 19 00-2111	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,565.02	340.18
			<i>For Class 52 Rating, Deduct</i>	-225.46	
			<i>For Class 54 Rating, Add</i>	313.63	
			<i>For Class 55 Rating, Add</i>	469.43	
			<i>For Class 56 Rating, Add</i>	623.19	
40 05 19 00-2112	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,695.08	344.38
			<i>For Class 52 Rating, Deduct</i>	-239.06	
			<i>For Class 54 Rating, Add</i>	332.26	
			<i>For Class 55 Rating, Add</i>	497.17	
			<i>For Class 56 Rating, Add</i>	659.91	
40 05 19 00-2113	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,825.16	348.58
			<i>For Class 52 Rating, Deduct</i>	-252.67	
			<i>For Class 54 Rating, Add</i>	350.89	
			<i>For Class 55 Rating, Add</i>	524.91	
			<i>For Class 56 Rating, Add</i>	696.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2114 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,955.23	352.78
<i>For Class 52 Rating, Deduct</i>	-266.28	
<i>For Class 54 Rating, Add</i>	369.52	
<i>For Class 55 Rating, Add</i>	552.65	
<i>For Class 56 Rating, Add</i>	733.35	
40 05 19 00-2115 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,085.31	356.97
<i>For Class 52 Rating, Deduct</i>	-279.89	
<i>For Class 54 Rating, Add</i>	388.16	
<i>For Class 55 Rating, Add</i>	580.39	
<i>For Class 56 Rating, Add</i>	770.08	
40 05 19 00-2116 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,215.37	361.18
<i>For Class 52 Rating, Deduct</i>	-293.49	
<i>For Class 54 Rating, Add</i>	406.79	
<i>For Class 55 Rating, Add</i>	608.13	
<i>For Class 56 Rating, Add</i>	806.80	
40 05 19 00-2117 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,345.44	365.37
<i>For Class 52 Rating, Deduct</i>	-307.10	
<i>For Class 54 Rating, Add</i>	425.42	
<i>For Class 55 Rating, Add</i>	635.87	
<i>For Class 56 Rating, Add</i>	843.52	
40 05 19 00-2118 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,475.52	369.58
<i>For Class 52 Rating, Deduct</i>	-320.71	
<i>For Class 54 Rating, Add</i>	444.05	
<i>For Class 55 Rating, Add</i>	663.61	
<i>For Class 56 Rating, Add</i>	880.25	
40 05 19 00-2119 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,605.58	373.77
<i>For Class 52 Rating, Deduct</i>	-334.32	
<i>For Class 54 Rating, Add</i>	462.68	
<i>For Class 55 Rating, Add</i>	691.34	
<i>For Class 56 Rating, Add</i>	916.97	
40 05 19 00-2120 EA 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,735.65	377.98
<i>For Class 52 Rating, Deduct</i>	-347.93	
<i>For Class 54 Rating, Add</i>	481.32	
<i>For Class 55 Rating, Add</i>	719.08	
<i>For Class 56 Rating, Add</i>	953.69	
40 05 19 00-2121 EA 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,865.73	382.18
<i>For Class 52 Rating, Deduct</i>	-361.53	
<i>For Class 54 Rating, Add</i>	499.95	
<i>For Class 55 Rating, Add</i>	746.82	
<i>For Class 56 Rating, Add</i>	990.41	
40 05 19 00-2122 EA 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,995.79	386.37
<i>For Class 52 Rating, Deduct</i>	-375.14	
<i>For Class 54 Rating, Add</i>	518.58	
<i>For Class 55 Rating, Add</i>	774.56	
<i>For Class 56 Rating, Add</i>	1,027.13	
40 05 19 00-2123 EA 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,125.86	390.58
<i>For Class 52 Rating, Deduct</i>	-388.75	
<i>For Class 54 Rating, Add</i>	537.21	
<i>For Class 55 Rating, Add</i>	802.30	
<i>For Class 56 Rating, Add</i>	1,063.86	
40 05 19 00-2124 EA 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,255.94	394.77
<i>For Class 52 Rating, Deduct</i>	-402.36	
<i>For Class 54 Rating, Add</i>	555.85	
<i>For Class 55 Rating, Add</i>	830.04	
<i>For Class 56 Rating, Add</i>	1,100.58	
40 05 19 00-2125 EA 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,386.00	398.98
<i>For Class 52 Rating, Deduct</i>	-415.96	
<i>For Class 54 Rating, Add</i>	574.48	
<i>For Class 55 Rating, Add</i>	857.78	
<i>For Class 56 Rating, Add</i>	1,137.30	
40 05 19 00-2126 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,516.07	403.17
<i>For Class 52 Rating, Deduct</i>	-429.57	
<i>For Class 54 Rating, Add</i>	593.11	
<i>For Class 55 Rating, Add</i>	885.52	
<i>For Class 56 Rating, Add</i>	1,174.03	
40 05 19 00-2127 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,646.15	407.38
<i>For Class 52 Rating, Deduct</i>	-443.18	
<i>For Class 54 Rating, Add</i>	611.74	
<i>For Class 55 Rating, Add</i>	913.26	
<i>For Class 56 Rating, Add</i>	1,210.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2128	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,776.22	411.57
		<i>For Class 52 Rating, Deduct</i>		-456.79	
		<i>For Class 54 Rating, Add</i>		630.38	
		<i>For Class 55 Rating, Add</i>		941.00	
		<i>For Class 56 Rating, Add</i>		1,247.47	
40 05 19 00-2129	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,906.28	415.77
		<i>For Class 52 Rating, Deduct</i>		-470.40	
		<i>For Class 54 Rating, Add</i>		649.01	
		<i>For Class 55 Rating, Add</i>		968.74	
		<i>For Class 56 Rating, Add</i>		1,284.19	
40 05 19 00-2130	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,036.36	419.97
		<i>For Class 52 Rating, Deduct</i>		-484.00	
		<i>For Class 54 Rating, Add</i>		667.64	
		<i>For Class 55 Rating, Add</i>		996.48	
		<i>For Class 56 Rating, Add</i>		1,320.92	
40 05 19 00-2131	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,166.43	424.17
		<i>For Class 52 Rating, Deduct</i>		-497.61	
		<i>For Class 54 Rating, Add</i>		686.27	
		<i>For Class 55 Rating, Add</i>		1,024.22	
		<i>For Class 56 Rating, Add</i>		1,357.64	
40 05 19 00-2132	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,296.49	428.38
		<i>For Class 52 Rating, Deduct</i>		-511.22	
		<i>For Class 54 Rating, Add</i>		704.90	
		<i>For Class 55 Rating, Add</i>		1,051.96	
		<i>For Class 56 Rating, Add</i>		1,394.36	
40 05 19 00-2133	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,426.57	432.57
		<i>For Class 52 Rating, Deduct</i>		-524.83	
		<i>For Class 54 Rating, Add</i>		723.54	
		<i>For Class 55 Rating, Add</i>		1,079.70	
		<i>For Class 56 Rating, Add</i>		1,431.08	
40 05 19 00-2134	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,556.64	436.78
		<i>For Class 52 Rating, Deduct</i>		-538.43	
		<i>For Class 54 Rating, Add</i>		742.17	
		<i>For Class 55 Rating, Add</i>		1,107.44	
		<i>For Class 56 Rating, Add</i>		1,467.81	
40 05 19 00-2135	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,686.69	440.97
		<i>For Class 52 Rating, Deduct</i>		-552.04	
		<i>For Class 54 Rating, Add</i>		760.80	
		<i>For Class 55 Rating, Add</i>		1,135.17	
		<i>For Class 56 Rating, Add</i>		1,504.53	
40 05 19 00-2136	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,816.77	445.17
		<i>For Class 52 Rating, Deduct</i>		-565.65	
		<i>For Class 54 Rating, Add</i>		779.43	
		<i>For Class 55 Rating, Add</i>		1,162.91	
		<i>For Class 56 Rating, Add</i>		1,541.25	
40 05 19 00-2137	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,946.84	449.37
		<i>For Class 52 Rating, Deduct</i>		-579.26	
		<i>For Class 54 Rating, Add</i>		798.07	
		<i>For Class 55 Rating, Add</i>		1,190.65	
		<i>For Class 56 Rating, Add</i>		1,577.98	
40 05 19 00-2138	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,076.90	453.57
		<i>For Class 52 Rating, Deduct</i>		-592.86	
		<i>For Class 54 Rating, Add</i>		816.70	
		<i>For Class 55 Rating, Add</i>		1,218.39	
		<i>For Class 56 Rating, Add</i>		1,614.70	
40 05 19 00-2139	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,206.98	457.77
		<i>For Class 52 Rating, Deduct</i>		-606.47	
		<i>For Class 54 Rating, Add</i>		835.33	
		<i>For Class 55 Rating, Add</i>		1,246.13	
		<i>For Class 56 Rating, Add</i>		1,651.42	
40 05 19 00-2140	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,337.05	461.97
		<i>For Class 52 Rating, Deduct</i>		-620.08	
		<i>For Class 54 Rating, Add</i>		853.96	
		<i>For Class 55 Rating, Add</i>		1,273.87	
		<i>For Class 56 Rating, Add</i>		1,688.14	

40 05 19 00-2141 8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2060)



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2142 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,937.76	386.37
<i>For Class 52 Rating, Deduct</i>	-148.76	
<i>For Class 54 Rating, Add</i>	209.88	
<i>For Class 55 Rating, Add</i>	315.62	
<i>For Class 56 Rating, Add</i>	420.02	
40 05 19 00-2143 EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,104.38	390.58
<i>For Class 52 Rating, Deduct</i>	-166.39	
<i>For Class 54 Rating, Add</i>	233.99	
<i>For Class 55 Rating, Add</i>	351.51	
<i>For Class 56 Rating, Add</i>	467.52	
40 05 19 00-2144 EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,271.00	394.77
<i>For Class 52 Rating, Deduct</i>	-184.01	
<i>For Class 54 Rating, Add</i>	258.11	
<i>For Class 55 Rating, Add</i>	387.40	
<i>For Class 56 Rating, Add</i>	515.02	
40 05 19 00-2145 EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,437.62	398.98
<i>For Class 52 Rating, Deduct</i>	-201.64	
<i>For Class 54 Rating, Add</i>	282.22	
<i>For Class 55 Rating, Add</i>	423.29	
<i>For Class 56 Rating, Add</i>	562.53	
40 05 19 00-2146 EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,604.24	403.17
<i>For Class 52 Rating, Deduct</i>	-219.27	
<i>For Class 54 Rating, Add</i>	306.34	
<i>For Class 55 Rating, Add</i>	459.18	
<i>For Class 56 Rating, Add</i>	610.04	
40 05 19 00-2147 EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,770.86	407.38
<i>For Class 52 Rating, Deduct</i>	-236.90	
<i>For Class 54 Rating, Add</i>	330.45	
<i>For Class 55 Rating, Add</i>	495.07	
<i>For Class 56 Rating, Add</i>	657.54	
40 05 19 00-2148 EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,937.48	411.57
<i>For Class 52 Rating, Deduct</i>	-254.53	
<i>For Class 54 Rating, Add</i>	354.57	
<i>For Class 55 Rating, Add</i>	530.96	
<i>For Class 56 Rating, Add</i>	705.04	
40 05 19 00-2149 EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,104.10	415.77
<i>For Class 52 Rating, Deduct</i>	-272.16	
<i>For Class 54 Rating, Add</i>	378.68	
<i>For Class 55 Rating, Add</i>	566.85	
<i>For Class 56 Rating, Add</i>	752.55	
40 05 19 00-2150 EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,270.72	419.97
<i>For Class 52 Rating, Deduct</i>	-289.78	
<i>For Class 54 Rating, Add</i>	402.79	
<i>For Class 55 Rating, Add</i>	602.74	
<i>For Class 56 Rating, Add</i>	800.05	
40 05 19 00-2151 EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,437.34	424.17
<i>For Class 52 Rating, Deduct</i>	-307.41	
<i>For Class 54 Rating, Add</i>	426.91	
<i>For Class 55 Rating, Add</i>	638.63	
<i>For Class 56 Rating, Add</i>	847.56	
40 05 19 00-2152 EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,603.96	428.38
<i>For Class 52 Rating, Deduct</i>	-325.04	
<i>For Class 54 Rating, Add</i>	451.03	
<i>For Class 55 Rating, Add</i>	674.52	
<i>For Class 56 Rating, Add</i>	895.06	
40 05 19 00-2153 EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,770.58	432.57
<i>For Class 52 Rating, Deduct</i>	-342.67	
<i>For Class 54 Rating, Add</i>	475.14	
<i>For Class 55 Rating, Add</i>	710.41	
<i>For Class 56 Rating, Add</i>	942.57	
40 05 19 00-2154 EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,937.20	436.78
<i>For Class 52 Rating, Deduct</i>	-360.30	
<i>For Class 54 Rating, Add</i>	499.25	
<i>For Class 55 Rating, Add</i>	746.30	
<i>For Class 56 Rating, Add</i>	990.07	
40 05 19 00-2155 EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,103.81	440.97
<i>For Class 52 Rating, Deduct</i>	-377.92	
<i>For Class 54 Rating, Add</i>	523.37	
<i>For Class 55 Rating, Add</i>	782.19	
<i>For Class 56 Rating, Add</i>	1,037.58	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2156	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,270.43	445.17
		<i>For Class 52 Rating, Deduct</i>		-395.55	
		<i>For Class 54 Rating, Add</i>		547.48	
		<i>For Class 55 Rating, Add</i>		818.08	
		<i>For Class 56 Rating, Add</i>		1,085.08	
40 05 19 00-2157	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,437.05	449.37
		<i>For Class 52 Rating, Deduct</i>		-413.18	
		<i>For Class 54 Rating, Add</i>		571.60	
		<i>For Class 55 Rating, Add</i>		853.97	
		<i>For Class 56 Rating, Add</i>		1,132.59	
40 05 19 00-2158	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,603.67	453.57
		<i>For Class 52 Rating, Deduct</i>		-430.81	
		<i>For Class 54 Rating, Add</i>		595.71	
		<i>For Class 55 Rating, Add</i>		889.86	
		<i>For Class 56 Rating, Add</i>		1,180.09	
40 05 19 00-2159	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,770.29	457.77
		<i>For Class 52 Rating, Deduct</i>		-448.44	
		<i>For Class 54 Rating, Add</i>		619.83	
		<i>For Class 55 Rating, Add</i>		925.75	
		<i>For Class 56 Rating, Add</i>		1,227.60	
40 05 19 00-2160	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,936.91	461.97
		<i>For Class 52 Rating, Deduct</i>		-466.07	
		<i>For Class 54 Rating, Add</i>		643.94	
		<i>For Class 55 Rating, Add</i>		961.64	
		<i>For Class 56 Rating, Add</i>		1,275.10	
40 05 19 00-2161	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,103.54	466.17
		<i>For Class 52 Rating, Deduct</i>		-483.69	
		<i>For Class 54 Rating, Add</i>		668.06	
		<i>For Class 55 Rating, Add</i>		997.53	
		<i>For Class 56 Rating, Add</i>		1,322.61	
40 05 19 00-2162	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,270.15	470.37
		<i>For Class 52 Rating, Deduct</i>		-501.32	
		<i>For Class 54 Rating, Add</i>		692.17	
		<i>For Class 55 Rating, Add</i>		1,033.42	
		<i>For Class 56 Rating, Add</i>		1,370.11	
40 05 19 00-2163	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,436.77	474.56
		<i>For Class 52 Rating, Deduct</i>		-518.95	
		<i>For Class 54 Rating, Add</i>		716.29	
		<i>For Class 55 Rating, Add</i>		1,069.31	
		<i>For Class 56 Rating, Add</i>		1,417.62	
40 05 19 00-2164	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,603.40	478.77
		<i>For Class 52 Rating, Deduct</i>		-536.58	
		<i>For Class 54 Rating, Add</i>		740.40	
		<i>For Class 55 Rating, Add</i>		1,105.20	
		<i>For Class 56 Rating, Add</i>		1,465.12	
40 05 19 00-2165	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,770.01	482.97
		<i>For Class 52 Rating, Deduct</i>		-554.21	
		<i>For Class 54 Rating, Add</i>		764.52	
		<i>For Class 55 Rating, Add</i>		1,141.09	
		<i>For Class 56 Rating, Add</i>		1,512.62	
40 05 19 00-2166	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,936.63	487.17
		<i>For Class 52 Rating, Deduct</i>		-571.84	
		<i>For Class 54 Rating, Add</i>		788.63	
		<i>For Class 55 Rating, Add</i>		1,176.98	
		<i>For Class 56 Rating, Add</i>		1,560.13	
40 05 19 00-2167	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,103.26	491.37
		<i>For Class 52 Rating, Deduct</i>		-589.46	
		<i>For Class 54 Rating, Add</i>		812.75	
		<i>For Class 55 Rating, Add</i>		1,212.87	
		<i>For Class 56 Rating, Add</i>		1,607.64	
40 05 19 00-2168	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,269.87	495.57
		<i>For Class 52 Rating, Deduct</i>		-607.09	
		<i>For Class 54 Rating, Add</i>		836.86	
		<i>For Class 55 Rating, Add</i>		1,248.76	
		<i>For Class 56 Rating, Add</i>		1,655.14	
40 05 19 00-2169	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,436.49	499.77
		<i>For Class 52 Rating, Deduct</i>		-624.72	
		<i>For Class 54 Rating, Add</i>		860.98	
		<i>For Class 55 Rating, Add</i>		1,284.65	
		<i>For Class 56 Rating, Add</i>		1,702.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2170 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,603.12	503.96
For Class 52 Rating, Deduct	-642.35	
For Class 54 Rating, Add	885.09	
For Class 55 Rating, Add	1,320.54	
For Class 56 Rating, Add	1,750.15	
40 05 19 00-2171 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,769.73	508.17
For Class 52 Rating, Deduct	-659.98	
For Class 54 Rating, Add	909.21	
For Class 55 Rating, Add	1,356.43	
For Class 56 Rating, Add	1,797.65	
40 05 19 00-2172 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,936.35	512.36
For Class 52 Rating, Deduct	-677.60	
For Class 54 Rating, Add	933.32	
For Class 55 Rating, Add	1,392.32	
For Class 56 Rating, Add	1,845.16	
40 05 19 00-2173 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,102.98	516.57
For Class 52 Rating, Deduct	-695.23	
For Class 54 Rating, Add	957.44	
For Class 55 Rating, Add	1,428.21	
For Class 56 Rating, Add	1,892.66	
40 05 19 00-2174 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,269.59	520.76
For Class 52 Rating, Deduct	-712.86	
For Class 54 Rating, Add	981.55	
For Class 55 Rating, Add	1,464.10	
For Class 56 Rating, Add	1,940.17	
40 05 19 00-2175 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,436.21	524.97
For Class 52 Rating, Deduct	-730.49	
For Class 54 Rating, Add	1,005.67	
For Class 55 Rating, Add	1,499.99	
For Class 56 Rating, Add	1,987.67	
40 05 19 00-2176 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,602.84	529.17
For Class 52 Rating, Deduct	-748.12	
For Class 54 Rating, Add	1,029.78	
For Class 55 Rating, Add	1,535.88	
For Class 56 Rating, Add	2,035.18	
40 05 19 00-2177 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,769.45	533.36
For Class 52 Rating, Deduct	-765.75	
For Class 54 Rating, Add	1,053.90	
For Class 55 Rating, Add	1,571.77	
For Class 56 Rating, Add	2,082.68	
40 05 19 00-2178 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,936.07	537.57
For Class 52 Rating, Deduct	-783.37	
For Class 54 Rating, Add	1,078.01	
For Class 55 Rating, Add	1,607.66	
For Class 56 Rating, Add	2,130.19	
40 05 19 00-2179 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,102.70	541.76
For Class 52 Rating, Deduct	-801.00	
For Class 54 Rating, Add	1,102.13	
For Class 55 Rating, Add	1,643.55	
For Class 56 Rating, Add	2,177.69	
40 05 19 00-2180 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,269.31	545.97
For Class 52 Rating, Deduct	-818.63	
For Class 54 Rating, Add	1,126.24	
For Class 55 Rating, Add	1,679.44	
For Class 56 Rating, Add	2,225.20	
40 05 19 00-2181 10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-2060)</small>		
40 05 19 00-2182 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,444.58	470.37
For Class 52 Rating, Deduct	-190.51	
For Class 54 Rating, Add	268.34	
For Class 55 Rating, Add	403.32	
For Class 56 Rating, Add	536.57	
40 05 19 00-2183 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,658.99	474.56
For Class 52 Rating, Deduct	-213.39	
For Class 54 Rating, Add	299.62	
For Class 55 Rating, Add	449.87	
For Class 56 Rating, Add	598.17	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2184	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,873.41	478.77
		<i>For Class 52 Rating, Deduct</i>		-236.28	
		<i>For Class 54 Rating, Add</i>		330.90	
		<i>For Class 55 Rating, Add</i>		496.41	
		<i>For Class 56 Rating, Add</i>		659.77	
40 05 19 00-2185	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,087.82	482.97
		<i>For Class 52 Rating, Deduct</i>		-259.17	
		<i>For Class 54 Rating, Add</i>		362.19	
		<i>For Class 55 Rating, Add</i>		542.96	
		<i>For Class 56 Rating, Add</i>		721.38	
40 05 19 00-2186	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,302.24	487.17
		<i>For Class 52 Rating, Deduct</i>		-282.05	
		<i>For Class 54 Rating, Add</i>		393.47	
		<i>For Class 55 Rating, Add</i>		589.51	
		<i>For Class 56 Rating, Add</i>		782.99	
40 05 19 00-2187	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,516.66	491.37
		<i>For Class 52 Rating, Deduct</i>		-304.94	
		<i>For Class 54 Rating, Add</i>		424.76	
		<i>For Class 55 Rating, Add</i>		636.06	
		<i>For Class 56 Rating, Add</i>		844.59	
40 05 19 00-2188	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,731.07	495.57
		<i>For Class 52 Rating, Deduct</i>		-327.82	
		<i>For Class 54 Rating, Add</i>		456.04	
		<i>For Class 55 Rating, Add</i>		682.61	
		<i>For Class 56 Rating, Add</i>		906.19	
40 05 19 00-2189	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,945.48	499.77
		<i>For Class 52 Rating, Deduct</i>		-350.77	
		<i>For Class 54 Rating, Add</i>		487.33	
		<i>For Class 55 Rating, Add</i>		729.16	
		<i>For Class 56 Rating, Add</i>		967.80	
40 05 19 00-2190	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,159.91	503.96
		<i>For Class 52 Rating, Deduct</i>		-373.60	
		<i>For Class 54 Rating, Add</i>		518.61	
		<i>For Class 55 Rating, Add</i>		775.71	
		<i>For Class 56 Rating, Add</i>		1,029.40	
40 05 19 00-2191	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,374.32	508.17
		<i>For Class 52 Rating, Deduct</i>		-396.48	
		<i>For Class 54 Rating, Add</i>		549.89	
		<i>For Class 55 Rating, Add</i>		822.25	
		<i>For Class 56 Rating, Add</i>		1,091.01	
40 05 19 00-2192	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,588.73	512.36
		<i>For Class 52 Rating, Deduct</i>		-419.37	
		<i>For Class 54 Rating, Add</i>		581.18	
		<i>For Class 55 Rating, Add</i>		868.80	
		<i>For Class 56 Rating, Add</i>		1,152.61	
40 05 19 00-2193	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,803.15	516.57
		<i>For Class 52 Rating, Deduct</i>		-442.25	
		<i>For Class 54 Rating, Add</i>		612.46	
		<i>For Class 55 Rating, Add</i>		915.35	
		<i>For Class 56 Rating, Add</i>		1,214.22	
40 05 19 00-2194	EA	10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,017.57	520.76
		<i>For Class 52 Rating, Deduct</i>		-465.14	
		<i>For Class 54 Rating, Add</i>		643.75	
		<i>For Class 55 Rating, Add</i>		961.90	
		<i>For Class 56 Rating, Add</i>		1,275.82	
40 05 19 00-2195	EA	10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,231.98	524.97
		<i>For Class 52 Rating, Deduct</i>		-488.02	
		<i>For Class 54 Rating, Add</i>		675.03	
		<i>For Class 55 Rating, Add</i>		1,008.45	
		<i>For Class 56 Rating, Add</i>		1,337.43	
40 05 19 00-2196	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,446.40	529.17
		<i>For Class 52 Rating, Deduct</i>		-510.91	
		<i>For Class 54 Rating, Add</i>		706.32	
		<i>For Class 55 Rating, Add</i>		1,054.99	
		<i>For Class 56 Rating, Add</i>		1,399.03	
40 05 19 00-2197	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,660.81	533.36
		<i>For Class 52 Rating, Deduct</i>		-533.79	
		<i>For Class 54 Rating, Add</i>		737.60	
		<i>For Class 55 Rating, Add</i>		1,101.54	
		<i>For Class 56 Rating, Add</i>		1,460.63	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2198 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,875.23	537.57
<i>For Class 52 Rating, Deduct</i>	-556.68	
<i>For Class 54 Rating, Add</i>	768.88	
<i>For Class 55 Rating, Add</i>	1,148.09	
<i>For Class 56 Rating, Add</i>	1,522.24	
40 05 19 00-2199 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,089.65	541.76
<i>For Class 52 Rating, Deduct</i>	-579.57	
<i>For Class 54 Rating, Add</i>	800.17	
<i>For Class 55 Rating, Add</i>	1,194.64	
<i>For Class 56 Rating, Add</i>	1,583.84	
40 05 19 00-2200 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,304.06	545.97
<i>For Class 52 Rating, Deduct</i>	-602.45	
<i>For Class 54 Rating, Add</i>	831.45	
<i>For Class 55 Rating, Add</i>	1,241.19	
<i>For Class 56 Rating, Add</i>	1,645.45	
40 05 19 00-2201 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,518.47	550.16
<i>For Class 52 Rating, Deduct</i>	-625.34	
<i>For Class 54 Rating, Add</i>	862.74	
<i>For Class 55 Rating, Add</i>	1,287.74	
<i>For Class 56 Rating, Add</i>	1,707.05	
40 05 19 00-2202 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,732.90	554.37
<i>For Class 52 Rating, Deduct</i>	-648.22	
<i>For Class 54 Rating, Add</i>	894.02	
<i>For Class 55 Rating, Add</i>	1,334.29	
<i>For Class 56 Rating, Add</i>	1,768.66	
40 05 19 00-2203 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,947.31	558.56
<i>For Class 52 Rating, Deduct</i>	-671.11	
<i>For Class 54 Rating, Add</i>	925.31	
<i>For Class 55 Rating, Add</i>	1,380.83	
<i>For Class 56 Rating, Add</i>	1,830.26	
40 05 19 00-2204 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,161.73	562.77
<i>For Class 52 Rating, Deduct</i>	-694.00	
<i>For Class 54 Rating, Add</i>	956.59	
<i>For Class 55 Rating, Add</i>	1,427.38	
<i>For Class 56 Rating, Add</i>	1,891.87	
40 05 19 00-2205 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,376.14	566.96
<i>For Class 52 Rating, Deduct</i>	-716.88	
<i>For Class 54 Rating, Add</i>	987.87	
<i>For Class 55 Rating, Add</i>	1,473.93	
<i>For Class 56 Rating, Add</i>	1,953.47	
40 05 19 00-2206 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,590.56	571.16
<i>For Class 52 Rating, Deduct</i>	-739.77	
<i>For Class 54 Rating, Add</i>	1,019.16	
<i>For Class 55 Rating, Add</i>	1,520.48	
<i>For Class 56 Rating, Add</i>	2,015.08	
40 05 19 00-2207 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,804.98	575.37
<i>For Class 52 Rating, Deduct</i>	-762.65	
<i>For Class 54 Rating, Add</i>	1,050.44	
<i>For Class 55 Rating, Add</i>	1,567.03	
<i>For Class 56 Rating, Add</i>	2,076.68	
40 05 19 00-2208 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,019.39	579.56
<i>For Class 52 Rating, Deduct</i>	-785.54	
<i>For Class 54 Rating, Add</i>	1,081.73	
<i>For Class 55 Rating, Add</i>	1,613.58	
<i>For Class 56 Rating, Add</i>	2,138.28	
40 05 19 00-2209 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,233.80	583.77
<i>For Class 52 Rating, Deduct</i>	-808.42	
<i>For Class 54 Rating, Add</i>	1,113.01	
<i>For Class 55 Rating, Add</i>	1,660.12	
<i>For Class 56 Rating, Add</i>	2,199.89	
40 05 19 00-2210 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,448.23	587.96
<i>For Class 52 Rating, Deduct</i>	-831.31	
<i>For Class 54 Rating, Add</i>	1,144.30	
<i>For Class 55 Rating, Add</i>	1,706.67	
<i>For Class 56 Rating, Add</i>	2,261.50	
40 05 19 00-2211 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,662.64	592.17
<i>For Class 52 Rating, Deduct</i>	-854.20	
<i>For Class 54 Rating, Add</i>	1,175.58	
<i>For Class 55 Rating, Add</i>	1,753.22	
<i>For Class 56 Rating, Add</i>	2,323.10	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2212	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,877.05	596.36
		<i>For Class 52 Rating, Deduct</i>		-877.08	
		<i>For Class 54 Rating, Add</i>		1,206.86	
		<i>For Class 55 Rating, Add</i>		1,799.77	
		<i>For Class 56 Rating, Add</i>		2,384.70	
40 05 19 00-2213	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,091.47	600.56
		<i>For Class 52 Rating, Deduct</i>		-899.97	
		<i>For Class 54 Rating, Add</i>		1,238.15	
		<i>For Class 55 Rating, Add</i>		1,846.32	
		<i>For Class 56 Rating, Add</i>		2,446.31	
40 05 19 00-2214	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,305.89	604.76
		<i>For Class 52 Rating, Deduct</i>		-922.85	
		<i>For Class 54 Rating, Add</i>		1,269.43	
		<i>For Class 55 Rating, Add</i>		1,892.87	
		<i>For Class 56 Rating, Add</i>		2,507.91	
40 05 19 00-2215	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,520.30	608.96
		<i>For Class 52 Rating, Deduct</i>		-945.74	
		<i>For Class 54 Rating, Add</i>		1,300.72	
		<i>For Class 55 Rating, Add</i>		1,939.42	
		<i>For Class 56 Rating, Add</i>		2,569.52	
40 05 19 00-2216	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,734.72	613.16
		<i>For Class 52 Rating, Deduct</i>		-968.62	
		<i>For Class 54 Rating, Add</i>		1,332.00	
		<i>For Class 55 Rating, Add</i>		1,985.96	
		<i>For Class 56 Rating, Add</i>		2,631.12	
40 05 19 00-2217	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,949.12	617.36
		<i>For Class 52 Rating, Deduct</i>		-991.51	
		<i>For Class 54 Rating, Add</i>		1,363.28	
		<i>For Class 55 Rating, Add</i>		2,032.51	
		<i>For Class 56 Rating, Add</i>		2,692.72	
40 05 19 00-2218	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,163.54	621.57
		<i>For Class 52 Rating, Deduct</i>		-1,014.40	
		<i>For Class 54 Rating, Add</i>		1,394.57	
		<i>For Class 55 Rating, Add</i>		2,079.06	
		<i>For Class 56 Rating, Add</i>		2,754.33	
40 05 19 00-2219	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,377.96	625.76
		<i>For Class 52 Rating, Deduct</i>		-1,037.28	
		<i>For Class 54 Rating, Add</i>		1,425.85	
		<i>For Class 55 Rating, Add</i>		2,125.61	
		<i>For Class 56 Rating, Add</i>		2,815.94	
40 05 19 00-2220	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,592.37	629.96
		<i>For Class 52 Rating, Deduct</i>		-1,060.17	
		<i>For Class 54 Rating, Add</i>		1,457.14	
		<i>For Class 55 Rating, Add</i>		2,172.16	
		<i>For Class 56 Rating, Add</i>		2,877.54	
40 05 19 00-2221		12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>			
40 05 19 00-2222	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,196.31	587.96
		<i>For Class 52 Rating, Deduct</i>		-253.60	
		<i>For Class 54 Rating, Add</i>		356.51	
		<i>For Class 55 Rating, Add</i>		535.50	
		<i>For Class 56 Rating, Add</i>		712.18	
40 05 19 00-2223	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,461.33	592.17
		<i>For Class 52 Rating, Deduct</i>		-282.05	
		<i>For Class 54 Rating, Add</i>		395.38	
		<i>For Class 55 Rating, Add</i>		593.33	
		<i>For Class 56 Rating, Add</i>		788.71	
40 05 19 00-2224	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,726.35	596.36
		<i>For Class 52 Rating, Deduct</i>		-310.50	
		<i>For Class 54 Rating, Add</i>		434.26	
		<i>For Class 55 Rating, Add</i>		651.16	
		<i>For Class 56 Rating, Add</i>		865.25	
40 05 19 00-2225	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,991.38	600.56
		<i>For Class 52 Rating, Deduct</i>		-338.96	
		<i>For Class 54 Rating, Add</i>		473.13	
		<i>For Class 55 Rating, Add</i>		709.00	
		<i>For Class 56 Rating, Add</i>		941.78	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2226 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,256.40	604.76
For Class 52 Rating, Deduct	-367.41	
For Class 54 Rating, Add	512.01	
For Class 55 Rating, Add	766.83	
For Class 56 Rating, Add	1,018.31	
40 05 19 00-2227 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,521.42	608.96
For Class 52 Rating, Deduct	-395.86	
For Class 54 Rating, Add	550.88	
For Class 55 Rating, Add	824.67	
For Class 56 Rating, Add	1,094.85	
40 05 19 00-2228 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,786.45	613.16
For Class 52 Rating, Deduct	-424.32	
For Class 54 Rating, Add	589.76	
For Class 55 Rating, Add	882.50	
For Class 56 Rating, Add	1,171.38	
40 05 19 00-2229 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,051.46	617.36
For Class 52 Rating, Deduct	-452.77	
For Class 54 Rating, Add	628.64	
For Class 55 Rating, Add	940.33	
For Class 56 Rating, Add	1,247.91	
40 05 19 00-2230 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,316.48	621.57
For Class 52 Rating, Deduct	-481.22	
For Class 54 Rating, Add	667.51	
For Class 55 Rating, Add	998.17	
For Class 56 Rating, Add	1,324.45	
40 05 19 00-2231 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,581.50	625.76
For Class 52 Rating, Deduct	-509.67	
For Class 54 Rating, Add	706.38	
For Class 55 Rating, Add	1,056.00	
For Class 56 Rating, Add	1,400.98	
40 05 19 00-2232 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,846.52	629.96
For Class 52 Rating, Deduct	-538.12	
For Class 54 Rating, Add	745.26	
For Class 55 Rating, Add	1,113.83	
For Class 56 Rating, Add	1,477.51	
40 05 19 00-2233 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,111.54	634.16
For Class 52 Rating, Deduct	-566.58	
For Class 54 Rating, Add	784.14	
For Class 55 Rating, Add	1,171.67	
For Class 56 Rating, Add	1,554.05	
40 05 19 00-2234 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,376.57	638.36
For Class 52 Rating, Deduct	-595.03	
For Class 54 Rating, Add	823.01	
For Class 55 Rating, Add	1,229.50	
For Class 56 Rating, Add	1,630.58	
40 05 19 00-2235 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,641.59	642.56
For Class 52 Rating, Deduct	-623.48	
For Class 54 Rating, Add	861.89	
For Class 55 Rating, Add	1,287.33	
For Class 56 Rating, Add	1,707.11	
40 05 19 00-2236 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,906.61	646.76
For Class 52 Rating, Deduct	-651.93	
For Class 54 Rating, Add	900.76	
For Class 55 Rating, Add	1,345.17	
For Class 56 Rating, Add	1,783.65	
40 05 19 00-2237 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,171.64	650.96
For Class 52 Rating, Deduct	-680.39	
For Class 54 Rating, Add	939.64	
For Class 55 Rating, Add	1,403.00	
For Class 56 Rating, Add	1,860.18	
40 05 19 00-2238 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,436.66	655.16
For Class 52 Rating, Deduct	-708.84	
For Class 54 Rating, Add	978.51	
For Class 55 Rating, Add	1,460.84	
For Class 56 Rating, Add	1,936.72	
40 05 19 00-2239 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,701.68	659.35
For Class 52 Rating, Deduct	-737.29	
For Class 54 Rating, Add	1,017.39	
For Class 55 Rating, Add	1,518.67	
For Class 56 Rating, Add	2,013.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2240	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,966.71	663.56
		<i>For Class 52 Rating, Deduct</i>		-765.75	
		<i>For Class 54 Rating, Add</i>		1,056.26	
		<i>For Class 55 Rating, Add</i>		1,576.50	
		<i>For Class 56 Rating, Add</i>		2,089.78	
40 05 19 00-2241	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,231.73	667.76
		<i>For Class 52 Rating, Deduct</i>		-794.20	
		<i>For Class 54 Rating, Add</i>		1,095.14	
		<i>For Class 55 Rating, Add</i>		1,634.34	
		<i>For Class 56 Rating, Add</i>		2,166.32	
40 05 19 00-2242	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,496.76	671.96
		<i>For Class 52 Rating, Deduct</i>		-822.65	
		<i>For Class 54 Rating, Add</i>		1,134.01	
		<i>For Class 55 Rating, Add</i>		1,692.17	
		<i>For Class 56 Rating, Add</i>		2,242.85	
40 05 19 00-2243	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,761.78	676.16
		<i>For Class 52 Rating, Deduct</i>		-851.10	
		<i>For Class 54 Rating, Add</i>		1,172.89	
		<i>For Class 55 Rating, Add</i>		1,750.01	
		<i>For Class 56 Rating, Add</i>		2,319.38	
40 05 19 00-2244	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,026.80	680.36
		<i>For Class 52 Rating, Deduct</i>		-879.56	
		<i>For Class 54 Rating, Add</i>		1,211.76	
		<i>For Class 55 Rating, Add</i>		1,807.84	
		<i>For Class 56 Rating, Add</i>		2,395.92	
40 05 19 00-2245	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,291.83	684.56
		<i>For Class 52 Rating, Deduct</i>		-908.01	
		<i>For Class 54 Rating, Add</i>		1,250.64	
		<i>For Class 55 Rating, Add</i>		1,865.67	
		<i>For Class 56 Rating, Add</i>		2,472.45	
40 05 19 00-2246	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,554.04	688.75
		<i>For Class 52 Rating, Deduct</i>		-936.15	
		<i>For Class 54 Rating, Add</i>		1,289.09	
		<i>For Class 55 Rating, Add</i>		1,922.88	
		<i>For Class 56 Rating, Add</i>		2,548.16	
40 05 19 00-2247	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,821.87	692.96
		<i>For Class 52 Rating, Deduct</i>		-964.91	
		<i>For Class 54 Rating, Add</i>		1,328.39	
		<i>For Class 55 Rating, Add</i>		1,981.34	
		<i>For Class 56 Rating, Add</i>		2,625.52	
40 05 19 00-2248	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,086.90	697.15
		<i>For Class 52 Rating, Deduct</i>		-993.37	
		<i>For Class 54 Rating, Add</i>		1,367.27	
		<i>For Class 55 Rating, Add</i>		2,039.18	
		<i>For Class 56 Rating, Add</i>		2,702.05	
40 05 19 00-2249	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,351.92	701.36
		<i>For Class 52 Rating, Deduct</i>		-1,021.82	
		<i>For Class 54 Rating, Add</i>		1,406.14	
		<i>For Class 55 Rating, Add</i>		2,097.01	
		<i>For Class 56 Rating, Add</i>		2,778.59	
40 05 19 00-2250	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,616.94	705.55
		<i>For Class 52 Rating, Deduct</i>		-1,050.27	
		<i>For Class 54 Rating, Add</i>		1,445.02	
		<i>For Class 55 Rating, Add</i>		2,154.84	
		<i>For Class 56 Rating, Add</i>		2,855.12	
40 05 19 00-2251	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,881.97	709.76
		<i>For Class 52 Rating, Deduct</i>		-1,078.72	
		<i>For Class 54 Rating, Add</i>		1,483.89	
		<i>For Class 55 Rating, Add</i>		2,212.68	
		<i>For Class 56 Rating, Add</i>		2,931.66	
40 05 19 00-2252	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,146.99	713.96
		<i>For Class 52 Rating, Deduct</i>		-1,107.18	
		<i>For Class 54 Rating, Add</i>		1,522.77	
		<i>For Class 55 Rating, Add</i>		2,270.51	
		<i>For Class 56 Rating, Add</i>		3,008.19	
40 05 19 00-2253	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,412.01	718.15
		<i>For Class 52 Rating, Deduct</i>		-1,135.63	
		<i>For Class 54 Rating, Add</i>		1,561.64	
		<i>For Class 55 Rating, Add</i>		2,328.34	
		<i>For Class 56 Rating, Add</i>		3,084.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2254 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,677.04	722.36
<i>For Class 52 Rating, Deduct</i>	-1,164.08	
<i>For Class 54 Rating, Add</i>	1,600.52	
<i>For Class 55 Rating, Add</i>	2,386.18	
<i>For Class 56 Rating, Add</i>	3,161.26	
40 05 19 00-2255 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,942.06	726.55
<i>For Class 52 Rating, Deduct</i>	-1,192.53	
<i>For Class 54 Rating, Add</i>	1,639.39	
<i>For Class 55 Rating, Add</i>	2,444.01	
<i>For Class 56 Rating, Add</i>	3,237.79	
40 05 19 00-2256 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,207.08	730.76
<i>For Class 52 Rating, Deduct</i>	-1,220.99	
<i>For Class 54 Rating, Add</i>	1,678.27	
<i>For Class 55 Rating, Add</i>	2,501.85	
<i>For Class 56 Rating, Add</i>	3,314.32	
40 05 19 00-2257 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,472.11	734.95
<i>For Class 52 Rating, Deduct</i>	-1,249.44	
<i>For Class 54 Rating, Add</i>	1,717.14	
<i>For Class 55 Rating, Add</i>	2,559.68	
<i>For Class 56 Rating, Add</i>	3,390.86	
40 05 19 00-2258 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,737.13	739.16
<i>For Class 52 Rating, Deduct</i>	-1,277.89	
<i>For Class 54 Rating, Add</i>	1,756.02	
<i>For Class 55 Rating, Add</i>	2,617.51	
<i>For Class 56 Rating, Add</i>	3,467.39	
40 05 19 00-2259 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,002.15	743.35
<i>For Class 52 Rating, Deduct</i>	-1,306.34	
<i>For Class 54 Rating, Add</i>	1,794.89	
<i>For Class 55 Rating, Add</i>	2,675.35	
<i>For Class 56 Rating, Add</i>	3,543.93	
40 05 19 00-2260 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,267.18	747.55
<i>For Class 52 Rating, Deduct</i>	-1,334.80	
<i>For Class 54 Rating, Add</i>	1,833.77	
<i>For Class 55 Rating, Add</i>	2,733.18	
<i>For Class 56 Rating, Add</i>	3,620.46	
40 05 19 00-2261 14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>		
40 05 19 00-2262 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,276.96	705.55
<i>For Class 52 Rating, Deduct</i>	-352.87	
<i>For Class 54 Rating, Add</i>	494.02	
<i>For Class 55 Rating, Add</i>	741.03	
<i>For Class 56 Rating, Add</i>	984.83	
40 05 19 00-2263 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,598.22	709.76
<i>For Class 52 Rating, Deduct</i>	-387.51	
<i>For Class 54 Rating, Add</i>	541.33	
<i>For Class 55 Rating, Add</i>	811.40	
<i>For Class 56 Rating, Add</i>	1,077.95	
40 05 19 00-2264 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,919.47	713.96
<i>For Class 52 Rating, Deduct</i>	-422.15	
<i>For Class 54 Rating, Add</i>	588.64	
<i>For Class 55 Rating, Add</i>	881.77	
<i>For Class 56 Rating, Add</i>	1,171.07	
40 05 19 00-2265 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,240.73	718.15
<i>For Class 52 Rating, Deduct</i>	-456.79	
<i>For Class 54 Rating, Add</i>	635.95	
<i>For Class 55 Rating, Add</i>	952.15	
<i>For Class 56 Rating, Add</i>	1,264.19	
40 05 19 00-2266 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,561.99	722.36
<i>For Class 52 Rating, Deduct</i>	-491.43	
<i>For Class 54 Rating, Add</i>	683.26	
<i>For Class 55 Rating, Add</i>	1,022.52	
<i>For Class 56 Rating, Add</i>	1,357.32	
40 05 19 00-2267 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,883.24	726.55
<i>For Class 52 Rating, Deduct</i>	-526.06	
<i>For Class 54 Rating, Add</i>	730.57	
<i>For Class 55 Rating, Add</i>	1,092.90	
<i>For Class 56 Rating, Add</i>	1,450.44	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2268	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,204.49		730.76
		<i>For Class 52 Rating, Deduct</i>	-560.70		
		<i>For Class 54 Rating, Add</i>	777.88		
		<i>For Class 55 Rating, Add</i>	1,163.27		
		<i>For Class 56 Rating, Add</i>	1,543.56		
40 05 19 00-2269	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,525.75		734.95
		<i>For Class 52 Rating, Deduct</i>	-595.34		
		<i>For Class 54 Rating, Add</i>	825.19		
		<i>For Class 55 Rating, Add</i>	1,233.64		
		<i>For Class 56 Rating, Add</i>	1,636.68		
40 05 19 00-2270	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,847.00		739.16
		<i>For Class 52 Rating, Deduct</i>	-629.98		
		<i>For Class 54 Rating, Add</i>	872.50		
		<i>For Class 55 Rating, Add</i>	1,304.01		
		<i>For Class 56 Rating, Add</i>	1,729.80		
40 05 19 00-2271	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,168.25		743.35
		<i>For Class 52 Rating, Deduct</i>	-664.62		
		<i>For Class 54 Rating, Add</i>	919.81		
		<i>For Class 55 Rating, Add</i>	1,374.39		
		<i>For Class 56 Rating, Add</i>	1,822.92		
40 05 19 00-2272	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,489.51		747.55
		<i>For Class 52 Rating, Deduct</i>	-699.25		
		<i>For Class 54 Rating, Add</i>	967.12		
		<i>For Class 55 Rating, Add</i>	1,444.76		
		<i>For Class 56 Rating, Add</i>	1,916.05		
40 05 19 00-2273	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,810.76		751.75
		<i>For Class 52 Rating, Deduct</i>	-733.89		
		<i>For Class 54 Rating, Add</i>	1,014.43		
		<i>For Class 55 Rating, Add</i>	1,515.13		
		<i>For Class 56 Rating, Add</i>	2,009.17		
40 05 19 00-2274	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,132.01		755.95
		<i>For Class 52 Rating, Deduct</i>	-768.53		
		<i>For Class 54 Rating, Add</i>	1,061.74		
		<i>For Class 55 Rating, Add</i>	1,585.51		
		<i>For Class 56 Rating, Add</i>	2,102.29		
40 05 19 00-2275	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,453.27		760.16
		<i>For Class 52 Rating, Deduct</i>	-803.17		
		<i>For Class 54 Rating, Add</i>	1,109.05		
		<i>For Class 55 Rating, Add</i>	1,655.88		
		<i>For Class 56 Rating, Add</i>	2,195.41		
40 05 19 00-2276	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,774.52		764.35
		<i>For Class 52 Rating, Deduct</i>	-837.81		
		<i>For Class 54 Rating, Add</i>	1,156.36		
		<i>For Class 55 Rating, Add</i>	1,726.25		
		<i>For Class 56 Rating, Add</i>	2,288.53		
40 05 19 00-2277	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,095.78		768.56
		<i>For Class 52 Rating, Deduct</i>	-872.44		
		<i>For Class 54 Rating, Add</i>	1,203.67		
		<i>For Class 55 Rating, Add</i>	1,796.63		
		<i>For Class 56 Rating, Add</i>	2,381.65		
40 05 19 00-2278	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,417.03		772.75
		<i>For Class 52 Rating, Deduct</i>	-907.08		
		<i>For Class 54 Rating, Add</i>	1,250.98		
		<i>For Class 55 Rating, Add</i>	1,867.00		
		<i>For Class 56 Rating, Add</i>	2,474.78		
40 05 19 00-2279	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,738.28		776.95
		<i>For Class 52 Rating, Deduct</i>	-941.72		
		<i>For Class 54 Rating, Add</i>	1,298.29		
		<i>For Class 55 Rating, Add</i>	1,937.37		
		<i>For Class 56 Rating, Add</i>	2,567.90		
40 05 19 00-2280	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,059.54		781.15
		<i>For Class 52 Rating, Deduct</i>	-976.36		
		<i>For Class 54 Rating, Add</i>	1,345.60		
		<i>For Class 55 Rating, Add</i>	2,007.75		
		<i>For Class 56 Rating, Add</i>	2,661.02		
40 05 19 00-2281	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,380.79		785.35
		<i>For Class 52 Rating, Deduct</i>	-1,010.99		
		<i>For Class 54 Rating, Add</i>	1,392.91		
		<i>For Class 55 Rating, Add</i>	2,078.12		
		<i>For Class 56 Rating, Add</i>	2,754.14		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2282 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,702.04	789.55
<i>For Class 52 Rating, Deduct</i>	-1,045.63	
<i>For Class 54 Rating, Add</i>	1,440.22	
<i>For Class 55 Rating, Add</i>	2,148.49	
<i>For Class 56 Rating, Add</i>	2,847.26	
40 05 19 00-2283 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,023.29	793.75
<i>For Class 52 Rating, Deduct</i>	-1,080.27	
<i>For Class 54 Rating, Add</i>	1,487.53	
<i>For Class 55 Rating, Add</i>	2,218.87	
<i>For Class 56 Rating, Add</i>	2,940.38	
40 05 19 00-2284 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,344.54	797.95
<i>For Class 52 Rating, Deduct</i>	-1,114.91	
<i>For Class 54 Rating, Add</i>	1,534.84	
<i>For Class 55 Rating, Add</i>	2,289.24	
<i>For Class 56 Rating, Add</i>	3,033.51	
40 05 19 00-2285 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,665.79	802.15
<i>For Class 52 Rating, Deduct</i>	-1,149.55	
<i>For Class 54 Rating, Add</i>	1,582.15	
<i>For Class 55 Rating, Add</i>	2,359.61	
<i>For Class 56 Rating, Add</i>	3,126.63	
40 05 19 00-2286 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,987.05	806.34
<i>For Class 52 Rating, Deduct</i>	-1,184.18	
<i>For Class 54 Rating, Add</i>	1,629.46	
<i>For Class 55 Rating, Add</i>	2,429.99	
<i>For Class 56 Rating, Add</i>	3,219.75	
40 05 19 00-2287 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,308.30	810.55
<i>For Class 52 Rating, Deduct</i>	-1,218.82	
<i>For Class 54 Rating, Add</i>	1,676.77	
<i>For Class 55 Rating, Add</i>	2,500.36	
<i>For Class 56 Rating, Add</i>	3,312.87	
40 05 19 00-2288 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,629.55	814.75
<i>For Class 52 Rating, Deduct</i>	-1,253.46	
<i>For Class 54 Rating, Add</i>	1,724.08	
<i>For Class 55 Rating, Add</i>	2,570.73	
<i>For Class 56 Rating, Add</i>	3,405.99	
40 05 19 00-2289 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,950.81	818.95
<i>For Class 52 Rating, Deduct</i>	-1,288.10	
<i>For Class 54 Rating, Add</i>	1,771.39	
<i>For Class 55 Rating, Add</i>	2,641.11	
<i>For Class 56 Rating, Add</i>	3,499.11	
40 05 19 00-2290 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,272.06	823.15
<i>For Class 52 Rating, Deduct</i>	-1,322.74	
<i>For Class 54 Rating, Add</i>	1,818.70	
<i>For Class 55 Rating, Add</i>	2,711.48	
<i>For Class 56 Rating, Add</i>	3,592.24	
40 05 19 00-2291 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,593.31	827.35
<i>For Class 52 Rating, Deduct</i>	-1,357.37	
<i>For Class 54 Rating, Add</i>	1,866.01	
<i>For Class 55 Rating, Add</i>	2,781.85	
<i>For Class 56 Rating, Add</i>	3,685.36	
40 05 19 00-2292 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,914.57	831.55
<i>For Class 52 Rating, Deduct</i>	-1,392.01	
<i>For Class 54 Rating, Add</i>	1,913.32	
<i>For Class 55 Rating, Add</i>	2,852.23	
<i>For Class 56 Rating, Add</i>	3,778.48	
40 05 19 00-2293 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,235.82	835.74
<i>For Class 52 Rating, Deduct</i>	-1,426.65	
<i>For Class 54 Rating, Add</i>	1,960.63	
<i>For Class 55 Rating, Add</i>	2,922.60	
<i>For Class 56 Rating, Add</i>	3,871.60	
40 05 19 00-2294 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,557.07	839.95
<i>For Class 52 Rating, Deduct</i>	-1,461.29	
<i>For Class 54 Rating, Add</i>	2,007.94	
<i>For Class 55 Rating, Add</i>	2,992.97	
<i>For Class 56 Rating, Add</i>	3,964.72	
40 05 19 00-2295 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,878.33	844.14
<i>For Class 52 Rating, Deduct</i>	-1,495.93	
<i>For Class 54 Rating, Add</i>	2,055.25	
<i>For Class 55 Rating, Add</i>	3,063.34	
<i>For Class 56 Rating, Add</i>	4,057.84	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2296	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,199.58	848.35
		<i>For Class 52 Rating, Deduct</i>		-1,530.56	
		<i>For Class 54 Rating, Add</i>		2,102.56	
		<i>For Class 55 Rating, Add</i>		3,133.72	
		<i>For Class 56 Rating, Add</i>		4,150.97	
40 05 19 00-2297	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,520.83	852.54
		<i>For Class 52 Rating, Deduct</i>		-1,565.20	
		<i>For Class 54 Rating, Add</i>		2,149.87	
		<i>For Class 55 Rating, Add</i>		3,204.09	
		<i>For Class 56 Rating, Add</i>		4,244.09	
40 05 19 00-2298	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,842.09	856.75
		<i>For Class 52 Rating, Deduct</i>		-1,599.84	
		<i>For Class 54 Rating, Add</i>		2,197.18	
		<i>For Class 55 Rating, Add</i>		3,274.46	
		<i>For Class 56 Rating, Add</i>		4,337.21	
40 05 19 00-2299	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,163.34	860.95
		<i>For Class 52 Rating, Deduct</i>		-1,634.48	
		<i>For Class 54 Rating, Add</i>		2,244.49	
		<i>For Class 55 Rating, Add</i>		3,344.84	
		<i>For Class 56 Rating, Add</i>		4,430.33	
40 05 19 00-2300		16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>			
40 05 19 00-2301	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,017.29	806.34
		<i>For Class 52 Rating, Deduct</i>		-417.51	
		<i>For Class 54 Rating, Add</i>		583.99	
		<i>For Class 55 Rating, Add</i>		875.73	
		<i>For Class 56 Rating, Add</i>		1,163.67	
40 05 19 00-2302	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,389.15	810.55
		<i>For Class 52 Rating, Deduct</i>		-457.72	
		<i>For Class 54 Rating, Add</i>		638.89	
		<i>For Class 55 Rating, Add</i>		957.39	
		<i>For Class 56 Rating, Add</i>		1,271.72	
40 05 19 00-2303	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,761.01	814.75
		<i>For Class 52 Rating, Deduct</i>		-497.92	
		<i>For Class 54 Rating, Add</i>		693.80	
		<i>For Class 55 Rating, Add</i>		1,039.05	
		<i>For Class 56 Rating, Add</i>		1,379.77	
40 05 19 00-2304	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,132.87	818.95
		<i>For Class 52 Rating, Deduct</i>		-538.12	
		<i>For Class 54 Rating, Add</i>		748.70	
		<i>For Class 55 Rating, Add</i>		1,120.70	
		<i>For Class 56 Rating, Add</i>		1,487.82	
40 05 19 00-2305	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,504.73	823.15
		<i>For Class 52 Rating, Deduct</i>		-578.33	
		<i>For Class 54 Rating, Add</i>		803.60	
		<i>For Class 55 Rating, Add</i>		1,202.36	
		<i>For Class 56 Rating, Add</i>		1,595.87	
40 05 19 00-2306	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,876.59	827.35
		<i>For Class 52 Rating, Deduct</i>		-618.53	
		<i>For Class 54 Rating, Add</i>		858.50	
		<i>For Class 55 Rating, Add</i>		1,284.02	
		<i>For Class 56 Rating, Add</i>		1,703.92	
40 05 19 00-2307	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,248.46	831.55
		<i>For Class 52 Rating, Deduct</i>		-658.74	
		<i>For Class 54 Rating, Add</i>		913.40	
		<i>For Class 55 Rating, Add</i>		1,365.68	
		<i>For Class 56 Rating, Add</i>		1,811.98	
40 05 19 00-2308	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,620.32	835.74
		<i>For Class 52 Rating, Deduct</i>		-698.94	
		<i>For Class 54 Rating, Add</i>		968.30	
		<i>For Class 55 Rating, Add</i>		1,447.34	
		<i>For Class 56 Rating, Add</i>		1,920.03	
40 05 19 00-2309	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,992.17	839.95
		<i>For Class 52 Rating, Deduct</i>		-739.15	
		<i>For Class 54 Rating, Add</i>		1,023.20	
		<i>For Class 55 Rating, Add</i>		1,529.00	
		<i>For Class 56 Rating, Add</i>		2,028.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2310 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,364.04	844.14
<i>For Class 52 Rating, Deduct</i>	-779.35	
<i>For Class 54 Rating, Add</i>	1,078.10	
<i>For Class 55 Rating, Add</i>	1,610.66	
<i>For Class 56 Rating, Add</i>	2,136.13	
40 05 19 00-2311 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,735.90	848.35
<i>For Class 52 Rating, Deduct</i>	-819.56	
<i>For Class 54 Rating, Add</i>	1,133.00	
<i>For Class 55 Rating, Add</i>	1,692.32	
<i>For Class 56 Rating, Add</i>	2,244.18	
40 05 19 00-2312 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,107.76	852.54
<i>For Class 52 Rating, Deduct</i>	-859.76	
<i>For Class 54 Rating, Add</i>	1,187.91	
<i>For Class 55 Rating, Add</i>	1,773.98	
<i>For Class 56 Rating, Add</i>	2,352.23	
40 05 19 00-2313 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,479.62	856.75
<i>For Class 52 Rating, Deduct</i>	-899.97	
<i>For Class 54 Rating, Add</i>	1,242.81	
<i>For Class 55 Rating, Add</i>	1,855.63	
<i>For Class 56 Rating, Add</i>	2,460.28	
40 05 19 00-2314 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,851.48	860.95
<i>For Class 52 Rating, Deduct</i>	-940.17	
<i>For Class 54 Rating, Add</i>	1,297.71	
<i>For Class 55 Rating, Add</i>	1,937.29	
<i>For Class 56 Rating, Add</i>	2,568.33	
40 05 19 00-2315 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,223.35	865.14
<i>For Class 52 Rating, Deduct</i>	-980.38	
<i>For Class 54 Rating, Add</i>	1,352.61	
<i>For Class 55 Rating, Add</i>	2,018.95	
<i>For Class 56 Rating, Add</i>	2,676.38	
40 05 19 00-2316 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,595.21	869.35
<i>For Class 52 Rating, Deduct</i>	-1,020.58	
<i>For Class 54 Rating, Add</i>	1,407.51	
<i>For Class 55 Rating, Add</i>	2,100.61	
<i>For Class 56 Rating, Add</i>	2,784.43	
40 05 19 00-2317 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,967.06	873.54
<i>For Class 52 Rating, Deduct</i>	-1,060.79	
<i>For Class 54 Rating, Add</i>	1,462.41	
<i>For Class 55 Rating, Add</i>	2,182.27	
<i>For Class 56 Rating, Add</i>	2,892.48	
40 05 19 00-2318 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,338.93	877.75
<i>For Class 52 Rating, Deduct</i>	-1,100.99	
<i>For Class 54 Rating, Add</i>	1,517.31	
<i>For Class 55 Rating, Add</i>	2,263.93	
<i>For Class 56 Rating, Add</i>	3,000.54	
40 05 19 00-2319 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,710.79	881.94
<i>For Class 52 Rating, Deduct</i>	-1,141.20	
<i>For Class 54 Rating, Add</i>	1,572.21	
<i>For Class 55 Rating, Add</i>	2,345.59	
<i>For Class 56 Rating, Add</i>	3,108.59	
40 05 19 00-2320 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,082.65	886.15
<i>For Class 52 Rating, Deduct</i>	-1,181.40	
<i>For Class 54 Rating, Add</i>	1,627.11	
<i>For Class 55 Rating, Add</i>	2,427.25	
<i>For Class 56 Rating, Add</i>	3,216.64	
40 05 19 00-2321 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,454.51	890.34
<i>For Class 52 Rating, Deduct</i>	-1,221.61	
<i>For Class 54 Rating, Add</i>	1,682.01	
<i>For Class 55 Rating, Add</i>	2,508.90	
<i>For Class 56 Rating, Add</i>	3,324.69	
40 05 19 00-2322 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,826.37	894.54
<i>For Class 52 Rating, Deduct</i>	-1,261.81	
<i>For Class 54 Rating, Add</i>	1,736.91	
<i>For Class 55 Rating, Add</i>	2,590.56	
<i>For Class 56 Rating, Add</i>	3,432.74	
40 05 19 00-2323 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,198.23	898.74
<i>For Class 52 Rating, Deduct</i>	-1,302.02	
<i>For Class 54 Rating, Add</i>	1,791.82	
<i>For Class 55 Rating, Add</i>	2,672.22	
<i>For Class 56 Rating, Add</i>	3,540.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2324	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,570.10	902.94
		<i>For Class 52 Rating, Deduct</i>		-1,342.22	
		<i>For Class 54 Rating, Add</i>		1,846.72	
		<i>For Class 55 Rating, Add</i>		2,753.88	
		<i>For Class 56 Rating, Add</i>		3,648.84	
40 05 19 00-2325	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,941.95	907.15
		<i>For Class 52 Rating, Deduct</i>		-1,362.42	
		<i>For Class 54 Rating, Add</i>		1,901.62	
		<i>For Class 55 Rating, Add</i>		2,835.54	
		<i>For Class 56 Rating, Add</i>		3,756.89	
40 05 19 00-2326	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,313.81	911.34
		<i>For Class 52 Rating, Deduct</i>		-1,422.63	
		<i>For Class 54 Rating, Add</i>		1,956.52	
		<i>For Class 55 Rating, Add</i>		2,917.20	
		<i>For Class 56 Rating, Add</i>		3,864.94	
40 05 19 00-2327	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,685.68	915.55
		<i>For Class 52 Rating, Deduct</i>		-1,462.83	
		<i>For Class 54 Rating, Add</i>		2,011.42	
		<i>For Class 55 Rating, Add</i>		2,998.86	
		<i>For Class 56 Rating, Add</i>		3,972.99	
40 05 19 00-2328	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,057.54	919.74
		<i>For Class 52 Rating, Deduct</i>		-1,503.04	
		<i>For Class 54 Rating, Add</i>		2,066.32	
		<i>For Class 55 Rating, Add</i>		3,080.51	
		<i>For Class 56 Rating, Add</i>		4,081.04	
40 05 19 00-2329	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,429.39	923.94
		<i>For Class 52 Rating, Deduct</i>		-1,543.24	
		<i>For Class 54 Rating, Add</i>		2,121.22	
		<i>For Class 55 Rating, Add</i>		3,162.17	
		<i>For Class 56 Rating, Add</i>		4,189.09	
40 05 19 00-2330	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,801.26	928.14
		<i>For Class 52 Rating, Deduct</i>		-1,583.45	
		<i>For Class 54 Rating, Add</i>		2,176.12	
		<i>For Class 55 Rating, Add</i>		3,243.83	
		<i>For Class 56 Rating, Add</i>		4,297.15	
40 05 19 00-2331	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,173.12	932.34
		<i>For Class 52 Rating, Deduct</i>		-1,623.65	
		<i>For Class 54 Rating, Add</i>		2,231.02	
		<i>For Class 55 Rating, Add</i>		3,325.49	
		<i>For Class 56 Rating, Add</i>		4,405.20	
40 05 19 00-2332	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,544.98	936.54
		<i>For Class 52 Rating, Deduct</i>		-1,663.86	
		<i>For Class 54 Rating, Add</i>		2,285.93	
		<i>For Class 55 Rating, Add</i>		3,407.15	
		<i>For Class 56 Rating, Add</i>		4,513.25	
40 05 19 00-2333	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,916.85	940.74
		<i>For Class 52 Rating, Deduct</i>		-1,704.06	
		<i>For Class 54 Rating, Add</i>		2,340.83	
		<i>For Class 55 Rating, Add</i>		3,488.81	
		<i>For Class 56 Rating, Add</i>		4,621.30	
40 05 19 00-2334	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,288.70	944.94
		<i>For Class 52 Rating, Deduct</i>		-1,744.27	
		<i>For Class 54 Rating, Add</i>		2,395.73	
		<i>For Class 55 Rating, Add</i>		3,570.47	
		<i>For Class 56 Rating, Add</i>		4,729.35	
40 05 19 00-2335	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,660.56	949.14
		<i>For Class 52 Rating, Deduct</i>		-1,784.47	
		<i>For Class 54 Rating, Add</i>		2,450.63	
		<i>For Class 55 Rating, Add</i>		3,652.12	
		<i>For Class 56 Rating, Add</i>		4,837.40	
40 05 19 00-2336	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,032.43	953.34
		<i>For Class 52 Rating, Deduct</i>		-1,824.68	
		<i>For Class 54 Rating, Add</i>		2,505.53	
		<i>For Class 55 Rating, Add</i>		3,733.78	
		<i>For Class 56 Rating, Add</i>		4,945.45	
40 05 19 00-2337	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,404.29	957.54
		<i>For Class 52 Rating, Deduct</i>		-1,864.88	
		<i>For Class 54 Rating, Add</i>		2,560.43	
		<i>For Class 55 Rating, Add</i>		3,815.44	
		<i>For Class 56 Rating, Add</i>		5,053.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2338 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,776.15	961.74
For Class 52 Rating, Deduct	-1,905.09	
For Class 54 Rating, Add	2,615.33	
For Class 55 Rating, Add	3,897.10	
For Class 56 Rating, Add	5,161.55	
40 05 19 00-2339 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
(40 05 19 00-2060)		
40 05 19 00-2340 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,847.32	908.82
For Class 52 Rating, Deduct	-491.74	
For Class 54 Rating, Add	687.07	
For Class 55 Rating, Add	1,029.93	
For Class 56 Rating, Add	1,368.32	
40 05 19 00-2341 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,275.40	913.03
For Class 52 Rating, Deduct	-538.12	
For Class 54 Rating, Add	750.41	
For Class 55 Rating, Add	1,124.13	
For Class 56 Rating, Add	1,492.95	
40 05 19 00-2342 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,703.50	917.22
For Class 52 Rating, Deduct	-584.51	
For Class 54 Rating, Add	813.74	
For Class 55 Rating, Add	1,218.32	
For Class 56 Rating, Add	1,617.99	
40 05 19 00-2343 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,131.59	921.43
For Class 52 Rating, Deduct	-630.91	
For Class 54 Rating, Add	877.08	
For Class 55 Rating, Add	1,312.52	
For Class 56 Rating, Add	1,742.23	
40 05 19 00-2344 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,559.69	925.62
For Class 52 Rating, Deduct	-677.30	
For Class 54 Rating, Add	940.41	
For Class 55 Rating, Add	1,406.72	
For Class 56 Rating, Add	1,866.87	
40 05 19 00-2345 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,987.78	929.82
For Class 52 Rating, Deduct	-723.69	
For Class 54 Rating, Add	1,003.75	
For Class 55 Rating, Add	1,500.92	
For Class 56 Rating, Add	1,991.51	
40 05 19 00-2346 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,415.86	934.02
For Class 52 Rating, Deduct	-770.07	
For Class 54 Rating, Add	1,067.08	
For Class 55 Rating, Add	1,595.12	
For Class 56 Rating, Add	2,116.15	
40 05 19 00-2347 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,843.96	938.22
For Class 52 Rating, Deduct	-816.47	
For Class 54 Rating, Add	1,130.42	
For Class 55 Rating, Add	1,689.31	
For Class 56 Rating, Add	2,240.79	
40 05 19 00-2348 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,272.05	942.42
For Class 52 Rating, Deduct	-862.86	
For Class 54 Rating, Add	1,193.76	
For Class 55 Rating, Add	1,783.51	
For Class 56 Rating, Add	2,365.43	
40 05 19 00-2349 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,700.14	946.62
For Class 52 Rating, Deduct	-909.25	
For Class 54 Rating, Add	1,257.09	
For Class 55 Rating, Add	1,877.71	
For Class 56 Rating, Add	2,490.07	
40 05 19 00-2350 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,128.24	950.82
For Class 52 Rating, Deduct	-955.64	
For Class 54 Rating, Add	1,320.43	
For Class 55 Rating, Add	1,971.91	
For Class 56 Rating, Add	2,614.71	
40 05 19 00-2351 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,556.32	955.02
For Class 52 Rating, Deduct	-1,002.03	
For Class 54 Rating, Add	1,383.76	
For Class 55 Rating, Add	2,066.11	
For Class 56 Rating, Add	2,739.34	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2352	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,984.41	959.22
		<i>For Class 52 Rating, Deduct</i>		-1,048.42	
		<i>For Class 54 Rating, Add</i>		1,447.10	
		<i>For Class 55 Rating, Add</i>		2,160.30	
		<i>For Class 56 Rating, Add</i>		2,863.98	
40 05 19 00-2353	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,412.51	963.42
		<i>For Class 52 Rating, Deduct</i>		-1,094.81	
		<i>For Class 54 Rating, Add</i>		1,510.43	
		<i>For Class 55 Rating, Add</i>		2,254.50	
		<i>For Class 56 Rating, Add</i>		2,988.62	
40 05 19 00-2354	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,840.60	967.62
		<i>For Class 52 Rating, Deduct</i>		-1,141.20	
		<i>For Class 54 Rating, Add</i>		1,573.77	
		<i>For Class 55 Rating, Add</i>		2,348.70	
		<i>For Class 56 Rating, Add</i>		3,113.26	
40 05 19 00-2355	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,268.69	971.82
		<i>For Class 52 Rating, Deduct</i>		-1,187.59	
		<i>For Class 54 Rating, Add</i>		1,637.11	
		<i>For Class 55 Rating, Add</i>		2,442.90	
		<i>For Class 56 Rating, Add</i>		3,237.90	
40 05 19 00-2356	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,696.78	976.02
		<i>For Class 52 Rating, Deduct</i>		-1,233.98	
		<i>For Class 54 Rating, Add</i>		1,700.44	
		<i>For Class 55 Rating, Add</i>		2,537.10	
		<i>For Class 56 Rating, Add</i>		3,362.54	
40 05 19 00-2357	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,124.87	980.22
		<i>For Class 52 Rating, Deduct</i>		-1,280.37	
		<i>For Class 54 Rating, Add</i>		1,763.78	
		<i>For Class 55 Rating, Add</i>		2,631.30	
		<i>For Class 56 Rating, Add</i>		3,487.18	
40 05 19 00-2358	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,552.96	984.42
		<i>For Class 52 Rating, Deduct</i>		-1,326.76	
		<i>For Class 54 Rating, Add</i>		1,827.11	
		<i>For Class 55 Rating, Add</i>		2,725.49	
		<i>For Class 56 Rating, Add</i>		3,611.81	
40 05 19 00-2359	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,981.06	988.61
		<i>For Class 52 Rating, Deduct</i>		-1,373.15	
		<i>For Class 54 Rating, Add</i>		1,890.45	
		<i>For Class 55 Rating, Add</i>		2,819.69	
		<i>For Class 56 Rating, Add</i>		3,736.45	
40 05 19 00-2360	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,409.15	992.82
		<i>For Class 52 Rating, Deduct</i>		-1,419.54	
		<i>For Class 54 Rating, Add</i>		1,953.78	
		<i>For Class 55 Rating, Add</i>		2,913.89	
		<i>For Class 56 Rating, Add</i>		3,861.09	
40 05 19 00-2361	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,837.23	997.01
		<i>For Class 52 Rating, Deduct</i>		-1,465.93	
		<i>For Class 54 Rating, Add</i>		2,017.12	
		<i>For Class 55 Rating, Add</i>		3,008.09	
		<i>For Class 56 Rating, Add</i>		3,985.73	
40 05 19 00-2362	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,265.33	1,001.22
		<i>For Class 52 Rating, Deduct</i>		-1,512.32	
		<i>For Class 54 Rating, Add</i>		2,080.45	
		<i>For Class 55 Rating, Add</i>		3,102.29	
		<i>For Class 56 Rating, Add</i>		4,110.37	
40 05 19 00-2363	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,693.42	1,005.41
		<i>For Class 52 Rating, Deduct</i>		-1,558.71	
		<i>For Class 54 Rating, Add</i>		2,143.79	
		<i>For Class 55 Rating, Add</i>		3,196.48	
		<i>For Class 56 Rating, Add</i>		4,235.01	
40 05 19 00-2364	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,121.51	1,009.62
		<i>For Class 52 Rating, Deduct</i>		-1,605.10	
		<i>For Class 54 Rating, Add</i>		2,207.13	
		<i>For Class 55 Rating, Add</i>		3,290.68	
		<i>For Class 56 Rating, Add</i>		4,359.65	
40 05 19 00-2365	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,549.61	1,013.82
		<i>For Class 52 Rating, Deduct</i>		-1,651.49	
		<i>For Class 54 Rating, Add</i>		2,270.46	
		<i>For Class 55 Rating, Add</i>		3,384.88	
		<i>For Class 56 Rating, Add</i>		4,484.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2366 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,977.69	1,018.01
<i>For Class 52 Rating, Deduct</i>	-1,697.88	
<i>For Class 54 Rating, Add</i>	2,333.80	
<i>For Class 55 Rating, Add</i>	3,479.08	
<i>For Class 56 Rating, Add</i>	4,608.92	
40 05 19 00-2367 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,405.78	1,022.22
<i>For Class 52 Rating, Deduct</i>	-1,744.27	
<i>For Class 54 Rating, Add</i>	2,397.13	
<i>For Class 55 Rating, Add</i>	3,573.28	
<i>For Class 56 Rating, Add</i>	4,733.56	
40 05 19 00-2368 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,833.88	1,026.41
<i>For Class 52 Rating, Deduct</i>	-1,790.66	
<i>For Class 54 Rating, Add</i>	2,460.47	
<i>For Class 55 Rating, Add</i>	3,667.47	
<i>For Class 56 Rating, Add</i>	4,858.20	
40 05 19 00-2369 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,261.97	1,030.62
<i>For Class 52 Rating, Deduct</i>	-1,837.05	
<i>For Class 54 Rating, Add</i>	2,523.80	
<i>For Class 55 Rating, Add</i>	3,761.67	
<i>For Class 56 Rating, Add</i>	4,982.84	
40 05 19 00-2370 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,690.07	1,034.81
<i>For Class 52 Rating, Deduct</i>	-1,883.44	
<i>For Class 54 Rating, Add</i>	2,587.14	
<i>For Class 55 Rating, Add</i>	3,855.87	
<i>For Class 56 Rating, Add</i>	5,107.48	
40 05 19 00-2371 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,118.14	1,039.02
<i>For Class 52 Rating, Deduct</i>	-1,929.83	
<i>For Class 54 Rating, Add</i>	2,650.47	
<i>For Class 55 Rating, Add</i>	3,950.07	
<i>For Class 56 Rating, Add</i>	5,232.12	
40 05 19 00-2372 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,546.23	1,043.21
<i>For Class 52 Rating, Deduct</i>	-1,976.22	
<i>For Class 54 Rating, Add</i>	2,713.81	
<i>For Class 55 Rating, Add</i>	4,044.27	
<i>For Class 56 Rating, Add</i>	5,356.76	
40 05 19 00-2373 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,974.33	1,047.41
<i>For Class 52 Rating, Deduct</i>	-2,022.61	
<i>For Class 54 Rating, Add</i>	2,777.14	
<i>For Class 55 Rating, Add</i>	4,138.46	
<i>For Class 56 Rating, Add</i>	5,481.40	
40 05 19 00-2374 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,402.42	1,051.61
<i>For Class 52 Rating, Deduct</i>	-2,069.00	
<i>For Class 54 Rating, Add</i>	2,840.48	
<i>For Class 55 Rating, Add</i>	4,232.66	
<i>For Class 56 Rating, Add</i>	5,606.04	
40 05 19 00-2375 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,830.51	1,055.81
<i>For Class 52 Rating, Deduct</i>	-2,115.39	
<i>For Class 54 Rating, Add</i>	2,903.82	
<i>For Class 55 Rating, Add</i>	4,326.86	
<i>For Class 56 Rating, Add</i>	5,730.68	
40 05 19 00-2376 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,258.60	1,060.02
<i>For Class 52 Rating, Deduct</i>	-2,161.78	
<i>For Class 54 Rating, Add</i>	2,967.15	
<i>For Class 55 Rating, Add</i>	4,421.06	
<i>For Class 56 Rating, Add</i>	5,855.31	
40 05 19 00-2377 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,686.69	1,064.21
<i>For Class 52 Rating, Deduct</i>	-2,208.17	
<i>For Class 54 Rating, Add</i>	3,030.49	
<i>For Class 55 Rating, Add</i>	4,515.26	
<i>For Class 56 Rating, Add</i>	5,979.95	
40 05 19 00-2378 20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-2060)</small>		
40 05 19 00-2379 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,843.32	1,037.33
<i>For Class 52 Rating, Deduct</i>	-579.88	
<i>For Class 54 Rating, Add</i>	809.60	
<i>For Class 55 Rating, Add</i>	1,213.29	
<i>For Class 56 Rating, Add</i>	1,611.70	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2380	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,330.45	1,041.53
		<i>For Class 52 Rating, Deduct</i>	-632.76	
		<i>For Class 54 Rating, Add</i>	881.79	
		<i>For Class 55 Rating, Add</i>	1,320.65	
		<i>For Class 56 Rating, Add</i>	1,753.76	
40 05 19 00-2381	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,817.58	1,045.74
		<i>For Class 52 Rating, Deduct</i>	-685.65	
		<i>For Class 54 Rating, Add</i>	953.98	
		<i>For Class 55 Rating, Add</i>	1,428.02	
		<i>For Class 56 Rating, Add</i>	1,895.82	
40 05 19 00-2382	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,304.72	1,049.93
		<i>For Class 52 Rating, Deduct</i>	-738.53	
		<i>For Class 54 Rating, Add</i>	1,026.18	
		<i>For Class 55 Rating, Add</i>	1,535.38	
		<i>For Class 56 Rating, Add</i>	2,037.87	
40 05 19 00-2383	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,791.85	1,054.14
		<i>For Class 52 Rating, Deduct</i>	-791.41	
		<i>For Class 54 Rating, Add</i>	1,098.37	
		<i>For Class 55 Rating, Add</i>	1,642.75	
		<i>For Class 56 Rating, Add</i>	2,179.93	
40 05 19 00-2384	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,278.98	1,058.33
		<i>For Class 52 Rating, Deduct</i>	-844.30	
		<i>For Class 54 Rating, Add</i>	1,170.56	
		<i>For Class 55 Rating, Add</i>	1,750.11	
		<i>For Class 56 Rating, Add</i>	2,321.98	
40 05 19 00-2385	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,766.12	1,062.54
		<i>For Class 52 Rating, Deduct</i>	-897.18	
		<i>For Class 54 Rating, Add</i>	1,242.75	
		<i>For Class 55 Rating, Add</i>	1,857.47	
		<i>For Class 56 Rating, Add</i>	2,464.04	
40 05 19 00-2386	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,253.25	1,066.73
		<i>For Class 52 Rating, Deduct</i>	-950.07	
		<i>For Class 54 Rating, Add</i>	1,314.94	
		<i>For Class 55 Rating, Add</i>	1,964.84	
		<i>For Class 56 Rating, Add</i>	2,606.10	
40 05 19 00-2387	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,740.39	1,070.93
		<i>For Class 52 Rating, Deduct</i>	-1,002.95	
		<i>For Class 54 Rating, Add</i>	1,387.14	
		<i>For Class 55 Rating, Add</i>	2,072.20	
		<i>For Class 56 Rating, Add</i>	2,748.15	
40 05 19 00-2388	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,227.52	1,075.13
		<i>For Class 52 Rating, Deduct</i>	-1,055.84	
		<i>For Class 54 Rating, Add</i>	1,459.33	
		<i>For Class 55 Rating, Add</i>	2,179.57	
		<i>For Class 56 Rating, Add</i>	2,890.21	
40 05 19 00-2389	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,714.65	1,079.33
		<i>For Class 52 Rating, Deduct</i>	-1,108.72	
		<i>For Class 54 Rating, Add</i>	1,531.52	
		<i>For Class 55 Rating, Add</i>	2,286.93	
		<i>For Class 56 Rating, Add</i>	3,032.27	
40 05 19 00-2390	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,201.79	1,083.53
		<i>For Class 52 Rating, Deduct</i>	-1,161.61	
		<i>For Class 54 Rating, Add</i>	1,603.71	
		<i>For Class 55 Rating, Add</i>	2,394.30	
		<i>For Class 56 Rating, Add</i>	3,174.32	
40 05 19 00-2391	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,688.92	1,087.73
		<i>For Class 52 Rating, Deduct</i>	-1,214.49	
		<i>For Class 54 Rating, Add</i>	1,675.90	
		<i>For Class 55 Rating, Add</i>	2,501.66	
		<i>For Class 56 Rating, Add</i>	3,316.38	
40 05 19 00-2392	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,176.05	1,091.94
		<i>For Class 52 Rating, Deduct</i>	-1,267.38	
		<i>For Class 54 Rating, Add</i>	1,748.09	
		<i>For Class 55 Rating, Add</i>	2,609.03	
		<i>For Class 56 Rating, Add</i>	3,458.43	
40 05 19 00-2393	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,663.19	1,096.13
		<i>For Class 52 Rating, Deduct</i>	-1,320.26	
		<i>For Class 54 Rating, Add</i>	1,820.29	
		<i>For Class 55 Rating, Add</i>	2,716.39	
		<i>For Class 56 Rating, Add</i>	3,600.49	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2394	EA			20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,150.32	1,100.33
				<i>For Class 52 Rating, Deduct</i>	-1,373.15	
				<i>For Class 54 Rating, Add</i>	1,892.48	
				<i>For Class 55 Rating, Add</i>	2,823.75	
				<i>For Class 56 Rating, Add</i>	3,742.55	
40 05 19 00-2395	EA			20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,637.45	1,104.53
				<i>For Class 52 Rating, Deduct</i>	-1,426.03	
				<i>For Class 54 Rating, Add</i>	1,964.67	
				<i>For Class 55 Rating, Add</i>	2,931.12	
				<i>For Class 56 Rating, Add</i>	3,884.60	
40 05 19 00-2396	EA			20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,124.59	1,108.73
				<i>For Class 52 Rating, Deduct</i>	-1,478.92	
				<i>For Class 54 Rating, Add</i>	2,036.86	
				<i>For Class 55 Rating, Add</i>	3,038.48	
				<i>For Class 56 Rating, Add</i>	4,026.66	
40 05 19 00-2397	EA			20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,611.72	1,112.93
				<i>For Class 52 Rating, Deduct</i>	-1,531.80	
				<i>For Class 54 Rating, Add</i>	2,109.05	
				<i>For Class 55 Rating, Add</i>	3,145.85	
				<i>For Class 56 Rating, Add</i>	4,168.72	
40 05 19 00-2398	EA			20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,098.85	1,117.13
				<i>For Class 52 Rating, Deduct</i>	-1,584.69	
				<i>For Class 54 Rating, Add</i>	2,181.25	
				<i>For Class 55 Rating, Add</i>	3,253.21	
				<i>For Class 56 Rating, Add</i>	4,310.77	
40 05 19 00-2399	EA			20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,585.99	1,121.33
				<i>For Class 52 Rating, Deduct</i>	-1,637.57	
				<i>For Class 54 Rating, Add</i>	2,253.44	
				<i>For Class 55 Rating, Add</i>	3,360.58	
				<i>For Class 56 Rating, Add</i>	4,452.83	
40 05 19 00-2400	EA			20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,073.12	1,125.53
				<i>For Class 52 Rating, Deduct</i>	-1,690.45	
				<i>For Class 54 Rating, Add</i>	2,325.63	
				<i>For Class 55 Rating, Add</i>	3,467.94	
				<i>For Class 56 Rating, Add</i>	4,594.88	
40 05 19 00-2401	EA			20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,560.25	1,129.72
				<i>For Class 52 Rating, Deduct</i>	-1,743.34	
				<i>For Class 54 Rating, Add</i>	2,397.82	
				<i>For Class 55 Rating, Add</i>	3,575.31	
				<i>For Class 56 Rating, Add</i>	4,736.94	
40 05 19 00-2402	EA			20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,047.39	1,133.93
				<i>For Class 52 Rating, Deduct</i>	-1,796.22	
				<i>For Class 54 Rating, Add</i>	2,470.01	
				<i>For Class 55 Rating, Add</i>	3,682.67	
				<i>For Class 56 Rating, Add</i>	4,879.00	
40 05 19 00-2403	EA			20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,534.52	1,138.12
				<i>For Class 52 Rating, Deduct</i>	-1,849.11	
				<i>For Class 54 Rating, Add</i>	2,542.21	
				<i>For Class 55 Rating, Add</i>	3,790.03	
				<i>For Class 56 Rating, Add</i>	5,021.05	
40 05 19 00-2404	EA			20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,021.65	1,142.33
				<i>For Class 52 Rating, Deduct</i>	-1,901.99	
				<i>For Class 54 Rating, Add</i>	2,614.40	
				<i>For Class 55 Rating, Add</i>	3,897.40	
				<i>For Class 56 Rating, Add</i>	5,163.11	
40 05 19 00-2405	EA			20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,508.78	1,146.53
				<i>For Class 52 Rating, Deduct</i>	-1,954.88	
				<i>For Class 54 Rating, Add</i>	2,686.59	
				<i>For Class 55 Rating, Add</i>	4,004.76	
				<i>For Class 56 Rating, Add</i>	5,305.17	
40 05 19 00-2406	EA			20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,995.91	1,150.73
				<i>For Class 52 Rating, Deduct</i>	-2,007.76	
				<i>For Class 54 Rating, Add</i>	2,758.78	
				<i>For Class 55 Rating, Add</i>	4,112.13	
				<i>For Class 56 Rating, Add</i>	5,447.22	
40 05 19 00-2407	EA			20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,483.04	1,154.93
				<i>For Class 52 Rating, Deduct</i>	-2,060.65	
				<i>For Class 54 Rating, Add</i>	2,830.97	
				<i>For Class 55 Rating, Add</i>	4,219.49	
				<i>For Class 56 Rating, Add</i>	5,589.28	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2408	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,970.18	1,159.12
		<i>For Class 52 Rating, Deduct</i>		-2,113.53	
		<i>For Class 54 Rating, Add</i>		2,903.16	
		<i>For Class 55 Rating, Add</i>		4,326.86	
		<i>For Class 56 Rating, Add</i>		5,731.33	
40 05 19 00-2409	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,457.31	1,163.33
		<i>For Class 52 Rating, Deduct</i>		-2,166.42	
		<i>For Class 54 Rating, Add</i>		2,975.36	
		<i>For Class 55 Rating, Add</i>		4,434.22	
		<i>For Class 56 Rating, Add</i>		5,873.39	
40 05 19 00-2410	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,944.45	1,167.52
		<i>For Class 52 Rating, Deduct</i>		-2,219.30	
		<i>For Class 54 Rating, Add</i>		3,047.55	
		<i>For Class 55 Rating, Add</i>		4,541.59	
		<i>For Class 56 Rating, Add</i>		6,015.45	
40 05 19 00-2411	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,431.58	1,171.73
		<i>For Class 52 Rating, Deduct</i>		-2,272.19	
		<i>For Class 54 Rating, Add</i>		3,119.74	
		<i>For Class 55 Rating, Add</i>		4,648.95	
		<i>For Class 56 Rating, Add</i>		6,157.50	
40 05 19 00-2412	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,918.71	1,175.92
		<i>For Class 52 Rating, Deduct</i>		-2,325.07	
		<i>For Class 54 Rating, Add</i>		3,191.93	
		<i>For Class 55 Rating, Add</i>		4,756.31	
		<i>For Class 56 Rating, Add</i>		6,299.56	
40 05 19 00-2413	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,405.85	1,180.13
		<i>For Class 52 Rating, Deduct</i>		-2,377.96	
		<i>For Class 54 Rating, Add</i>		3,264.12	
		<i>For Class 55 Rating, Add</i>		4,863.68	
		<i>For Class 56 Rating, Add</i>		6,441.62	
40 05 19 00-2414	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,892.98	1,184.32
		<i>For Class 52 Rating, Deduct</i>		-2,430.84	
		<i>For Class 54 Rating, Add</i>		3,336.32	
		<i>For Class 55 Rating, Add</i>		4,971.04	
		<i>For Class 56 Rating, Add</i>		6,583.67	
40 05 19 00-2415	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,380.11	1,188.52
		<i>For Class 52 Rating, Deduct</i>		-2,483.73	
		<i>For Class 54 Rating, Add</i>		3,408.51	
		<i>For Class 55 Rating, Add</i>		5,078.41	
		<i>For Class 56 Rating, Add</i>		6,725.73	
40 05 19 00-2416	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,867.25	1,192.73
		<i>For Class 52 Rating, Deduct</i>		-2,536.61	
		<i>For Class 54 Rating, Add</i>		3,480.70	
		<i>For Class 55 Rating, Add</i>		5,185.77	
		<i>For Class 56 Rating, Add</i>		6,867.78	
40 05 19 00-2417		24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>			
40 05 19 00-2418	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,437.02	1,226.32
		<i>For Class 52 Rating, Deduct</i>		-723.69	
		<i>For Class 54 Rating, Add</i>		1,009.14	
		<i>For Class 55 Rating, Add</i>		1,511.70	
		<i>For Class 56 Rating, Add</i>		2,007.68	
40 05 19 00-2419	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,039.43	1,230.52
		<i>For Class 52 Rating, Deduct</i>		-789.25	
		<i>For Class 54 Rating, Add</i>		1,098.62	
		<i>For Class 55 Rating, Add</i>		1,644.77	
		<i>For Class 56 Rating, Add</i>		2,183.74	
40 05 19 00-2420	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,641.83	1,234.72
		<i>For Class 52 Rating, Deduct</i>		-854.81	
		<i>For Class 54 Rating, Add</i>		1,188.11	
		<i>For Class 55 Rating, Add</i>		1,777.84	
		<i>For Class 56 Rating, Add</i>		2,359.81	
40 05 19 00-2421	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,244.23	1,238.93
		<i>For Class 52 Rating, Deduct</i>		-920.38	
		<i>For Class 54 Rating, Add</i>		1,277.59	
		<i>For Class 55 Rating, Add</i>		1,910.91	
		<i>For Class 56 Rating, Add</i>		2,535.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2422 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,846.65	1,243.12
<i>For Class 52 Rating, Deduct</i>	-985.94	
<i>For Class 54 Rating, Add</i>	1,367.07	
<i>For Class 55 Rating, Add</i>	2,043.98	
<i>For Class 56 Rating, Add</i>	2,711.93	
40 05 19 00-2423 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,449.05	1,247.32
<i>For Class 52 Rating, Deduct</i>	-1,051.51	
<i>For Class 54 Rating, Add</i>	1,456.55	
<i>For Class 55 Rating, Add</i>	2,177.05	
<i>For Class 56 Rating, Add</i>	2,887.99	
40 05 19 00-2424 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,051.45	1,251.52
<i>For Class 52 Rating, Deduct</i>	-1,117.07	
<i>For Class 54 Rating, Add</i>	1,546.04	
<i>For Class 55 Rating, Add</i>	2,310.12	
<i>For Class 56 Rating, Add</i>	3,064.05	
40 05 19 00-2425 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,653.86	1,255.72
<i>For Class 52 Rating, Deduct</i>	-1,182.64	
<i>For Class 54 Rating, Add</i>	1,635.52	
<i>For Class 55 Rating, Add</i>	2,443.19	
<i>For Class 56 Rating, Add</i>	3,240.11	
40 05 19 00-2426 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,256.26	1,259.92
<i>For Class 52 Rating, Deduct</i>	-1,248.20	
<i>For Class 54 Rating, Add</i>	1,725.00	
<i>For Class 55 Rating, Add</i>	2,576.26	
<i>For Class 56 Rating, Add</i>	3,416.17	
40 05 19 00-2427 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,858.67	1,264.12
<i>For Class 52 Rating, Deduct</i>	-1,313.77	
<i>For Class 54 Rating, Add</i>	1,814.48	
<i>For Class 55 Rating, Add</i>	2,709.33	
<i>For Class 56 Rating, Add</i>	3,592.24	
40 05 19 00-2428 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,461.08	1,268.32
<i>For Class 52 Rating, Deduct</i>	-1,379.33	
<i>For Class 54 Rating, Add</i>	1,903.97	
<i>For Class 55 Rating, Add</i>	2,842.40	
<i>For Class 56 Rating, Add</i>	3,768.30	
40 05 19 00-2429 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,063.48	1,272.52
<i>For Class 52 Rating, Deduct</i>	-1,444.90	
<i>For Class 54 Rating, Add</i>	1,993.45	
<i>For Class 55 Rating, Add</i>	2,975.47	
<i>For Class 56 Rating, Add</i>	3,944.36	
40 05 19 00-2430 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,665.89	1,276.71
<i>For Class 52 Rating, Deduct</i>	-1,510.46	
<i>For Class 54 Rating, Add</i>	2,082.93	
<i>For Class 55 Rating, Add</i>	3,108.54	
<i>For Class 56 Rating, Add</i>	4,120.42	
40 05 19 00-2431 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,268.30	1,280.92
<i>For Class 52 Rating, Deduct</i>	-1,576.03	
<i>For Class 54 Rating, Add</i>	2,172.42	
<i>For Class 55 Rating, Add</i>	3,241.61	
<i>For Class 56 Rating, Add</i>	4,296.48	
40 05 19 00-2432 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,870.70	1,285.12
<i>For Class 52 Rating, Deduct</i>	-1,641.59	
<i>For Class 54 Rating, Add</i>	2,261.90	
<i>For Class 55 Rating, Add</i>	3,374.68	
<i>For Class 56 Rating, Add</i>	4,472.54	
40 05 19 00-2433 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,473.11	1,289.32
<i>For Class 52 Rating, Deduct</i>	-1,707.15	
<i>For Class 54 Rating, Add</i>	2,351.38	
<i>For Class 55 Rating, Add</i>	3,507.75	
<i>For Class 56 Rating, Add</i>	4,648.61	
40 05 19 00-2434 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,075.51	1,293.52
<i>For Class 52 Rating, Deduct</i>	-1,772.72	
<i>For Class 54 Rating, Add</i>	2,440.86	
<i>For Class 55 Rating, Add</i>	3,640.82	
<i>For Class 56 Rating, Add</i>	4,824.67	
40 05 19 00-2435 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,677.91	1,297.72
<i>For Class 52 Rating, Deduct</i>	-1,838.28	
<i>For Class 54 Rating, Add</i>	2,530.35	
<i>For Class 55 Rating, Add</i>	3,773.89	
<i>For Class 56 Rating, Add</i>	5,000.73	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2436	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	19,280.33	1,301.92
		<i>For Class 52 Rating, Deduct</i>		-1,903.85	
		<i>For Class 54 Rating, Add</i>		2,619.83	
		<i>For Class 55 Rating, Add</i>		3,906.96	
		<i>For Class 56 Rating, Add</i>		5,176.79	
40 05 19 00-2437	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	19,882.73	1,306.11
		<i>For Class 52 Rating, Deduct</i>		-1,969.41	
		<i>For Class 54 Rating, Add</i>		2,709.31	
		<i>For Class 55 Rating, Add</i>		4,040.03	
		<i>For Class 56 Rating, Add</i>		5,352.85	
40 05 19 00-2438	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	20,485.13	1,310.32
		<i>For Class 52 Rating, Deduct</i>		-2,034.98	
		<i>For Class 54 Rating, Add</i>		2,798.79	
		<i>For Class 55 Rating, Add</i>		4,173.10	
		<i>For Class 56 Rating, Add</i>		5,528.91	
40 05 19 00-2439	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	21,087.54	1,314.51
		<i>For Class 52 Rating, Deduct</i>		-2,100.54	
		<i>For Class 54 Rating, Add</i>		2,888.28	
		<i>For Class 55 Rating, Add</i>		4,306.17	
		<i>For Class 56 Rating, Add</i>		5,704.97	
40 05 19 00-2440	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	21,689.94	1,318.72
		<i>For Class 52 Rating, Deduct</i>		-2,166.11	
		<i>For Class 54 Rating, Add</i>		2,977.76	
		<i>For Class 55 Rating, Add</i>		4,439.24	
		<i>For Class 56 Rating, Add</i>		5,881.04	
40 05 19 00-2441	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	22,292.34	1,322.91
		<i>For Class 52 Rating, Deduct</i>		-2,231.67	
		<i>For Class 54 Rating, Add</i>		3,067.24	
		<i>For Class 55 Rating, Add</i>		4,572.31	
		<i>For Class 56 Rating, Add</i>		6,057.10	
40 05 19 00-2442	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	22,894.75	1,327.12
		<i>For Class 52 Rating, Deduct</i>		-2,297.24	
		<i>For Class 54 Rating, Add</i>		3,156.72	
		<i>For Class 55 Rating, Add</i>		4,705.38	
		<i>For Class 56 Rating, Add</i>		6,233.16	
40 05 19 00-2443	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	23,497.15	1,331.32
		<i>For Class 52 Rating, Deduct</i>		-2,362.80	
		<i>For Class 54 Rating, Add</i>		3,246.21	
		<i>For Class 55 Rating, Add</i>		4,838.45	
		<i>For Class 56 Rating, Add</i>		6,409.22	
40 05 19 00-2444	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	24,099.56	1,335.51
		<i>For Class 52 Rating, Deduct</i>		-2,428.37	
		<i>For Class 54 Rating, Add</i>		3,335.69	
		<i>For Class 55 Rating, Add</i>		4,971.53	
		<i>For Class 56 Rating, Add</i>		6,585.28	
40 05 19 00-2445	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	24,701.97	1,339.72
		<i>For Class 52 Rating, Deduct</i>		-2,493.93	
		<i>For Class 54 Rating, Add</i>		3,425.17	
		<i>For Class 55 Rating, Add</i>		5,104.60	
		<i>For Class 56 Rating, Add</i>		6,761.34	
40 05 19 00-2446	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	25,304.37	1,343.91
		<i>For Class 52 Rating, Deduct</i>		-2,559.50	
		<i>For Class 54 Rating, Add</i>		3,514.66	
		<i>For Class 55 Rating, Add</i>		5,237.66	
		<i>For Class 56 Rating, Add</i>		6,937.41	
40 05 19 00-2447	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	26,014.95	1,419.51
		<i>For Class 52 Rating, Deduct</i>		-2,625.06	
		<i>For Class 54 Rating, Add</i>		3,605.44	
		<i>For Class 55 Rating, Add</i>		5,373.33	
		<i>For Class 56 Rating, Add</i>		7,117.36	
40 05 19 00-2448	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	26,617.36	1,423.71
		<i>For Class 52 Rating, Deduct</i>		-2,690.62	
		<i>For Class 54 Rating, Add</i>		3,694.92	
		<i>For Class 55 Rating, Add</i>		5,506.40	
		<i>For Class 56 Rating, Add</i>		7,293.42	
40 05 19 00-2449	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	27,219.77	1,427.91
		<i>For Class 52 Rating, Deduct</i>		-2,756.19	
		<i>For Class 54 Rating, Add</i>		3,784.40	
		<i>For Class 55 Rating, Add</i>		5,639.47	
		<i>For Class 56 Rating, Add</i>		7,469.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2450 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,822.17	1,432.11
<i>For Class 52 Rating, Deduct</i>	-2,821.75	
<i>For Class 54 Rating, Add</i>	3,873.88	
<i>For Class 55 Rating, Add</i>	5,772.54	
<i>For Class 56 Rating, Add</i>	7,645.55	
40 05 19 00-2451 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,424.58	1,436.31
<i>For Class 52 Rating, Deduct</i>	-2,887.32	
<i>For Class 54 Rating, Add</i>	3,963.37	
<i>For Class 55 Rating, Add</i>	5,905.61	
<i>For Class 56 Rating, Add</i>	7,821.61	
40 05 19 00-2452 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,026.98	1,440.51
<i>For Class 52 Rating, Deduct</i>	-2,952.88	
<i>For Class 54 Rating, Add</i>	4,052.85	
<i>For Class 55 Rating, Add</i>	6,038.68	
<i>For Class 56 Rating, Add</i>	7,997.67	
40 05 19 00-2453 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,629.39	1,444.71
<i>For Class 52 Rating, Deduct</i>	-3,018.45	
<i>For Class 54 Rating, Add</i>	4,142.33	
<i>For Class 55 Rating, Add</i>	6,171.75	
<i>For Class 56 Rating, Add</i>	8,173.73	
40 05 19 00-2454 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,231.80	1,448.91
<i>For Class 52 Rating, Deduct</i>	-3,084.01	
<i>For Class 54 Rating, Add</i>	4,231.82	
<i>For Class 55 Rating, Add</i>	6,304.82	
<i>For Class 56 Rating, Add</i>	8,349.79	
40 05 19 00-2455 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,834.20	1,453.10
<i>For Class 52 Rating, Deduct</i>	-3,149.58	
<i>For Class 54 Rating, Add</i>	4,321.30	
<i>For Class 55 Rating, Add</i>	6,437.89	
<i>For Class 56 Rating, Add</i>	8,525.85	
40 05 19 00-2456 30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-2060)</small>		
40 05 19 00-2457 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,035.52	1,730.29
<i>For Class 52 Rating, Deduct</i>	-1,145.53	
<i>For Class 54 Rating, Add</i>	1,593.54	
<i>For Class 55 Rating, Add</i>	2,385.21	
<i>For Class 56 Rating, Add</i>	3,166.47	
40 05 19 00-2458 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,896.58	1,734.49
<i>For Class 52 Rating, Deduct</i>	-1,239.54	
<i>For Class 54 Rating, Add</i>	1,721.82	
<i>For Class 55 Rating, Add</i>	2,575.96	
<i>For Class 56 Rating, Add</i>	3,418.84	
40 05 19 00-2459 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,757.65	1,738.69
<i>For Class 52 Rating, Deduct</i>	-1,333.56	
<i>For Class 54 Rating, Add</i>	1,850.10	
<i>For Class 55 Rating, Add</i>	2,766.71	
<i>For Class 56 Rating, Add</i>	3,671.20	
40 05 19 00-2460 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,618.72	1,742.89
<i>For Class 52 Rating, Deduct</i>	-1,427.58	
<i>For Class 54 Rating, Add</i>	1,978.39	
<i>For Class 55 Rating, Add</i>	2,957.47	
<i>For Class 56 Rating, Add</i>	3,923.57	
40 05 19 00-2461 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,479.78	1,747.09
<i>For Class 52 Rating, Deduct</i>	-1,521.59	
<i>For Class 54 Rating, Add</i>	2,106.67	
<i>For Class 55 Rating, Add</i>	3,148.22	
<i>For Class 56 Rating, Add</i>	4,175.94	
40 05 19 00-2462 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,340.85	1,751.29
<i>For Class 52 Rating, Deduct</i>	-1,615.61	
<i>For Class 54 Rating, Add</i>	2,234.95	
<i>For Class 55 Rating, Add</i>	3,338.97	
<i>For Class 56 Rating, Add</i>	4,428.30	
40 05 19 00-2463 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,201.91	1,755.48
<i>For Class 52 Rating, Deduct</i>	-1,709.63	
<i>For Class 54 Rating, Add</i>	2,363.23	
<i>For Class 55 Rating, Add</i>	3,529.72	
<i>For Class 56 Rating, Add</i>	4,680.67	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2464	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,062.97	1,759.69
		<i>For Class 52 Rating, Deduct</i>	-1,803.65	
		<i>For Class 54 Rating, Add</i>	2,491.51	
		<i>For Class 55 Rating, Add</i>	3,720.47	
		<i>For Class 56 Rating, Add</i>	4,933.03	
40 05 19 00-2465	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,924.05	1,763.89
		<i>For Class 52 Rating, Deduct</i>	-1,897.66	
		<i>For Class 54 Rating, Add</i>	2,619.79	
		<i>For Class 55 Rating, Add</i>	3,911.22	
		<i>For Class 56 Rating, Add</i>	5,185.40	
40 05 19 00-2466	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,785.11	1,768.09
		<i>For Class 52 Rating, Deduct</i>	-1,991.68	
		<i>For Class 54 Rating, Add</i>	2,748.08	
		<i>For Class 55 Rating, Add</i>	4,101.97	
		<i>For Class 56 Rating, Add</i>	5,437.77	
40 05 19 00-2467	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,646.17	1,772.29
		<i>For Class 52 Rating, Deduct</i>	-2,085.70	
		<i>For Class 54 Rating, Add</i>	2,876.36	
		<i>For Class 55 Rating, Add</i>	4,292.73	
		<i>For Class 56 Rating, Add</i>	5,690.13	
40 05 19 00-2468	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,507.24	1,776.49
		<i>For Class 52 Rating, Deduct</i>	-2,179.71	
		<i>For Class 54 Rating, Add</i>	3,004.64	
		<i>For Class 55 Rating, Add</i>	4,483.48	
		<i>For Class 56 Rating, Add</i>	5,942.50	
40 05 19 00-2469	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,368.31	1,780.69
		<i>For Class 52 Rating, Deduct</i>	-2,273.73	
		<i>For Class 54 Rating, Add</i>	3,132.92	
		<i>For Class 55 Rating, Add</i>	4,674.23	
		<i>For Class 56 Rating, Add</i>	6,194.87	
40 05 19 00-2470	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,229.38	1,784.88
		<i>For Class 52 Rating, Deduct</i>	-2,367.75	
		<i>For Class 54 Rating, Add</i>	3,261.20	
		<i>For Class 55 Rating, Add</i>	4,864.98	
		<i>For Class 56 Rating, Add</i>	6,447.23	
40 05 19 00-2471	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,090.44	1,789.09
		<i>For Class 52 Rating, Deduct</i>	-2,461.77	
		<i>For Class 54 Rating, Add</i>	3,389.48	
		<i>For Class 55 Rating, Add</i>	5,055.73	
		<i>For Class 56 Rating, Add</i>	6,699.60	
40 05 19 00-2472	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,951.50	1,793.28
		<i>For Class 52 Rating, Deduct</i>	-2,555.78	
		<i>For Class 54 Rating, Add</i>	3,517.77	
		<i>For Class 55 Rating, Add</i>	5,246.48	
		<i>For Class 56 Rating, Add</i>	6,951.96	
40 05 19 00-2473	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,812.57	1,797.49
		<i>For Class 52 Rating, Deduct</i>	-2,649.80	
		<i>For Class 54 Rating, Add</i>	3,646.05	
		<i>For Class 55 Rating, Add</i>	5,437.23	
		<i>For Class 56 Rating, Add</i>	7,204.33	
40 05 19 00-2474	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,673.64	1,801.68
		<i>For Class 52 Rating, Deduct</i>	-2,743.82	
		<i>For Class 54 Rating, Add</i>	3,774.33	
		<i>For Class 55 Rating, Add</i>	5,627.99	
		<i>For Class 56 Rating, Add</i>	7,456.70	
40 05 19 00-2475	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,534.70	1,805.89
		<i>For Class 52 Rating, Deduct</i>	-2,837.84	
		<i>For Class 54 Rating, Add</i>	3,902.61	
		<i>For Class 55 Rating, Add</i>	5,818.74	
		<i>For Class 56 Rating, Add</i>	7,709.06	
40 05 19 00-2476	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,395.77	1,810.09
		<i>For Class 52 Rating, Deduct</i>	-2,931.85	
		<i>For Class 54 Rating, Add</i>	4,030.89	
		<i>For Class 55 Rating, Add</i>	6,009.49	
		<i>For Class 56 Rating, Add</i>	7,961.43	
40 05 19 00-2477	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,256.83	1,814.28
		<i>For Class 52 Rating, Deduct</i>	-3,025.87	
		<i>For Class 54 Rating, Add</i>	4,159.17	
		<i>For Class 55 Rating, Add</i>	6,200.24	
		<i>For Class 56 Rating, Add</i>	8,213.79	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2478 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,117.89	1,818.49
<i>For Class 52 Rating, Deduct</i>	-3,119.89	
<i>For Class 54 Rating, Add</i>	4,287.45	
<i>For Class 55 Rating, Add</i>	6,390.99	
<i>For Class 56 Rating, Add</i>	8,466.16	
40 05 19 00-2479 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,978.97	1,822.68
<i>For Class 52 Rating, Deduct</i>	-3,213.91	
<i>For Class 54 Rating, Add</i>	4,415.74	
<i>For Class 55 Rating, Add</i>	6,581.74	
<i>For Class 56 Rating, Add</i>	8,718.53	
40 05 19 00-2480 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,840.03	1,826.89
<i>For Class 52 Rating, Deduct</i>	-3,307.92	
<i>For Class 54 Rating, Add</i>	4,544.02	
<i>For Class 55 Rating, Add</i>	6,772.49	
<i>For Class 56 Rating, Add</i>	8,970.89	
40 05 19 00-2481 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,701.09	1,831.08
<i>For Class 52 Rating, Deduct</i>	-3,401.94	
<i>For Class 54 Rating, Add</i>	4,672.30	
<i>For Class 55 Rating, Add</i>	6,963.24	
<i>For Class 56 Rating, Add</i>	9,223.26	
40 05 19 00-2482 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,562.16	1,835.29
<i>For Class 52 Rating, Deduct</i>	-3,495.96	
<i>For Class 54 Rating, Add</i>	4,800.58	
<i>For Class 55 Rating, Add</i>	7,153.99	
<i>For Class 56 Rating, Add</i>	9,475.63	
40 05 19 00-2483 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,423.22	1,839.48
<i>For Class 52 Rating, Deduct</i>	-3,589.97	
<i>For Class 54 Rating, Add</i>	4,928.86	
<i>For Class 55 Rating, Add</i>	7,344.75	
<i>For Class 56 Rating, Add</i>	9,727.99	
40 05 19 00-2484 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,284.29	1,843.68
<i>For Class 52 Rating, Deduct</i>	-3,683.99	
<i>For Class 54 Rating, Add</i>	5,057.15	
<i>For Class 55 Rating, Add</i>	7,535.50	
<i>For Class 56 Rating, Add</i>	9,980.36	
40 05 19 00-2485 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,145.35	1,847.88
<i>For Class 52 Rating, Deduct</i>	-3,778.01	
<i>For Class 54 Rating, Add</i>	5,185.43	
<i>For Class 55 Rating, Add</i>	7,726.25	
<i>For Class 56 Rating, Add</i>	10,232.72	
40 05 19 00-2486 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,006.41	1,852.08
<i>For Class 52 Rating, Deduct</i>	-3,872.03	
<i>For Class 54 Rating, Add</i>	5,313.71	
<i>For Class 55 Rating, Add</i>	7,917.00	
<i>For Class 56 Rating, Add</i>	10,485.09	
40 05 19 00-2487 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,867.47	1,856.29
<i>For Class 52 Rating, Deduct</i>	-3,966.04	
<i>For Class 54 Rating, Add</i>	5,441.99	
<i>For Class 55 Rating, Add</i>	8,107.75	
<i>For Class 56 Rating, Add</i>	10,737.46	
40 05 19 00-2488 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,728.54	1,860.48
<i>For Class 52 Rating, Deduct</i>	-4,060.06	
<i>For Class 54 Rating, Add</i>	5,570.27	
<i>For Class 55 Rating, Add</i>	8,298.50	
<i>For Class 56 Rating, Add</i>	10,989.82	
40 05 19 00-2489 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,589.61	1,864.69
<i>For Class 52 Rating, Deduct</i>	-4,154.08	
<i>For Class 54 Rating, Add</i>	5,698.55	
<i>For Class 55 Rating, Add</i>	8,489.25	
<i>For Class 56 Rating, Add</i>	11,242.19	
40 05 19 00-2490 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,450.67	1,868.88
<i>For Class 52 Rating, Deduct</i>	-4,248.09	
<i>For Class 54 Rating, Add</i>	5,826.84	
<i>For Class 55 Rating, Add</i>	8,680.01	
<i>For Class 56 Rating, Add</i>	11,494.56	
40 05 19 00-2491 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,311.74	1,873.08
<i>For Class 52 Rating, Deduct</i>	-4,342.11	
<i>For Class 54 Rating, Add</i>	5,955.12	
<i>For Class 55 Rating, Add</i>	8,870.76	
<i>For Class 56 Rating, Add</i>	11,746.92	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
 40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2492		36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>		
40 05 19 00-2493	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,169.25	2,192.26
		For Class 52 Rating, Deduct	-1,633.24	
		For Class 54 Rating, Add	2,267.01	
		For Class 55 Rating, Add	3,390.74	
		For Class 56 Rating, Add	4,499.63	
40 05 19 00-2494	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,322.72	2,196.46
		For Class 52 Rating, Deduct	-1,759.42	
		For Class 54 Rating, Add	2,439.15	
		For Class 55 Rating, Add	3,646.70	
		For Class 56 Rating, Add	4,838.26	
40 05 19 00-2495	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,476.17	2,200.66
		For Class 52 Rating, Deduct	-1,885.60	
		For Class 54 Rating, Add	2,611.29	
		For Class 55 Rating, Add	3,902.65	
		For Class 56 Rating, Add	5,176.88	
40 05 19 00-2496	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,629.63	2,204.86
		For Class 52 Rating, Deduct	-2,011.78	
		For Class 54 Rating, Add	2,783.43	
		For Class 55 Rating, Add	4,158.61	
		For Class 56 Rating, Add	5,515.50	
40 05 19 00-2497	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,783.10	2,209.06
		For Class 52 Rating, Deduct	-2,137.96	
		For Class 54 Rating, Add	2,955.57	
		For Class 55 Rating, Add	4,414.57	
		For Class 56 Rating, Add	5,854.13	
40 05 19 00-2498	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,936.56	2,213.26
		For Class 52 Rating, Deduct	-2,264.15	
		For Class 54 Rating, Add	3,127.71	
		For Class 55 Rating, Add	4,670.52	
		For Class 56 Rating, Add	6,192.75	
40 05 19 00-2499	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,090.02	2,217.46
		For Class 52 Rating, Deduct	-2,390.33	
		For Class 54 Rating, Add	3,299.85	
		For Class 55 Rating, Add	4,926.48	
		For Class 56 Rating, Add	6,531.37	
40 05 19 00-2500	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,243.49	2,221.66
		For Class 52 Rating, Deduct	-2,516.51	
		For Class 54 Rating, Add	3,471.99	
		For Class 55 Rating, Add	5,182.43	
		For Class 56 Rating, Add	6,870.00	
40 05 19 00-2501	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,396.95	2,225.85
		For Class 52 Rating, Deduct	-2,642.69	
		For Class 54 Rating, Add	3,644.14	
		For Class 55 Rating, Add	5,438.39	
		For Class 56 Rating, Add	7,208.62	
40 05 19 00-2502	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,550.41	2,230.06
		For Class 52 Rating, Deduct	-2,768.87	
		For Class 54 Rating, Add	3,816.28	
		For Class 55 Rating, Add	5,694.35	
		For Class 56 Rating, Add	7,547.24	
40 05 19 00-2503	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,703.88	2,234.26
		For Class 52 Rating, Deduct	-2,895.05	
		For Class 54 Rating, Add	3,988.42	
		For Class 55 Rating, Add	5,950.30	
		For Class 56 Rating, Add	7,885.87	
40 05 19 00-2504	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,857.34	2,238.46
		For Class 52 Rating, Deduct	-3,021.23	
		For Class 54 Rating, Add	4,160.56	
		For Class 55 Rating, Add	6,206.26	
		For Class 56 Rating, Add	8,224.49	
40 05 19 00-2505	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,010.80	2,242.66
		For Class 52 Rating, Deduct	-3,147.41	
		For Class 54 Rating, Add	4,332.70	
		For Class 55 Rating, Add	6,462.21	
		For Class 56 Rating, Add	8,563.11	
40 05 19 00-2506	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,164.27	2,246.86
		For Class 52 Rating, Deduct	-3,273.59	
		For Class 54 Rating, Add	4,504.84	
		For Class 55 Rating, Add	6,718.17	
		For Class 56 Rating, Add	8,901.74	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2507	EA			36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,317.73	2,251.06
				<i>For Class 52 Rating, Deduct</i>	-3,399.77	
				<i>For Class 54 Rating, Add</i>	4,676.98	
				<i>For Class 55 Rating, Add</i>	6,974.13	
				<i>For Class 56 Rating, Add</i>	9,240.36	
40 05 19 00-2508	EA			36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,471.19	2,255.25
				<i>For Class 52 Rating, Deduct</i>	-3,525.96	
				<i>For Class 54 Rating, Add</i>	4,849.13	
				<i>For Class 55 Rating, Add</i>	7,230.08	
				<i>For Class 56 Rating, Add</i>	9,578.99	
40 05 19 00-2509	EA			36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,624.66	2,259.46
				<i>For Class 52 Rating, Deduct</i>	-3,652.14	
				<i>For Class 54 Rating, Add</i>	5,021.27	
				<i>For Class 55 Rating, Add</i>	7,486.04	
				<i>For Class 56 Rating, Add</i>	9,917.61	
40 05 19 00-2510	EA			36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,778.12	2,263.65
				<i>For Class 52 Rating, Deduct</i>	-3,778.32	
				<i>For Class 54 Rating, Add</i>	5,193.41	
				<i>For Class 55 Rating, Add</i>	7,741.99	
				<i>For Class 56 Rating, Add</i>	10,256.23	
40 05 19 00-2511	EA			36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,931.58	2,267.86
				<i>For Class 52 Rating, Deduct</i>	-3,904.50	
				<i>For Class 54 Rating, Add</i>	5,365.55	
				<i>For Class 55 Rating, Add</i>	7,997.95	
				<i>For Class 56 Rating, Add</i>	10,594.86	
40 05 19 00-2512	EA			36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,085.05	2,272.05
				<i>For Class 52 Rating, Deduct</i>	-4,030.68	
				<i>For Class 54 Rating, Add</i>	5,537.69	
				<i>For Class 55 Rating, Add</i>	8,253.91	
				<i>For Class 56 Rating, Add</i>	10,933.48	
40 05 19 00-2513	EA			36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,238.51	2,276.26
				<i>For Class 52 Rating, Deduct</i>	-4,156.86	
				<i>For Class 54 Rating, Add</i>	5,709.83	
				<i>For Class 55 Rating, Add</i>	8,509.86	
				<i>For Class 56 Rating, Add</i>	11,272.10	
40 05 19 00-2514	EA			36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,391.97	2,280.46
				<i>For Class 52 Rating, Deduct</i>	-4,283.04	
				<i>For Class 54 Rating, Add</i>	5,881.97	
				<i>For Class 55 Rating, Add</i>	8,765.82	
				<i>For Class 56 Rating, Add</i>	11,610.73	
40 05 19 00-2515	EA			36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,545.44	2,284.65
				<i>For Class 52 Rating, Deduct</i>	-4,409.22	
				<i>For Class 54 Rating, Add</i>	6,054.12	
				<i>For Class 55 Rating, Add</i>	9,021.77	
				<i>For Class 56 Rating, Add</i>	11,949.35	
40 05 19 00-2516	EA			36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,698.90	2,288.86
				<i>For Class 52 Rating, Deduct</i>	-4,535.40	
				<i>For Class 54 Rating, Add</i>	6,226.26	
				<i>For Class 55 Rating, Add</i>	9,277.73	
				<i>For Class 56 Rating, Add</i>	12,287.97	
40 05 19 00-2517	EA			36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,852.37	2,293.05
				<i>For Class 52 Rating, Deduct</i>	-4,661.58	
				<i>For Class 54 Rating, Add</i>	6,398.40	
				<i>For Class 55 Rating, Add</i>	9,533.69	
				<i>For Class 56 Rating, Add</i>	12,626.60	
40 05 19 00-2518	EA			36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,005.83	2,297.26
				<i>For Class 52 Rating, Deduct</i>	-4,787.77	
				<i>For Class 54 Rating, Add</i>	6,570.54	
				<i>For Class 55 Rating, Add</i>	9,789.64	
				<i>For Class 56 Rating, Add</i>	12,965.22	
40 05 19 00-2519	EA			36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,159.29	2,301.45
				<i>For Class 52 Rating, Deduct</i>	-4,913.95	
				<i>For Class 54 Rating, Add</i>	6,742.68	
				<i>For Class 55 Rating, Add</i>	10,045.60	
				<i>For Class 56 Rating, Add</i>	13,303.84	
40 05 19 00-2520	EA			36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,312.76	2,305.66
				<i>For Class 52 Rating, Deduct</i>	-5,040.13	
				<i>For Class 54 Rating, Add</i>	6,914.82	
				<i>For Class 55 Rating, Add</i>	10,301.55	
				<i>For Class 56 Rating, Add</i>	13,642.47	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2521	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,466.22	2,309.85
			<i>For Class 52 Rating, Deduct</i>	-5,166.31	
			<i>For Class 54 Rating, Add</i>	7,086.96	
			<i>For Class 55 Rating, Add</i>	10,557.51	
			<i>For Class 56 Rating, Add</i>	13,981.09	
40 05 19 00-2522	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,619.68	2,314.05
			<i>For Class 52 Rating, Deduct</i>	-5,292.49	
			<i>For Class 54 Rating, Add</i>	7,259.10	
			<i>For Class 55 Rating, Add</i>	10,813.47	
			<i>For Class 56 Rating, Add</i>	14,319.72	
40 05 19 00-2523	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,773.15	2,318.25
			<i>For Class 52 Rating, Deduct</i>	-5,418.67	
			<i>For Class 54 Rating, Add</i>	7,431.25	
			<i>For Class 55 Rating, Add</i>	11,069.42	
			<i>For Class 56 Rating, Add</i>	14,658.34	
40 05 19 00-2524	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,926.61	2,322.45
			<i>For Class 52 Rating, Deduct</i>	-5,544.85	
			<i>For Class 54 Rating, Add</i>	7,603.39	
			<i>For Class 55 Rating, Add</i>	11,325.38	
			<i>For Class 56 Rating, Add</i>	14,996.96	
40 05 19 00-2525	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,080.07	2,326.66
			<i>For Class 52 Rating, Deduct</i>	-5,671.03	
			<i>For Class 54 Rating, Add</i>	7,775.53	
			<i>For Class 55 Rating, Add</i>	11,581.33	
			<i>For Class 56 Rating, Add</i>	15,335.59	
40 05 19 00-2526	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,233.54	2,330.85
			<i>For Class 52 Rating, Deduct</i>	-5,797.21	
			<i>For Class 54 Rating, Add</i>	7,947.67	
			<i>For Class 55 Rating, Add</i>	11,837.29	
			<i>For Class 56 Rating, Add</i>	15,674.21	
40 05 19 00-2527	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,387.00	2,335.06
			<i>For Class 52 Rating, Deduct</i>	-5,923.39	
			<i>For Class 54 Rating, Add</i>	8,119.81	
			<i>For Class 55 Rating, Add</i>	12,093.25	
			<i>For Class 56 Rating, Add</i>	16,012.83	

40 05 19 00-2528 42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2060)

40 05 19 00-2529	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,994.16	2,763.42
			<i>For Class 52 Rating, Deduct</i>	-2,178.79	
			<i>For Class 54 Rating, Add</i>	3,021.32	
			<i>For Class 55 Rating, Add</i>	4,517.48	
			<i>For Class 56 Rating, Add</i>	5,993.84	
40 05 19 00-2530	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,687.44	2,767.63
			<i>For Class 52 Rating, Deduct</i>	-2,364.35	
			<i>For Class 54 Rating, Add</i>	3,274.43	
			<i>For Class 55 Rating, Add</i>	4,893.82	
			<i>For Class 56 Rating, Add</i>	6,491.71	
40 05 19 00-2531	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,366.65	2,771.82
			<i>For Class 52 Rating, Deduct</i>	-2,548.36	
			<i>For Class 54 Rating, Add</i>	3,525.43	
			<i>For Class 55 Rating, Add</i>	5,267.02	
			<i>For Class 56 Rating, Add</i>	6,985.43	
40 05 19 00-2532	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,062.74	2,776.03
			<i>For Class 52 Rating, Deduct</i>	-2,734.23	
			<i>For Class 54 Rating, Add</i>	3,778.97	
			<i>For Class 55 Rating, Add</i>	5,643.98	
			<i>For Class 56 Rating, Add</i>	7,484.13	
40 05 19 00-2533	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,747.59	2,780.22
			<i>For Class 52 Rating, Deduct</i>	-2,918.86	
			<i>For Class 54 Rating, Add</i>	4,030.82	
			<i>For Class 55 Rating, Add</i>	6,018.43	
			<i>For Class 56 Rating, Add</i>	7,979.51	
40 05 19 00-2534	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,449.29	2,784.42
			<i>For Class 52 Rating, Deduct</i>	-3,105.35	
			<i>For Class 54 Rating, Add</i>	4,285.20	
			<i>For Class 55 Rating, Add</i>	6,396.65	
			<i>For Class 56 Rating, Add</i>	8,479.87	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2535 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,134.13	2,788.62
<i>For Class 52 Rating, Deduct</i>	-3,289.98	
<i>For Class 54 Rating, Add</i>	4,537.04	
<i>For Class 55 Rating, Add</i>	6,771.10	
<i>For Class 56 Rating, Add</i>	8,975.25	
40 05 19 00-2536 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,838.66	2,792.82
<i>For Class 52 Rating, Deduct</i>	-3,476.78	
<i>For Class 54 Rating, Add</i>	4,791.85	
<i>For Class 55 Rating, Add</i>	7,149.94	
<i>For Class 56 Rating, Add</i>	9,476.43	
40 05 19 00-2537 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,529.12	2,797.02
<i>For Class 52 Rating, Deduct</i>	-3,662.03	
<i>For Class 54 Rating, Add</i>	5,044.54	
<i>For Class 55 Rating, Add</i>	7,525.65	
<i>For Class 56 Rating, Add</i>	9,973.47	
40 05 19 00-2538 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,233.65	2,801.22
<i>For Class 52 Rating, Deduct</i>	-3,848.83	
<i>For Class 54 Rating, Add</i>	5,299.34	
<i>For Class 55 Rating, Add</i>	7,904.49	
<i>For Class 56 Rating, Add</i>	10,474.66	
40 05 19 00-2539 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,924.11	2,805.43
<i>For Class 52 Rating, Deduct</i>	-4,034.08	
<i>For Class 54 Rating, Add</i>	5,552.03	
<i>For Class 55 Rating, Add</i>	8,280.20	
<i>For Class 56 Rating, Add</i>	10,971.70	
40 05 19 00-2540 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,631.44	2,809.62
<i>For Class 52 Rating, Deduct</i>	-4,221.19	
<i>For Class 54 Rating, Add</i>	5,807.25	
<i>For Class 55 Rating, Add</i>	8,659.67	
<i>For Class 56 Rating, Add</i>	11,473.71	
40 05 19 00-2541 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,321.91	2,813.83
<i>For Class 52 Rating, Deduct</i>	-4,406.44	
<i>For Class 54 Rating, Add</i>	6,059.94	
<i>For Class 55 Rating, Add</i>	9,035.38	
<i>For Class 56 Rating, Add</i>	11,970.75	
40 05 19 00-2542 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,017.99	2,818.02
<i>For Class 52 Rating, Deduct</i>	-4,592.31	
<i>For Class 54 Rating, Add</i>	6,313.48	
<i>For Class 55 Rating, Add</i>	9,412.34	
<i>For Class 56 Rating, Add</i>	12,469.45	
40 05 19 00-2543 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,722.51	2,822.22
<i>For Class 52 Rating, Deduct</i>	-4,779.11	
<i>For Class 54 Rating, Add</i>	6,568.28	
<i>For Class 55 Rating, Add</i>	9,791.18	
<i>For Class 56 Rating, Add</i>	12,970.63	
40 05 19 00-2544 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,415.79	2,826.42
<i>For Class 52 Rating, Deduct</i>	-4,964.67	
<i>For Class 54 Rating, Add</i>	6,821.39	
<i>For Class 55 Rating, Add</i>	10,167.51	
<i>For Class 56 Rating, Add</i>	13,468.50	
40 05 19 00-2545 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,128.74	2,830.62
<i>For Class 52 Rating, Deduct</i>	-5,152.39	
<i>For Class 54 Rating, Add</i>	7,077.45	
<i>For Class 55 Rating, Add</i>	10,548.23	
<i>For Class 56 Rating, Add</i>	13,972.17	
40 05 19 00-2546 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,824.83	2,834.82
<i>For Class 52 Rating, Deduct</i>	-5,338.26	
<i>For Class 54 Rating, Add</i>	7,330.99	
<i>For Class 55 Rating, Add</i>	10,925.20	
<i>For Class 56 Rating, Add</i>	14,470.87	
40 05 19 00-2547 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,534.98	2,839.02
<i>For Class 52 Rating, Deduct</i>	-5,525.68	
<i>For Class 54 Rating, Add</i>	7,586.63	
<i>For Class 55 Rating, Add</i>	11,305.29	
<i>For Class 56 Rating, Add</i>	14,973.72	
40 05 19 00-2548 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,228.25	2,843.22
<i>For Class 52 Rating, Deduct</i>	-5,711.24	
<i>For Class 54 Rating, Add</i>	7,839.75	
<i>For Class 55 Rating, Add</i>	11,681.63	
<i>For Class 56 Rating, Add</i>	15,471.59	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2549	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		57,944.01	2,847.42
		<i>For Class 52 Rating, Deduct</i>		-5,899.27	
		<i>For Class 54 Rating, Add</i>		8,096.23	
		<i>For Class 55 Rating, Add</i>		12,062.97	
		<i>For Class 56 Rating, Add</i>		15,976.09	
40 05 19 00-2550	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		59,640.11	2,851.62
		<i>For Class 52 Rating, Deduct</i>		-6,085.14	
		<i>For Class 54 Rating, Add</i>		8,349.77	
		<i>For Class 55 Rating, Add</i>		12,439.94	
		<i>For Class 56 Rating, Add</i>		16,474.79	
40 05 19 00-2551	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		61,350.25	2,855.82
		<i>For Class 52 Rating, Deduct</i>		-6,272.56	
		<i>For Class 54 Rating, Add</i>		8,605.41	
		<i>For Class 55 Rating, Add</i>		12,820.03	
		<i>For Class 56 Rating, Add</i>		16,977.63	
40 05 19 00-2552	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		63,046.33	2,860.02
		<i>For Class 52 Rating, Deduct</i>		-6,458.43	
		<i>For Class 54 Rating, Add</i>		8,858.95	
		<i>For Class 55 Rating, Add</i>		13,196.99	
		<i>For Class 56 Rating, Add</i>		17,476.33	
40 05 19 00-2553	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		64,762.11	2,864.22
		<i>For Class 52 Rating, Deduct</i>		-6,646.46	
		<i>For Class 54 Rating, Add</i>		9,115.43	
		<i>For Class 55 Rating, Add</i>		13,578.34	
		<i>For Class 56 Rating, Add</i>		17,980.83	
40 05 19 00-2554	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		66,458.19	2,868.42
		<i>For Class 52 Rating, Deduct</i>		-6,832.33	
		<i>For Class 54 Rating, Add</i>		9,368.97	
		<i>For Class 55 Rating, Add</i>		13,955.30	
		<i>For Class 56 Rating, Add</i>		18,479.53	
40 05 19 00-2555	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		68,168.33	2,872.62
		<i>For Class 52 Rating, Deduct</i>		-7,019.75	
		<i>For Class 54 Rating, Add</i>		9,624.61	
		<i>For Class 55 Rating, Add</i>		14,335.40	
		<i>For Class 56 Rating, Add</i>		18,982.37	
40 05 19 00-2556	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		69,867.24	2,876.82
		<i>For Class 52 Rating, Deduct</i>		-7,205.93	
		<i>For Class 54 Rating, Add</i>		9,878.57	
		<i>For Class 55 Rating, Add</i>		14,712.99	
		<i>For Class 56 Rating, Add</i>		19,481.90	
40 05 19 00-2557	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		71,242.81	2,881.01
		<i>For Class 52 Rating, Deduct</i>		-7,356.54	
		<i>For Class 54 Rating, Add</i>		10,084.03	
		<i>For Class 55 Rating, Add</i>		15,018.48	
		<i>For Class 56 Rating, Add</i>		19,886.05	
40 05 19 00-2558	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		73,279.08	2,885.22
		<i>For Class 52 Rating, Deduct</i>		-7,579.83	
		<i>For Class 54 Rating, Add</i>		10,388.59	
		<i>For Class 55 Rating, Add</i>		15,471.30	
		<i>For Class 56 Rating, Add</i>		20,485.10	
40 05 19 00-2559	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		74,975.18	2,889.41
		<i>For Class 52 Rating, Deduct</i>		-7,765.70	
		<i>For Class 54 Rating, Add</i>		10,642.13	
		<i>For Class 55 Rating, Add</i>		15,848.26	
		<i>For Class 56 Rating, Add</i>		20,983.80	
40 05 19 00-2560	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		76,688.13	2,893.62
		<i>For Class 52 Rating, Deduct</i>		-7,953.42	
		<i>For Class 54 Rating, Add</i>		10,898.19	
		<i>For Class 55 Rating, Add</i>		16,228.98	
		<i>For Class 56 Rating, Add</i>		21,487.47	
40 05 19 00-2561	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		78,387.03	2,897.82
		<i>For Class 52 Rating, Deduct</i>		-8,139.60	
		<i>For Class 54 Rating, Add</i>		11,152.15	
		<i>For Class 55 Rating, Add</i>		16,606.57	
		<i>For Class 56 Rating, Add</i>		21,987.00	
40 05 19 00-2562	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		80,102.80	2,902.02
		<i>For Class 52 Rating, Deduct</i>		-8,327.64	
		<i>For Class 54 Rating, Add</i>		11,408.63	
		<i>For Class 55 Rating, Add</i>		16,987.92	
		<i>For Class 56 Rating, Add</i>		22,491.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2563 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	81,796.06	2,906.22
For Class 52 Rating, Deduct	-8,513.20	
For Class 54 Rating, Add	11,661.75	
For Class 55 Rating, Add	17,364.25	
For Class 56 Rating, Add	22,989.37	
40 05 19 00-2564 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
40 05 19 00-2565 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,096.55	3,473.18
For Class 52 Rating, Deduct	-2,731.76	
For Class 54 Rating, Add	3,788.27	
For Class 55 Rating, Add	5,664.32	
For Class 56 Rating, Add	7,515.52	
40 05 19 00-2566 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,515.19	3,477.38
For Class 52 Rating, Deduct	-2,997.11	
For Class 54 Rating, Add	4,150.19	
For Class 55 Rating, Add	6,202.41	
For Class 56 Rating, Add	8,227.37	
40 05 19 00-2567 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,939.47	3,481.58
For Class 52 Rating, Deduct	-3,263.08	
For Class 54 Rating, Add	4,512.95	
For Class 55 Rating, Add	6,741.75	
For Class 56 Rating, Add	8,940.89	
40 05 19 00-2568 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,391.85	3,485.78
For Class 52 Rating, Deduct	-3,532.14	
For Class 54 Rating, Add	4,879.93	
For Class 55 Rating, Add	7,287.37	
For Class 56 Rating, Add	9,662.69	
40 05 19 00-2569 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,835.80	3,489.98
For Class 52 Rating, Deduct	-3,800.28	
For Class 54 Rating, Add	5,245.65	
For Class 55 Rating, Add	7,831.10	
For Class 56 Rating, Add	10,382.01	
40 05 19 00-2570 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,285.38	3,494.18
For Class 52 Rating, Deduct	-4,069.03	
For Class 54 Rating, Add	5,612.21	
For Class 55 Rating, Add	8,376.09	
For Class 56 Rating, Add	11,102.99	
40 05 19 00-2571 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,751.82	3,498.37
For Class 52 Rating, Deduct	-4,339.64	
For Class 54 Rating, Add	5,981.29	
For Class 55 Rating, Add	8,924.84	
For Class 56 Rating, Add	11,828.94	
40 05 19 00-2572 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,212.65	3,502.58
For Class 52 Rating, Deduct	-4,609.63	
For Class 54 Rating, Add	6,349.54	
For Class 55 Rating, Add	9,472.34	
For Class 56 Rating, Add	12,553.23	
40 05 19 00-2573 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,670.65	3,506.77
For Class 52 Rating, Deduct	-4,879.31	
For Class 54 Rating, Add	6,717.36	
For Class 55 Rating, Add	10,019.21	
For Class 56 Rating, Add	13,276.70	
40 05 19 00-2574 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,153.96	3,510.98
For Class 52 Rating, Deduct	-5,151.77	
For Class 54 Rating, Add	7,088.98	
For Class 55 Rating, Add	10,571.72	
For Class 56 Rating, Add	14,007.63	
40 05 19 00-2575 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,620.41	3,515.18
For Class 52 Rating, Deduct	-5,422.38	
For Class 54 Rating, Add	7,458.07	
For Class 55 Rating, Add	11,120.47	
For Class 56 Rating, Add	14,733.58	
40 05 19 00-2576 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,106.53	3,519.38
For Class 52 Rating, Deduct	-5,695.16	
For Class 54 Rating, Add	7,830.11	
For Class 55 Rating, Add	11,673.61	
For Class 56 Rating, Add	15,465.34	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2577	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	59,578.59	3,523.58
		<i>For Class 52 Rating, Deduct</i>	-5,966.38	
		<i>For Class 54 Rating, Add</i>	8,200.04	
		<i>For Class 55 Rating, Add</i>	12,223.61	
		<i>For Class 56 Rating, Add</i>	16,192.95	
40 05 19 00-2578	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,053.48	3,527.77
		<i>For Class 52 Rating, Deduct</i>	-6,237.92	
		<i>For Class 54 Rating, Add</i>	8,570.40	
		<i>For Class 55 Rating, Add</i>	12,774.25	
		<i>For Class 56 Rating, Add</i>	16,921.39	
40 05 19 00-2579	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,545.22	3,531.98
		<i>For Class 52 Rating, Deduct</i>	-6,511.31	
		<i>For Class 54 Rating, Add</i>	8,943.28	
		<i>For Class 55 Rating, Add</i>	13,328.64	
		<i>For Class 56 Rating, Add</i>	17,654.81	
40 05 19 00-2580	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	67,025.72	3,536.17
		<i>For Class 52 Rating, Deduct</i>	-6,783.47	
		<i>For Class 54 Rating, Add</i>	9,314.48	
		<i>For Class 55 Rating, Add</i>	13,880.53	
		<i>For Class 56 Rating, Add</i>	18,384.91	
40 05 19 00-2581	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	69,503.42	3,540.38
		<i>For Class 52 Rating, Deduct</i>	-7,055.31	
		<i>For Class 54 Rating, Add</i>	9,685.25	
		<i>For Class 55 Rating, Add</i>	14,431.78	
		<i>For Class 56 Rating, Add</i>	19,114.18	
40 05 19 00-2582	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	72,000.78	3,544.57
		<i>For Class 52 Rating, Deduct</i>	-7,329.32	
		<i>For Class 54 Rating, Add</i>	10,058.98	
		<i>For Class 55 Rating, Add</i>	14,987.43	
		<i>For Class 56 Rating, Add</i>	19,849.25	
40 05 19 00-2583	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	74,484.09	3,548.78
		<i>For Class 52 Rating, Deduct</i>	-7,601.79	
		<i>For Class 54 Rating, Add</i>	10,430.60	
		<i>For Class 55 Rating, Add</i>	15,539.94	
		<i>For Class 56 Rating, Add</i>	20,580.18	
40 05 19 00-2584	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	76,964.60	3,552.97
		<i>For Class 52 Rating, Deduct</i>	-7,873.94	
		<i>For Class 54 Rating, Add</i>	10,801.79	
		<i>For Class 55 Rating, Add</i>	16,091.83	
		<i>For Class 56 Rating, Add</i>	21,310.28	
40 05 19 00-2585	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,464.78	3,557.17
		<i>For Class 52 Rating, Deduct</i>	-8,148.26	
		<i>For Class 54 Rating, Add</i>	11,175.94	
		<i>For Class 55 Rating, Add</i>	16,648.10	
		<i>For Class 56 Rating, Add</i>	22,046.19	
40 05 19 00-2586	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	81,953.71	3,561.38
		<i>For Class 52 Rating, Deduct</i>	-8,421.35	
		<i>For Class 54 Rating, Add</i>	11,548.41	
		<i>For Class 55 Rating, Add</i>	17,201.87	
		<i>For Class 56 Rating, Add</i>	22,778.78	
40 05 19 00-2587	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	84,437.03	3,565.57
		<i>For Class 52 Rating, Deduct</i>	-8,693.81	
		<i>For Class 54 Rating, Add</i>	11,920.02	
		<i>For Class 55 Rating, Add</i>	17,754.38	
		<i>For Class 56 Rating, Add</i>	23,509.70	
40 05 19 00-2588	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	86,940.02	3,569.78
		<i>For Class 52 Rating, Deduct</i>	-8,968.44	
		<i>For Class 54 Rating, Add</i>	12,294.60	
		<i>For Class 55 Rating, Add</i>	18,311.28	
		<i>For Class 56 Rating, Add</i>	24,246.44	
40 05 19 00-2589	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	89,428.95	3,573.97
		<i>For Class 52 Rating, Deduct</i>	-9,241.52	
		<i>For Class 54 Rating, Add</i>	12,667.06	
		<i>For Class 55 Rating, Add</i>	18,865.05	
		<i>For Class 56 Rating, Add</i>	24,979.03	
40 05 19 00-2590	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,915.08	3,578.18
		<i>For Class 52 Rating, Deduct</i>	-9,514.30	
		<i>For Class 54 Rating, Add</i>	13,039.10	
		<i>For Class 55 Rating, Add</i>	19,418.19	
		<i>For Class 56 Rating, Add</i>	25,710.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2591 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	94,420.88	3,582.37
<i>For Class 52 Rating, Deduct</i>	-9,789.23	
<i>For Class 54 Rating, Add</i>	13,414.09	
<i>For Class 55 Rating, Add</i>	19,975.72	
<i>For Class 56 Rating, Add</i>	26,448.35	
40 05 19 00-2592 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	96,912.63	3,586.57
<i>For Class 52 Rating, Deduct</i>	-10,062.63	
<i>For Class 54 Rating, Add</i>	13,786.97	
<i>For Class 55 Rating, Add</i>	20,530.11	
<i>For Class 56 Rating, Add</i>	27,181.77	
40 05 19 00-2593 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	99,111.98	3,590.77
<i>For Class 52 Rating, Deduct</i>	-10,303.86	
<i>For Class 54 Rating, Add</i>	14,116.00	
<i>For Class 55 Rating, Add</i>	21,019.30	
<i>For Class 56 Rating, Add</i>	27,828.93	
40 05 19 00-2594 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	101,910.18	3,594.97
<i>For Class 52 Rating, Deduct</i>	-10,610.96	
<i>For Class 54 Rating, Add</i>	14,534.85	
<i>For Class 55 Rating, Add</i>	21,642.03	
<i>For Class 56 Rating, Add</i>	28,652.75	
40 05 19 00-2595 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	104,399.12	3,599.17
<i>For Class 52 Rating, Deduct</i>	-10,884.04	
<i>For Class 54 Rating, Add</i>	14,907.31	
<i>For Class 55 Rating, Add</i>	22,195.80	
<i>For Class 56 Rating, Add</i>	29,385.34	
40 05 19 00-2596 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	106,910.55	3,603.37
<i>For Class 52 Rating, Deduct</i>	-11,159.60	
<i>For Class 54 Rating, Add</i>	15,283.15	
<i>For Class 55 Rating, Add</i>	22,754.58	
<i>For Class 56 Rating, Add</i>	30,124.56	
40 05 19 00-2597 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	109,399.47	3,607.57
<i>For Class 52 Rating, Deduct</i>	-11,432.68	
<i>For Class 54 Rating, Add</i>	15,655.61	
<i>For Class 55 Rating, Add</i>	23,308.35	
<i>For Class 56 Rating, Add</i>	30,857.15	
40 05 19 00-2598 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	111,888.41	3,611.77
<i>For Class 52 Rating, Deduct</i>	-11,705.76	
<i>For Class 54 Rating, Add</i>	16,028.07	
<i>For Class 55 Rating, Add</i>	23,862.11	
<i>For Class 56 Rating, Add</i>	31,589.73	
40 05 19 00-2599 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	114,402.65	3,615.97
<i>For Class 52 Rating, Deduct</i>	-11,981.63	
<i>For Class 54 Rating, Add</i>	16,404.33	
<i>For Class 55 Rating, Add</i>	24,421.52	
<i>For Class 56 Rating, Add</i>	32,329.79	
40 05 19 00-2600 Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
40 05 19 00-2601 4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2602 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	794.44	192.19
<i>For Class 52 Rating, Deduct</i>	-55.36	
<i>For Class 54 Rating, Add</i>	78.98	
<i>For Class 55 Rating, Add</i>	119.22	
<i>For Class 56 Rating, Add</i>	158.94	
40 05 19 00-2603 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	906.37	195.54
<i>For Class 52 Rating, Deduct</i>	-67.11	
<i>For Class 54 Rating, Add</i>	95.07	
<i>For Class 55 Rating, Add</i>	143.16	
<i>For Class 56 Rating, Add</i>	190.65	
40 05 19 00-2604 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,018.31	198.90
<i>For Class 52 Rating, Deduct</i>	-78.86	
<i>For Class 54 Rating, Add</i>	111.16	
<i>For Class 55 Rating, Add</i>	167.11	
<i>For Class 56 Rating, Add</i>	222.35	
40 05 19 00-2605 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,130.23	202.26
<i>For Class 52 Rating, Deduct</i>	-90.62	
<i>For Class 54 Rating, Add</i>	127.24	
<i>For Class 55 Rating, Add</i>	191.06	
<i>For Class 56 Rating, Add</i>	254.05	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2606	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,242.15	205.62
		<i>For Class 52 Rating, Deduct</i>		-102.37	
		<i>For Class 54 Rating, Add</i>		143.33	
		<i>For Class 55 Rating, Add</i>		215.00	
		<i>For Class 56 Rating, Add</i>		285.75	
40 05 19 00-2607	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,354.08	208.98
		<i>For Class 52 Rating, Deduct</i>		-114.12	
		<i>For Class 54 Rating, Add</i>		159.42	
		<i>For Class 55 Rating, Add</i>		238.95	
		<i>For Class 56 Rating, Add</i>		317.45	
40 05 19 00-2608	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,466.02	212.34
		<i>For Class 52 Rating, Deduct</i>		-125.87	
		<i>For Class 54 Rating, Add</i>		175.50	
		<i>For Class 55 Rating, Add</i>		262.90	
		<i>For Class 56 Rating, Add</i>		349.15	
40 05 19 00-2609	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,577.95	215.70
		<i>For Class 52 Rating, Deduct</i>		-137.62	
		<i>For Class 54 Rating, Add</i>		191.59	
		<i>For Class 55 Rating, Add</i>		286.85	
		<i>For Class 56 Rating, Add</i>		380.85	
40 05 19 00-2610	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,689.86	219.06
		<i>For Class 52 Rating, Deduct</i>		-149.38	
		<i>For Class 54 Rating, Add</i>		207.68	
		<i>For Class 55 Rating, Add</i>		310.79	
		<i>For Class 56 Rating, Add</i>		412.55	
40 05 19 00-2611	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,801.80	222.42
		<i>For Class 52 Rating, Deduct</i>		-161.13	
		<i>For Class 54 Rating, Add</i>		223.76	
		<i>For Class 55 Rating, Add</i>		334.74	
		<i>For Class 56 Rating, Add</i>		444.25	
40 05 19 00-2612	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,913.73	225.78
		<i>For Class 52 Rating, Deduct</i>		-172.88	
		<i>For Class 54 Rating, Add</i>		239.85	
		<i>For Class 55 Rating, Add</i>		358.69	
		<i>For Class 56 Rating, Add</i>		475.95	
40 05 19 00-2613	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,025.66	229.14
		<i>For Class 52 Rating, Deduct</i>		-184.63	
		<i>For Class 54 Rating, Add</i>		255.94	
		<i>For Class 55 Rating, Add</i>		382.63	
		<i>For Class 56 Rating, Add</i>		507.65	
40 05 19 00-2614	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,137.58	232.50
		<i>For Class 52 Rating, Deduct</i>		-196.39	
		<i>For Class 54 Rating, Add</i>		272.03	
		<i>For Class 55 Rating, Add</i>		406.58	
		<i>For Class 56 Rating, Add</i>		539.35	
40 05 19 00-2615	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,249.51	235.85
		<i>For Class 52 Rating, Deduct</i>		-208.14	
		<i>For Class 54 Rating, Add</i>		288.11	
		<i>For Class 55 Rating, Add</i>		430.53	
		<i>For Class 56 Rating, Add</i>		571.05	
40 05 19 00-2616	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,361.44	239.22
		<i>For Class 52 Rating, Deduct</i>		-219.89	
		<i>For Class 54 Rating, Add</i>		304.20	
		<i>For Class 55 Rating, Add</i>		454.47	
		<i>For Class 56 Rating, Add</i>		602.75	
40 05 19 00-2617	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,473.37	242.58
		<i>For Class 52 Rating, Deduct</i>		-231.64	
		<i>For Class 54 Rating, Add</i>		320.28	
		<i>For Class 55 Rating, Add</i>		478.42	
		<i>For Class 56 Rating, Add</i>		634.45	
40 05 19 00-2618	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,585.31	245.94
		<i>For Class 52 Rating, Deduct</i>		-243.39	
		<i>For Class 54 Rating, Add</i>		336.37	
		<i>For Class 55 Rating, Add</i>		502.37	
		<i>For Class 56 Rating, Add</i>		666.15	
40 05 19 00-2619	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,697.22	249.30
		<i>For Class 52 Rating, Deduct</i>		-255.15	
		<i>For Class 54 Rating, Add</i>		352.46	
		<i>For Class 55 Rating, Add</i>		526.31	
		<i>For Class 56 Rating, Add</i>		697.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2620 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,809.15	252.66
<i>For Class 52 Rating, Deduct</i>	-266.90	
<i>For Class 54 Rating, Add</i>	368.54	
<i>For Class 55 Rating, Add</i>	550.26	
<i>For Class 56 Rating, Add</i>	729.55	
40 05 19 00-2621 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,921.08	256.01
<i>For Class 52 Rating, Deduct</i>	-278.65	
<i>For Class 54 Rating, Add</i>	384.63	
<i>For Class 55 Rating, Add</i>	574.21	
<i>For Class 56 Rating, Add</i>	761.25	
40 05 19 00-2622 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,033.02	259.37
<i>For Class 52 Rating, Deduct</i>	-290.40	
<i>For Class 54 Rating, Add</i>	400.72	
<i>For Class 55 Rating, Add</i>	598.16	
<i>For Class 56 Rating, Add</i>	792.95	
40 05 19 00-2623 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,144.94	262.74
<i>For Class 52 Rating, Deduct</i>	-302.15	
<i>For Class 54 Rating, Add</i>	416.81	
<i>For Class 55 Rating, Add</i>	622.10	
<i>For Class 56 Rating, Add</i>	824.65	
40 05 19 00-2624 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,256.86	266.10
<i>For Class 52 Rating, Deduct</i>	-313.91	
<i>For Class 54 Rating, Add</i>	432.89	
<i>For Class 55 Rating, Add</i>	646.05	
<i>For Class 56 Rating, Add</i>	856.35	
40 05 19 00-2625 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,368.79	269.46
<i>For Class 52 Rating, Deduct</i>	-325.66	
<i>For Class 54 Rating, Add</i>	448.98	
<i>For Class 55 Rating, Add</i>	670.00	
<i>For Class 56 Rating, Add</i>	888.05	
40 05 19 00-2626 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,480.73	272.82
<i>For Class 52 Rating, Deduct</i>	-337.41	
<i>For Class 54 Rating, Add</i>	465.07	
<i>For Class 55 Rating, Add</i>	693.94	
<i>For Class 56 Rating, Add</i>	919.76	
40 05 19 00-2627 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,592.66	276.18
<i>For Class 52 Rating, Deduct</i>	-349.16	
<i>For Class 54 Rating, Add</i>	481.15	
<i>For Class 55 Rating, Add</i>	717.89	
<i>For Class 56 Rating, Add</i>	951.46	
40 05 19 00-2628 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,704.57	279.53
<i>For Class 52 Rating, Deduct</i>	-360.91	
<i>For Class 54 Rating, Add</i>	497.24	
<i>For Class 55 Rating, Add</i>	741.84	
<i>For Class 56 Rating, Add</i>	983.15	
40 05 19 00-2629 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,816.51	282.89
<i>For Class 52 Rating, Deduct</i>	-372.67	
<i>For Class 54 Rating, Add</i>	513.33	
<i>For Class 55 Rating, Add</i>	765.78	
<i>For Class 56 Rating, Add</i>	1,014.86	
40 05 19 00-2630 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,928.44	286.26
<i>For Class 52 Rating, Deduct</i>	-384.42	
<i>For Class 54 Rating, Add</i>	529.41	
<i>For Class 55 Rating, Add</i>	789.73	
<i>For Class 56 Rating, Add</i>	1,046.56	
40 05 19 00-2631 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,040.37	289.62
<i>For Class 52 Rating, Deduct</i>	-396.17	
<i>For Class 54 Rating, Add</i>	545.50	
<i>For Class 55 Rating, Add</i>	813.68	
<i>For Class 56 Rating, Add</i>	1,078.26	
40 05 19 00-2632 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,152.28	292.98
<i>For Class 52 Rating, Deduct</i>	-407.92	
<i>For Class 54 Rating, Add</i>	561.59	
<i>For Class 55 Rating, Add</i>	837.62	
<i>For Class 56 Rating, Add</i>	1,109.96	
40 05 19 00-2633 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,264.22	296.34
<i>For Class 52 Rating, Deduct</i>	-419.68	
<i>For Class 54 Rating, Add</i>	577.67	
<i>For Class 55 Rating, Add</i>	861.57	
<i>For Class 56 Rating, Add</i>	1,141.66	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2634	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,376.15	299.69
		<i>For Class 52 Rating, Deduct</i>		-431.43	
		<i>For Class 54 Rating, Add</i>		593.76	
		<i>For Class 55 Rating, Add</i>		885.52	
		<i>For Class 56 Rating, Add</i>		1,173.36	
40 05 19 00-2635	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,488.08	303.05
		<i>For Class 52 Rating, Deduct</i>		-443.18	
		<i>For Class 54 Rating, Add</i>		609.85	
		<i>For Class 55 Rating, Add</i>		909.47	
		<i>For Class 56 Rating, Add</i>		1,205.06	
40 05 19 00-2636	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,600.02	306.41
		<i>For Class 52 Rating, Deduct</i>		-454.93	
		<i>For Class 54 Rating, Add</i>		625.93	
		<i>For Class 55 Rating, Add</i>		933.41	
		<i>For Class 56 Rating, Add</i>		1,236.76	
40 05 19 00-2637	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,711.93	309.78
		<i>For Class 52 Rating, Deduct</i>		-466.68	
		<i>For Class 54 Rating, Add</i>		642.02	
		<i>For Class 55 Rating, Add</i>		957.36	
		<i>For Class 56 Rating, Add</i>		1,268.46	
40 05 19 00-2638	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,823.86	313.14
		<i>For Class 52 Rating, Deduct</i>		-478.44	
		<i>For Class 54 Rating, Add</i>		658.11	
		<i>For Class 55 Rating, Add</i>		981.31	
		<i>For Class 56 Rating, Add</i>		1,300.16	
40 05 19 00-2639	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,907.67	316.50
		<i>For Class 52 Rating, Deduct</i>		-487.10	
		<i>For Class 54 Rating, Add</i>		669.98	
		<i>For Class 55 Rating, Add</i>		998.98	
		<i>For Class 56 Rating, Add</i>		1,323.56	
40 05 19 00-2640	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	5,047.73	319.85
		<i>For Class 52 Rating, Deduct</i>		-501.94	
		<i>For Class 54 Rating, Add</i>		690.28	
		<i>For Class 55 Rating, Add</i>		1,029.20	
		<i>For Class 56 Rating, Add</i>		1,363.56	

40 05 19 00-2641 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

40 05 19 00-2642	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,027.23	241.90
		<i>For Class 52 Rating, Deduct</i>		-72.68	
		<i>For Class 54 Rating, Add</i>		103.50	
		<i>For Class 55 Rating, Add</i>		156.13	
		<i>For Class 56 Rating, Add</i>		208.10	
40 05 19 00-2643	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,156.02	245.26
		<i>For Class 52 Rating, Deduct</i>		-86.29	
		<i>For Class 54 Rating, Add</i>		122.12	
		<i>For Class 55 Rating, Add</i>		183.84	
		<i>For Class 56 Rating, Add</i>		244.78	
40 05 19 00-2644	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,284.83	248.63
		<i>For Class 52 Rating, Deduct</i>		-99.89	
		<i>For Class 54 Rating, Add</i>		140.74	
		<i>For Class 55 Rating, Add</i>		211.55	
		<i>For Class 56 Rating, Add</i>		281.46	
40 05 19 00-2645	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,413.63	251.99
		<i>For Class 52 Rating, Deduct</i>		-113.50	
		<i>For Class 54 Rating, Add</i>		159.36	
		<i>For Class 55 Rating, Add</i>		239.26	
		<i>For Class 56 Rating, Add</i>		318.13	
40 05 19 00-2646	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,542.41	255.34
		<i>For Class 52 Rating, Deduct</i>		-127.11	
		<i>For Class 54 Rating, Add</i>		177.97	
		<i>For Class 55 Rating, Add</i>		266.97	
		<i>For Class 56 Rating, Add</i>		354.81	
40 05 19 00-2647	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	1,671.21	258.70
		<i>For Class 52 Rating, Deduct</i>		-140.72	
		<i>For Class 54 Rating, Add</i>		196.59	
		<i>For Class 55 Rating, Add</i>		294.68	
		<i>For Class 56 Rating, Add</i>		391.49	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2648 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,800.02	262.06
<i>For Class 52 Rating, Deduct</i>	-154.32	
<i>For Class 54 Rating, Add</i>	215.21	
<i>For Class 55 Rating, Add</i>	322.39	
<i>For Class 56 Rating, Add</i>	428.16	
40 05 19 00-2649 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,928.82	265.42
<i>For Class 52 Rating, Deduct</i>	-167.93	
<i>For Class 54 Rating, Add</i>	233.82	
<i>For Class 55 Rating, Add</i>	350.10	
<i>For Class 56 Rating, Add</i>	464.84	
40 05 19 00-2650 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,057.60	268.78
<i>For Class 52 Rating, Deduct</i>	-181.54	
<i>For Class 54 Rating, Add</i>	252.44	
<i>For Class 55 Rating, Add</i>	377.80	
<i>For Class 56 Rating, Add</i>	501.52	
40 05 19 00-2651 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,186.40	272.15
<i>For Class 52 Rating, Deduct</i>	-195.15	
<i>For Class 54 Rating, Add</i>	271.06	
<i>For Class 55 Rating, Add</i>	405.51	
<i>For Class 56 Rating, Add</i>	538.19	
40 05 19 00-2652 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,315.21	275.50
<i>For Class 52 Rating, Deduct</i>	-208.76	
<i>For Class 54 Rating, Add</i>	289.68	
<i>For Class 55 Rating, Add</i>	433.22	
<i>For Class 56 Rating, Add</i>	574.87	
40 05 19 00-2653 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,444.00	278.86
<i>For Class 52 Rating, Deduct</i>	-222.36	
<i>For Class 54 Rating, Add</i>	308.29	
<i>For Class 55 Rating, Add</i>	460.93	
<i>For Class 56 Rating, Add</i>	611.55	
40 05 19 00-2654 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,572.80	282.22
<i>For Class 52 Rating, Deduct</i>	-235.97	
<i>For Class 54 Rating, Add</i>	326.91	
<i>For Class 55 Rating, Add</i>	488.64	
<i>For Class 56 Rating, Add</i>	648.23	
40 05 19 00-2655 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,701.60	285.58
<i>For Class 52 Rating, Deduct</i>	-249.58	
<i>For Class 54 Rating, Add</i>	345.53	
<i>For Class 55 Rating, Add</i>	516.35	
<i>For Class 56 Rating, Add</i>	684.90	
40 05 19 00-2656 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,830.39	288.94
<i>For Class 52 Rating, Deduct</i>	-263.19	
<i>For Class 54 Rating, Add</i>	364.14	
<i>For Class 55 Rating, Add</i>	544.06	
<i>For Class 56 Rating, Add</i>	721.58	
40 05 19 00-2657 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,959.19	292.30
<i>For Class 52 Rating, Deduct</i>	-276.79	
<i>For Class 54 Rating, Add</i>	382.76	
<i>For Class 55 Rating, Add</i>	571.77	
<i>For Class 56 Rating, Add</i>	758.26	
40 05 19 00-2658 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,087.99	295.67
<i>For Class 52 Rating, Deduct</i>	-290.40	
<i>For Class 54 Rating, Add</i>	401.38	
<i>For Class 55 Rating, Add</i>	599.48	
<i>For Class 56 Rating, Add</i>	794.93	
40 05 19 00-2659 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,216.79	299.02
<i>For Class 52 Rating, Deduct</i>	-304.01	
<i>For Class 54 Rating, Add</i>	419.99	
<i>For Class 55 Rating, Add</i>	627.18	
<i>For Class 56 Rating, Add</i>	831.61	
40 05 19 00-2660 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,345.58	302.38
<i>For Class 52 Rating, Deduct</i>	-317.62	
<i>For Class 54 Rating, Add</i>	438.61	
<i>For Class 55 Rating, Add</i>	654.89	
<i>For Class 56 Rating, Add</i>	868.29	
40 05 19 00-2661 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,474.38	305.74
<i>For Class 52 Rating, Deduct</i>	-331.23	
<i>For Class 54 Rating, Add</i>	457.23	
<i>For Class 55 Rating, Add</i>	682.60	
<i>For Class 56 Rating, Add</i>	904.96	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2662	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,603.18		309.10
		<i>For Class 52 Rating, Deduct</i>	-344.83		
		<i>For Class 54 Rating, Add</i>	475.85		
		<i>For Class 55 Rating, Add</i>	710.31		
		<i>For Class 56 Rating, Add</i>	941.64		
40 05 19 00-2663	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,731.98		312.46
		<i>For Class 52 Rating, Deduct</i>	-358.44		
		<i>For Class 54 Rating, Add</i>	494.46		
		<i>For Class 55 Rating, Add</i>	738.02		
		<i>For Class 56 Rating, Add</i>	978.32		
40 05 19 00-2664	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,860.77		315.82
		<i>For Class 52 Rating, Deduct</i>	-372.05		
		<i>For Class 54 Rating, Add</i>	513.08		
		<i>For Class 55 Rating, Add</i>	765.73		
		<i>For Class 56 Rating, Add</i>	1,014.99		
40 05 19 00-2665	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,989.57		319.18
		<i>For Class 52 Rating, Deduct</i>	-385.66		
		<i>For Class 54 Rating, Add</i>	531.70		
		<i>For Class 55 Rating, Add</i>	793.44		
		<i>For Class 56 Rating, Add</i>	1,051.67		
40 05 19 00-2666	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,118.37		322.54
		<i>For Class 52 Rating, Deduct</i>	-399.26		
		<i>For Class 54 Rating, Add</i>	550.31		
		<i>For Class 55 Rating, Add</i>	821.15		
		<i>For Class 56 Rating, Add</i>	1,088.35		
40 05 19 00-2667	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,247.17		325.90
		<i>For Class 52 Rating, Deduct</i>	-412.87		
		<i>For Class 54 Rating, Add</i>	568.93		
		<i>For Class 55 Rating, Add</i>	848.85		
		<i>For Class 56 Rating, Add</i>	1,125.02		
40 05 19 00-2668	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,375.97		329.26
		<i>For Class 52 Rating, Deduct</i>	-426.48		
		<i>For Class 54 Rating, Add</i>	587.55		
		<i>For Class 55 Rating, Add</i>	876.56		
		<i>For Class 56 Rating, Add</i>	1,161.70		
40 05 19 00-2669	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,504.75		332.62
		<i>For Class 52 Rating, Deduct</i>	-440.09		
		<i>For Class 54 Rating, Add</i>	606.17		
		<i>For Class 55 Rating, Add</i>	904.27		
		<i>For Class 56 Rating, Add</i>	1,198.38		
40 05 19 00-2670	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,633.56		335.98
		<i>For Class 52 Rating, Deduct</i>	-453.70		
		<i>For Class 54 Rating, Add</i>	624.78		
		<i>For Class 55 Rating, Add</i>	931.98		
		<i>For Class 56 Rating, Add</i>	1,235.05		
40 05 19 00-2671	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,762.36		339.33
		<i>For Class 52 Rating, Deduct</i>	-467.30		
		<i>For Class 54 Rating, Add</i>	643.40		
		<i>For Class 55 Rating, Add</i>	959.69		
		<i>For Class 56 Rating, Add</i>	1,271.73		
40 05 19 00-2672	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,891.15		342.70
		<i>For Class 52 Rating, Deduct</i>	-480.91		
		<i>For Class 54 Rating, Add</i>	662.02		
		<i>For Class 55 Rating, Add</i>	987.40		
		<i>For Class 56 Rating, Add</i>	1,308.41		
40 05 19 00-2673	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,019.95		346.06
		<i>For Class 52 Rating, Deduct</i>	-494.52		
		<i>For Class 54 Rating, Add</i>	680.63		
		<i>For Class 55 Rating, Add</i>	1,015.11		
		<i>For Class 56 Rating, Add</i>	1,345.08		
40 05 19 00-2674	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,148.75		349.42
		<i>For Class 52 Rating, Deduct</i>	-508.13		
		<i>For Class 54 Rating, Add</i>	699.25		
		<i>For Class 55 Rating, Add</i>	1,042.82		
		<i>For Class 56 Rating, Add</i>	1,381.76		
40 05 19 00-2675	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,277.54		352.78
		<i>For Class 52 Rating, Deduct</i>	-521.73		
		<i>For Class 54 Rating, Add</i>	717.87		
		<i>For Class 55 Rating, Add</i>	1,070.52		
		<i>For Class 56 Rating, Add</i>	1,418.44		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2676 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,406.34	356.14
<i>For Class 52 Rating, Deduct</i>	-535.34	
<i>For Class 54 Rating, Add</i>	736.49	
<i>For Class 55 Rating, Add</i>	1,098.23	
<i>For Class 56 Rating, Add</i>	1,455.11	
40 05 19 00-2677 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,535.15	359.49
<i>For Class 52 Rating, Deduct</i>	-548.95	
<i>For Class 54 Rating, Add</i>	755.10	
<i>For Class 55 Rating, Add</i>	1,125.94	
<i>For Class 56 Rating, Add</i>	1,491.79	
40 05 19 00-2678 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,663.93	362.85
<i>For Class 52 Rating, Deduct</i>	-562.56	
<i>For Class 54 Rating, Add</i>	773.72	
<i>For Class 55 Rating, Add</i>	1,153.65	
<i>For Class 56 Rating, Add</i>	1,528.47	
40 05 19 00-2679 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,792.73	366.22
<i>For Class 52 Rating, Deduct</i>	-576.16	
<i>For Class 54 Rating, Add</i>	792.34	
<i>For Class 55 Rating, Add</i>	1,181.36	
<i>For Class 56 Rating, Add</i>	1,565.14	
40 05 19 00-2680 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,921.54	369.58
<i>For Class 52 Rating, Deduct</i>	-589.77	
<i>For Class 54 Rating, Add</i>	810.96	
<i>For Class 55 Rating, Add</i>	1,209.07	
<i>For Class 56 Rating, Add</i>	1,601.82	
40 05 19 00-2681 8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2682 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,407.39	309.10
<i>For Class 52 Rating, Deduct</i>	-103.30	
<i>For Class 54 Rating, Add</i>	146.48	
<i>For Class 55 Rating, Add</i>	220.65	
<i>For Class 56 Rating, Add</i>	293.88	
40 05 19 00-2683 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,572.73	312.46
<i>For Class 52 Rating, Deduct</i>	-120.92	
<i>For Class 54 Rating, Add</i>	170.58	
<i>For Class 55 Rating, Add</i>	256.51	
<i>For Class 56 Rating, Add</i>	341.34	
40 05 19 00-2684 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,738.07	315.82
<i>For Class 52 Rating, Deduct</i>	-138.55	
<i>For Class 54 Rating, Add</i>	194.68	
<i>For Class 55 Rating, Add</i>	292.37	
<i>For Class 56 Rating, Add</i>	388.80	
40 05 19 00-2685 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,903.42	319.18
<i>For Class 52 Rating, Deduct</i>	-156.18	
<i>For Class 54 Rating, Add</i>	218.78	
<i>For Class 55 Rating, Add</i>	328.23	
<i>For Class 56 Rating, Add</i>	436.26	
40 05 19 00-2686 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,068.77	322.54
<i>For Class 52 Rating, Deduct</i>	-173.81	
<i>For Class 54 Rating, Add</i>	242.87	
<i>For Class 55 Rating, Add</i>	364.08	
<i>For Class 56 Rating, Add</i>	483.71	
40 05 19 00-2687 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,234.12	325.90
<i>For Class 52 Rating, Deduct</i>	-191.44	
<i>For Class 54 Rating, Add</i>	266.97	
<i>For Class 55 Rating, Add</i>	399.94	
<i>For Class 56 Rating, Add</i>	531.17	
40 05 19 00-2688 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,399.47	329.26
<i>For Class 52 Rating, Deduct</i>	-209.06	
<i>For Class 54 Rating, Add</i>	291.08	
<i>For Class 55 Rating, Add</i>	435.80	
<i>For Class 56 Rating, Add</i>	578.63	
40 05 19 00-2689 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,564.80	332.62
<i>For Class 52 Rating, Deduct</i>	-226.69	
<i>For Class 54 Rating, Add</i>	315.17	
<i>For Class 55 Rating, Add</i>	471.66	
<i>For Class 56 Rating, Add</i>	626.09	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2690	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,730.16	335.98
		<i>For Class 52 Rating, Deduct</i>		-244.32	
		<i>For Class 54 Rating, Add</i>		339.27	
		<i>For Class 55 Rating, Add</i>		507.52	
		<i>For Class 56 Rating, Add</i>		673.55	
40 05 19 00-2691	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	2,895.51	339.33
		<i>For Class 52 Rating, Deduct</i>		-261.95	
		<i>For Class 54 Rating, Add</i>		363.37	
		<i>For Class 55 Rating, Add</i>		543.38	
		<i>For Class 56 Rating, Add</i>		721.01	
40 05 19 00-2692	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,060.85	342.70
		<i>For Class 52 Rating, Deduct</i>		-279.58	
		<i>For Class 54 Rating, Add</i>		387.47	
		<i>For Class 55 Rating, Add</i>		579.24	
		<i>For Class 56 Rating, Add</i>		768.47	
40 05 19 00-2693	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,226.20	346.06
		<i>For Class 52 Rating, Deduct</i>		-297.21	
		<i>For Class 54 Rating, Add</i>		411.57	
		<i>For Class 55 Rating, Add</i>		615.10	
		<i>For Class 56 Rating, Add</i>		815.93	
40 05 19 00-2694	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,391.55	349.42
		<i>For Class 52 Rating, Deduct</i>		-314.83	
		<i>For Class 54 Rating, Add</i>		435.67	
		<i>For Class 55 Rating, Add</i>		650.96	
		<i>For Class 56 Rating, Add</i>		863.39	
40 05 19 00-2695	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,556.89	352.78
		<i>For Class 52 Rating, Deduct</i>		-332.46	
		<i>For Class 54 Rating, Add</i>		459.77	
		<i>For Class 55 Rating, Add</i>		686.82	
		<i>For Class 56 Rating, Add</i>		910.84	
40 05 19 00-2696	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,722.24	356.14
		<i>For Class 52 Rating, Deduct</i>		-350.09	
		<i>For Class 54 Rating, Add</i>		483.87	
		<i>For Class 55 Rating, Add</i>		722.68	
		<i>For Class 56 Rating, Add</i>		958.30	
40 05 19 00-2697	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	3,887.60	359.49
		<i>For Class 52 Rating, Deduct</i>		-367.72	
		<i>For Class 54 Rating, Add</i>		507.97	
		<i>For Class 55 Rating, Add</i>		758.54	
		<i>For Class 56 Rating, Add</i>		1,005.76	
40 05 19 00-2698	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,052.93	362.85
		<i>For Class 52 Rating, Deduct</i>		-385.35	
		<i>For Class 54 Rating, Add</i>		532.07	
		<i>For Class 55 Rating, Add</i>		794.40	
		<i>For Class 56 Rating, Add</i>		1,053.22	
40 05 19 00-2699	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,218.28	366.22
		<i>For Class 52 Rating, Deduct</i>		-402.98	
		<i>For Class 54 Rating, Add</i>		556.17	
		<i>For Class 55 Rating, Add</i>		830.26	
		<i>For Class 56 Rating, Add</i>		1,100.68	
40 05 19 00-2700	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,383.64	369.58
		<i>For Class 52 Rating, Deduct</i>		-420.60	
		<i>For Class 54 Rating, Add</i>		580.27	
		<i>For Class 55 Rating, Add</i>		866.12	
		<i>For Class 56 Rating, Add</i>		1,148.14	
40 05 19 00-2701	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,548.98	372.94
		<i>For Class 52 Rating, Deduct</i>		-438.23	
		<i>For Class 54 Rating, Add</i>		604.37	
		<i>For Class 55 Rating, Add</i>		901.98	
		<i>For Class 56 Rating, Add</i>		1,195.60	
40 05 19 00-2702	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,714.32	376.30
		<i>For Class 52 Rating, Deduct</i>		-455.86	
		<i>For Class 54 Rating, Add</i>		628.47	
		<i>For Class 55 Rating, Add</i>		937.84	
		<i>For Class 56 Rating, Add</i>		1,243.06	
40 05 19 00-2703	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	4,879.67	379.65
		<i>For Class 52 Rating, Deduct</i>		-473.49	
		<i>For Class 54 Rating, Add</i>		652.57	
		<i>For Class 55 Rating, Add</i>		973.70	
		<i>For Class 56 Rating, Add</i>		1,290.52	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2704	EA			8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,045.02	383.01
				<i>For Class 52 Rating, Deduct</i>	-491.12	
				<i>For Class 54 Rating, Add</i>	676.67	
				<i>For Class 55 Rating, Add</i>	1,009.55	
				<i>For Class 56 Rating, Add</i>	1,337.98	
40 05 19 00-2705	EA			8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,210.37	386.37
				<i>For Class 52 Rating, Deduct</i>	-508.74	
				<i>For Class 54 Rating, Add</i>	700.77	
				<i>For Class 55 Rating, Add</i>	1,045.41	
				<i>For Class 56 Rating, Add</i>	1,385.44	
40 05 19 00-2706	EA			8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,375.72	389.74
				<i>For Class 52 Rating, Deduct</i>	-526.37	
				<i>For Class 54 Rating, Add</i>	724.87	
				<i>For Class 55 Rating, Add</i>	1,081.27	
				<i>For Class 56 Rating, Add</i>	1,432.90	
40 05 19 00-2707	EA			8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,541.05	393.10
				<i>For Class 52 Rating, Deduct</i>	-544.00	
				<i>For Class 54 Rating, Add</i>	748.97	
				<i>For Class 55 Rating, Add</i>	1,117.13	
				<i>For Class 56 Rating, Add</i>	1,480.35	
40 05 19 00-2708	EA			8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,706.41	396.46
				<i>For Class 52 Rating, Deduct</i>	-561.63	
				<i>For Class 54 Rating, Add</i>	773.07	
				<i>For Class 55 Rating, Add</i>	1,152.99	
				<i>For Class 56 Rating, Add</i>	1,527.81	
40 05 19 00-2709	EA			8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,871.76	399.81
				<i>For Class 52 Rating, Deduct</i>	-579.26	
				<i>For Class 54 Rating, Add</i>	797.17	
				<i>For Class 55 Rating, Add</i>	1,188.85	
				<i>For Class 56 Rating, Add</i>	1,575.27	
40 05 19 00-2710	EA			8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,037.10	403.17
				<i>For Class 52 Rating, Deduct</i>	-596.89	
				<i>For Class 54 Rating, Add</i>	821.26	
				<i>For Class 55 Rating, Add</i>	1,224.71	
				<i>For Class 56 Rating, Add</i>	1,622.73	
40 05 19 00-2711	EA			8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,202.45	406.53
				<i>For Class 52 Rating, Deduct</i>	-614.51	
				<i>For Class 54 Rating, Add</i>	845.37	
				<i>For Class 55 Rating, Add</i>	1,260.57	
				<i>For Class 56 Rating, Add</i>	1,670.19	
40 05 19 00-2712	EA			8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,367.80	409.89
				<i>For Class 52 Rating, Deduct</i>	-632.14	
				<i>For Class 54 Rating, Add</i>	869.47	
				<i>For Class 55 Rating, Add</i>	1,296.43	
				<i>For Class 56 Rating, Add</i>	1,717.65	
40 05 19 00-2713	EA			8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,533.14	413.26
				<i>For Class 52 Rating, Deduct</i>	-649.77	
				<i>For Class 54 Rating, Add</i>	893.56	
				<i>For Class 55 Rating, Add</i>	1,332.29	
				<i>For Class 56 Rating, Add</i>	1,765.11	
40 05 19 00-2714	EA			8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,698.49	416.62
				<i>For Class 52 Rating, Deduct</i>	-667.40	
				<i>For Class 54 Rating, Add</i>	917.66	
				<i>For Class 55 Rating, Add</i>	1,368.15	
				<i>For Class 56 Rating, Add</i>	1,812.57	
40 05 19 00-2715	EA			8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,863.85	419.97
				<i>For Class 52 Rating, Deduct</i>	-685.03	
				<i>For Class 54 Rating, Add</i>	941.76	
				<i>For Class 55 Rating, Add</i>	1,404.01	
				<i>For Class 56 Rating, Add</i>	1,860.03	
40 05 19 00-2716	EA			8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,029.18	423.33
				<i>For Class 52 Rating, Deduct</i>	-702.65	
				<i>For Class 54 Rating, Add</i>	965.86	
				<i>For Class 55 Rating, Add</i>	1,439.87	
				<i>For Class 56 Rating, Add</i>	1,907.48	
40 05 19 00-2717	EA			8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,194.53	426.69
				<i>For Class 52 Rating, Deduct</i>	-720.28	
				<i>For Class 54 Rating, Add</i>	989.96	
				<i>For Class 55 Rating, Add</i>	1,475.73	
				<i>For Class 56 Rating, Add</i>	1,954.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2718	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,359.89		430.05
		<i>For Class 52 Rating, Deduct</i>	-737.91		
		<i>For Class 54 Rating, Add</i>	1,014.06		
		<i>For Class 55 Rating, Add</i>	1,511.59		
		<i>For Class 56 Rating, Add</i>	2,002.40		
40 05 19 00-2719	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,525.23		433.41
		<i>For Class 52 Rating, Deduct</i>	-755.54		
		<i>For Class 54 Rating, Add</i>	1,038.16		
		<i>For Class 55 Rating, Add</i>	1,547.44		
		<i>For Class 56 Rating, Add</i>	2,049.86		
40 05 19 00-2720	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,690.58		436.78
		<i>For Class 52 Rating, Deduct</i>	-773.17		
		<i>For Class 54 Rating, Add</i>	1,062.26		
		<i>For Class 55 Rating, Add</i>	1,583.31		
		<i>For Class 56 Rating, Add</i>	2,097.32		
40 05 19 00-2721		10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>			
40 05 19 00-2722	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,767.85		376.30
		<i>For Class 52 Rating, Deduct</i>	-131.75		
		<i>For Class 54 Rating, Add</i>	186.50		
		<i>For Class 55 Rating, Add</i>	280.77		
		<i>For Class 56 Rating, Add</i>	373.85		
40 05 19 00-2723	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,980.99		379.65
		<i>For Class 52 Rating, Deduct</i>	-154.63		
		<i>For Class 54 Rating, Add</i>	217.77		
		<i>For Class 55 Rating, Add</i>	327.29		
		<i>For Class 56 Rating, Add</i>	435.41		
40 05 19 00-2724	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,194.14		383.01
		<i>For Class 52 Rating, Deduct</i>	-177.52		
		<i>For Class 54 Rating, Add</i>	249.04		
		<i>For Class 55 Rating, Add</i>	373.81		
		<i>For Class 56 Rating, Add</i>	496.97		
40 05 19 00-2725	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,407.28		386.37
		<i>For Class 52 Rating, Deduct</i>	-200.40		
		<i>For Class 54 Rating, Add</i>	280.30		
		<i>For Class 55 Rating, Add</i>	420.32		
		<i>For Class 56 Rating, Add</i>	558.52		
40 05 19 00-2726	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,620.43		389.74
		<i>For Class 52 Rating, Deduct</i>	-223.29		
		<i>For Class 54 Rating, Add</i>	311.57		
		<i>For Class 55 Rating, Add</i>	466.84		
		<i>For Class 56 Rating, Add</i>	620.08		
40 05 19 00-2727	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,833.56		393.10
		<i>For Class 52 Rating, Deduct</i>	-246.18		
		<i>For Class 54 Rating, Add</i>	342.84		
		<i>For Class 55 Rating, Add</i>	513.36		
		<i>For Class 56 Rating, Add</i>	681.64		
40 05 19 00-2728	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,046.71		396.46
		<i>For Class 52 Rating, Deduct</i>	-269.06		
		<i>For Class 54 Rating, Add</i>	374.11		
		<i>For Class 55 Rating, Add</i>	559.88		
		<i>For Class 56 Rating, Add</i>	743.20		
40 05 19 00-2729	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,259.85		399.81
		<i>For Class 52 Rating, Deduct</i>	-291.95		
		<i>For Class 54 Rating, Add</i>	405.38		
		<i>For Class 55 Rating, Add</i>	606.40		
		<i>For Class 56 Rating, Add</i>	804.76		
40 05 19 00-2730	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,473.00		403.17
		<i>For Class 52 Rating, Deduct</i>	-314.83		
		<i>For Class 54 Rating, Add</i>	436.65		
		<i>For Class 55 Rating, Add</i>	652.92		
		<i>For Class 56 Rating, Add</i>	866.32		
40 05 19 00-2731	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,686.14		406.53
		<i>For Class 52 Rating, Deduct</i>	-337.72		
		<i>For Class 54 Rating, Add</i>	467.92		
		<i>For Class 55 Rating, Add</i>	699.43		
		<i>For Class 56 Rating, Add</i>	927.88		



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2732	EA			10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,899.28	409.89
				For Class 52 Rating, Deduct	-360.61	
				For Class 54 Rating, Add	499.19	
				For Class 55 Rating, Add	745.95	
				For Class 56 Rating, Add	989.44	
40 05 19 00-2733	EA			10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,112.42	413.26
				For Class 52 Rating, Deduct	-383.49	
				For Class 54 Rating, Add	530.46	
				For Class 55 Rating, Add	792.47	
				For Class 56 Rating, Add	1,050.99	
40 05 19 00-2734	EA			10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,325.57	416.62
				For Class 52 Rating, Deduct	-406.38	
				For Class 54 Rating, Add	561.73	
				For Class 55 Rating, Add	838.99	
				For Class 56 Rating, Add	1,112.55	
40 05 19 00-2735	EA			10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,538.72	419.97
				For Class 52 Rating, Deduct	-429.26	
				For Class 54 Rating, Add	592.99	
				For Class 55 Rating, Add	885.50	
				For Class 56 Rating, Add	1,174.11	
40 05 19 00-2736	EA			10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,751.85	423.33
				For Class 52 Rating, Deduct	-452.15	
				For Class 54 Rating, Add	624.26	
				For Class 55 Rating, Add	932.02	
				For Class 56 Rating, Add	1,235.67	
40 05 19 00-2737	EA			10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,964.99	426.69
				For Class 52 Rating, Deduct	-475.03	
				For Class 54 Rating, Add	655.53	
				For Class 55 Rating, Add	978.54	
				For Class 56 Rating, Add	1,297.23	
40 05 19 00-2738	EA			10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,178.15	430.05
				For Class 52 Rating, Deduct	-497.92	
				For Class 54 Rating, Add	686.80	
				For Class 55 Rating, Add	1,025.06	
				For Class 56 Rating, Add	1,358.79	
40 05 19 00-2739	EA			10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,391.29	433.41
				For Class 52 Rating, Deduct	-520.81	
				For Class 54 Rating, Add	718.07	
				For Class 55 Rating, Add	1,071.58	
				For Class 56 Rating, Add	1,420.35	
40 05 19 00-2740	EA			10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,604.43	436.78
				For Class 52 Rating, Deduct	-543.69	
				For Class 54 Rating, Add	749.34	
				For Class 55 Rating, Add	1,118.09	
				For Class 56 Rating, Add	1,481.91	
40 05 19 00-2741	EA			10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,817.56	440.13
				For Class 52 Rating, Deduct	-566.58	
				For Class 54 Rating, Add	780.61	
				For Class 55 Rating, Add	1,164.61	
				For Class 56 Rating, Add	1,543.46	
40 05 19 00-2742	EA			10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,030.72	443.49
				For Class 52 Rating, Deduct	-589.46	
				For Class 54 Rating, Add	811.88	
				For Class 55 Rating, Add	1,211.13	
				For Class 56 Rating, Add	1,605.02	
40 05 19 00-2743	EA			10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,243.86	446.85
				For Class 52 Rating, Deduct	-612.35	
				For Class 54 Rating, Add	843.15	
				For Class 55 Rating, Add	1,257.65	
				For Class 56 Rating, Add	1,666.58	
40 05 19 00-2744	EA			10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,457.00	450.21
				For Class 52 Rating, Deduct	-635.23	
				For Class 54 Rating, Add	874.41	
				For Class 55 Rating, Add	1,304.17	
				For Class 56 Rating, Add	1,728.14	
40 05 19 00-2745	EA			10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,670.13	453.57
				For Class 52 Rating, Deduct	-658.12	
				For Class 54 Rating, Add	905.68	
				For Class 55 Rating, Add	1,350.68	
				For Class 56 Rating, Add	1,789.70	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2746	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,883.29	456.93
		<i>For Class 52 Rating, Deduct</i>		-681.01	
		<i>For Class 54 Rating, Add</i>		936.95	
		<i>For Class 55 Rating, Add</i>		1,397.20	
		<i>For Class 56 Rating, Add</i>		1,851.26	
40 05 19 00-2747	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,096.43	460.29
		<i>For Class 52 Rating, Deduct</i>		-703.89	
		<i>For Class 54 Rating, Add</i>		968.22	
		<i>For Class 55 Rating, Add</i>		1,443.72	
		<i>For Class 56 Rating, Add</i>		1,912.82	
40 05 19 00-2748	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,309.57	463.65
		<i>For Class 52 Rating, Deduct</i>		-726.78	
		<i>For Class 54 Rating, Add</i>		999.49	
		<i>For Class 55 Rating, Add</i>		1,490.24	
		<i>For Class 56 Rating, Add</i>		1,974.38	
40 05 19 00-2749	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,522.72	467.01
		<i>For Class 52 Rating, Deduct</i>		-749.66	
		<i>For Class 54 Rating, Add</i>		1,030.76	
		<i>For Class 55 Rating, Add</i>		1,536.75	
		<i>For Class 56 Rating, Add</i>		2,035.93	
40 05 19 00-2750	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,735.86	470.37
		<i>For Class 52 Rating, Deduct</i>		-772.55	
		<i>For Class 54 Rating, Add</i>		1,062.03	
		<i>For Class 55 Rating, Add</i>		1,583.27	
		<i>For Class 56 Rating, Add</i>		2,097.49	
40 05 19 00-2751	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,949.00	473.73
		<i>For Class 52 Rating, Deduct</i>		-795.44	
		<i>For Class 54 Rating, Add</i>		1,093.30	
		<i>For Class 55 Rating, Add</i>		1,629.79	
		<i>For Class 56 Rating, Add</i>		2,159.05	
40 05 19 00-2752	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,162.14	477.09
		<i>For Class 52 Rating, Deduct</i>		-818.32	
		<i>For Class 54 Rating, Add</i>		1,124.57	
		<i>For Class 55 Rating, Add</i>		1,676.31	
		<i>For Class 56 Rating, Add</i>		2,220.61	
40 05 19 00-2753	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,375.29	480.44
		<i>For Class 52 Rating, Deduct</i>		-841.21	
		<i>For Class 54 Rating, Add</i>		1,155.84	
		<i>For Class 55 Rating, Add</i>		1,722.83	
		<i>For Class 56 Rating, Add</i>		2,282.17	
40 05 19 00-2754	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,588.43	483.81
		<i>For Class 52 Rating, Deduct</i>		-864.09	
		<i>For Class 54 Rating, Add</i>		1,187.10	
		<i>For Class 55 Rating, Add</i>		1,769.34	
		<i>For Class 56 Rating, Add</i>		2,343.73	
40 05 19 00-2755	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,801.57	487.17
		<i>For Class 52 Rating, Deduct</i>		-886.98	
		<i>For Class 54 Rating, Add</i>		1,218.37	
		<i>For Class 55 Rating, Add</i>		1,815.86	
		<i>For Class 56 Rating, Add</i>		2,405.29	
40 05 19 00-2756	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,014.72	490.53
		<i>For Class 52 Rating, Deduct</i>		-909.86	
		<i>For Class 54 Rating, Add</i>		1,249.64	
		<i>For Class 55 Rating, Add</i>		1,862.38	
		<i>For Class 56 Rating, Add</i>		2,466.85	
40 05 19 00-2757	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,227.86	493.89
		<i>For Class 52 Rating, Deduct</i>		-932.75	
		<i>For Class 54 Rating, Add</i>		1,280.91	
		<i>For Class 55 Rating, Add</i>		1,908.90	
		<i>For Class 56 Rating, Add</i>		2,528.40	
40 05 19 00-2758	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,441.01	497.25
		<i>For Class 52 Rating, Deduct</i>		-955.64	
		<i>For Class 54 Rating, Add</i>		1,312.18	
		<i>For Class 55 Rating, Add</i>		1,955.42	
		<i>For Class 56 Rating, Add</i>		2,589.96	
40 05 19 00-2759	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,654.14	500.60
		<i>For Class 52 Rating, Deduct</i>		-978.52	
		<i>For Class 54 Rating, Add</i>		1,343.45	
		<i>For Class 55 Rating, Add</i>		2,001.93	
		<i>For Class 56 Rating, Add</i>		2,651.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2760 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,867.29	503.96
<i>For Class 52 Rating, Deduct</i>	-1,001.41	
<i>For Class 54 Rating, Add</i>	1,374.72	
<i>For Class 55 Rating, Add</i>	2,048.45	
<i>For Class 56 Rating, Add</i>	2,713.08	
40 05 19 00-2761 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2762 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,287.13	470.37
<i>For Class 52 Rating, Deduct</i>	-173.19	
<i>For Class 54 Rating, Add</i>	244.72	
<i>For Class 55 Rating, Add</i>	368.21	
<i>For Class 56 Rating, Add</i>	490.12	
40 05 19 00-2763 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,550.88	473.73
<i>For Class 52 Rating, Deduct</i>	-201.64	
<i>For Class 54 Rating, Add</i>	283.58	
<i>For Class 55 Rating, Add</i>	426.01	
<i>For Class 56 Rating, Add</i>	566.61	
40 05 19 00-2764 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,814.63	477.09
<i>For Class 52 Rating, Deduct</i>	-230.09	
<i>For Class 54 Rating, Add</i>	322.44	
<i>For Class 55 Rating, Add</i>	483.81	
<i>For Class 56 Rating, Add</i>	643.10	
40 05 19 00-2765 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,078.39	480.44
<i>For Class 52 Rating, Deduct</i>	-258.55	
<i>For Class 54 Rating, Add</i>	361.30	
<i>For Class 55 Rating, Add</i>	541.62	
<i>For Class 56 Rating, Add</i>	719.58	
40 05 19 00-2766 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,342.13	483.81
<i>For Class 52 Rating, Deduct</i>	-287.00	
<i>For Class 54 Rating, Add</i>	400.16	
<i>For Class 55 Rating, Add</i>	599.42	
<i>For Class 56 Rating, Add</i>	796.07	
40 05 19 00-2767 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,605.88	487.17
<i>For Class 52 Rating, Deduct</i>	-315.45	
<i>For Class 54 Rating, Add</i>	439.02	
<i>For Class 55 Rating, Add</i>	657.22	
<i>For Class 56 Rating, Add</i>	872.56	
40 05 19 00-2768 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,869.64	490.53
<i>For Class 52 Rating, Deduct</i>	-343.91	
<i>For Class 54 Rating, Add</i>	477.88	
<i>For Class 55 Rating, Add</i>	715.03	
<i>For Class 56 Rating, Add</i>	949.05	
40 05 19 00-2769 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,133.39	493.89
<i>For Class 52 Rating, Deduct</i>	-372.36	
<i>For Class 54 Rating, Add</i>	516.74	
<i>For Class 55 Rating, Add</i>	772.83	
<i>For Class 56 Rating, Add</i>	1,025.54	
40 05 19 00-2770 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,397.14	497.25
<i>For Class 52 Rating, Deduct</i>	-400.81	
<i>For Class 54 Rating, Add</i>	555.60	
<i>For Class 55 Rating, Add</i>	830.63	
<i>For Class 56 Rating, Add</i>	1,102.02	
40 05 19 00-2771 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,660.88	500.60
<i>For Class 52 Rating, Deduct</i>	-429.26	
<i>For Class 54 Rating, Add</i>	594.46	
<i>For Class 55 Rating, Add</i>	888.44	
<i>For Class 56 Rating, Add</i>	1,178.51	
40 05 19 00-2772 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,924.64	503.96
<i>For Class 52 Rating, Deduct</i>	-457.72	
<i>For Class 54 Rating, Add</i>	633.32	
<i>For Class 55 Rating, Add</i>	946.24	
<i>For Class 56 Rating, Add</i>	1,255.00	
40 05 19 00-2773 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,188.39	507.33
<i>For Class 52 Rating, Deduct</i>	-486.17	
<i>For Class 54 Rating, Add</i>	672.18	
<i>For Class 55 Rating, Add</i>	1,004.04	
<i>For Class 56 Rating, Add</i>	1,331.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2774	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,452.14	510.69
		<i>For Class 52 Rating, Deduct</i>		-514.62	
		<i>For Class 54 Rating, Add</i>		711.04	
		<i>For Class 55 Rating, Add</i>		1,061.85	
		<i>For Class 56 Rating, Add</i>		1,407.97	
40 05 19 00-2775	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,715.88	514.05
		<i>For Class 52 Rating, Deduct</i>		-543.07	
		<i>For Class 54 Rating, Add</i>		749.90	
		<i>For Class 55 Rating, Add</i>		1,119.65	
		<i>For Class 56 Rating, Add</i>		1,484.46	
40 05 19 00-2776	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,979.64	517.41
		<i>For Class 52 Rating, Deduct</i>		-571.53	
		<i>For Class 54 Rating, Add</i>		788.76	
		<i>For Class 55 Rating, Add</i>		1,177.45	
		<i>For Class 56 Rating, Add</i>		1,560.95	
40 05 19 00-2777	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,243.39	520.76
		<i>For Class 52 Rating, Deduct</i>		-599.98	
		<i>For Class 54 Rating, Add</i>		827.62	
		<i>For Class 55 Rating, Add</i>		1,235.26	
		<i>For Class 56 Rating, Add</i>		1,637.44	
40 05 19 00-2778	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,507.14	524.12
		<i>For Class 52 Rating, Deduct</i>		-628.43	
		<i>For Class 54 Rating, Add</i>		866.48	
		<i>For Class 55 Rating, Add</i>		1,293.06	
		<i>For Class 56 Rating, Add</i>		1,713.93	
40 05 19 00-2779	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,770.90	527.49
		<i>For Class 52 Rating, Deduct</i>		-656.88	
		<i>For Class 54 Rating, Add</i>		905.34	
		<i>For Class 55 Rating, Add</i>		1,350.86	
		<i>For Class 56 Rating, Add</i>		1,790.41	
40 05 19 00-2780	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,034.64	530.85
		<i>For Class 52 Rating, Deduct</i>		-685.34	
		<i>For Class 54 Rating, Add</i>		944.20	
		<i>For Class 55 Rating, Add</i>		1,408.67	
		<i>For Class 56 Rating, Add</i>		1,866.90	
40 05 19 00-2781	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,298.39	534.21
		<i>For Class 52 Rating, Deduct</i>		-713.79	
		<i>For Class 54 Rating, Add</i>		983.06	
		<i>For Class 55 Rating, Add</i>		1,466.47	
		<i>For Class 56 Rating, Add</i>		1,943.39	
40 05 19 00-2782	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,562.14	537.57
		<i>For Class 52 Rating, Deduct</i>		-742.24	
		<i>For Class 54 Rating, Add</i>		1,021.92	
		<i>For Class 55 Rating, Add</i>		1,524.27	
		<i>For Class 56 Rating, Add</i>		2,019.88	
40 05 19 00-2783	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,825.90	540.92
		<i>For Class 52 Rating, Deduct</i>		-770.69	
		<i>For Class 54 Rating, Add</i>		1,060.78	
		<i>For Class 55 Rating, Add</i>		1,582.08	
		<i>For Class 56 Rating, Add</i>		2,096.37	
40 05 19 00-2784	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,089.65	544.28
		<i>For Class 52 Rating, Deduct</i>		-799.15	
		<i>For Class 54 Rating, Add</i>		1,099.64	
		<i>For Class 55 Rating, Add</i>		1,639.88	
		<i>For Class 56 Rating, Add</i>		2,172.85	
40 05 19 00-2785	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,353.39	547.64
		<i>For Class 52 Rating, Deduct</i>		-827.60	
		<i>For Class 54 Rating, Add</i>		1,138.50	
		<i>For Class 55 Rating, Add</i>		1,697.68	
		<i>For Class 56 Rating, Add</i>		2,249.34	
40 05 19 00-2786	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,617.15	551.01
		<i>For Class 52 Rating, Deduct</i>		-856.05	
		<i>For Class 54 Rating, Add</i>		1,177.36	
		<i>For Class 55 Rating, Add</i>		1,755.49	
		<i>For Class 56 Rating, Add</i>		2,325.83	
40 05 19 00-2787	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,880.90	554.37
		<i>For Class 52 Rating, Deduct</i>		-884.50	
		<i>For Class 54 Rating, Add</i>		1,216.22	
		<i>For Class 55 Rating, Add</i>		1,813.29	
		<i>For Class 56 Rating, Add</i>		2,402.32	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2788	EA			12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,144.65	557.73
				<i>For Class 52 Rating, Deduct</i>	-912.96	
				<i>For Class 54 Rating, Add</i>	1,255.08	
				<i>For Class 55 Rating, Add</i>	1,871.09	
				<i>For Class 56 Rating, Add</i>	2,478.81	
40 05 19 00-2789	EA			12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,408.39	561.09
				<i>For Class 52 Rating, Deduct</i>	-941.41	
				<i>For Class 54 Rating, Add</i>	1,293.94	
				<i>For Class 55 Rating, Add</i>	1,928.90	
				<i>For Class 56 Rating, Add</i>	2,555.29	
40 05 19 00-2790	EA			12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,672.15	564.44
				<i>For Class 52 Rating, Deduct</i>	-969.86	
				<i>For Class 54 Rating, Add</i>	1,332.80	
				<i>For Class 55 Rating, Add</i>	1,986.70	
				<i>For Class 56 Rating, Add</i>	2,631.78	
40 05 19 00-2791	EA			12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,935.90	567.80
				<i>For Class 52 Rating, Deduct</i>	-998.31	
				<i>For Class 54 Rating, Add</i>	1,371.66	
				<i>For Class 55 Rating, Add</i>	2,044.50	
				<i>For Class 56 Rating, Add</i>	2,708.27	
40 05 19 00-2792	EA			12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,199.65	571.16
				<i>For Class 52 Rating, Deduct</i>	-1,026.77	
				<i>For Class 54 Rating, Add</i>	1,410.52	
				<i>For Class 55 Rating, Add</i>	2,102.31	
				<i>For Class 56 Rating, Add</i>	2,784.76	
40 05 19 00-2793	EA			12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,463.40	574.53
				<i>For Class 52 Rating, Deduct</i>	-1,055.22	
				<i>For Class 54 Rating, Add</i>	1,449.38	
				<i>For Class 55 Rating, Add</i>	2,160.11	
				<i>For Class 56 Rating, Add</i>	2,861.25	
40 05 19 00-2794	EA			12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,727.15	577.89
				<i>For Class 52 Rating, Deduct</i>	-1,083.67	
				<i>For Class 54 Rating, Add</i>	1,488.24	
				<i>For Class 55 Rating, Add</i>	2,217.91	
				<i>For Class 56 Rating, Add</i>	2,937.73	
40 05 19 00-2795	EA			12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,990.90	581.25
				<i>For Class 52 Rating, Deduct</i>	-1,112.13	
				<i>For Class 54 Rating, Add</i>	1,527.10	
				<i>For Class 55 Rating, Add</i>	2,275.72	
				<i>For Class 56 Rating, Add</i>	3,014.22	
40 05 19 00-2796	EA			12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,254.65	584.60
				<i>For Class 52 Rating, Deduct</i>	-1,140.58	
				<i>For Class 54 Rating, Add</i>	1,565.96	
				<i>For Class 55 Rating, Add</i>	2,333.52	
				<i>For Class 56 Rating, Add</i>	3,090.71	
40 05 19 00-2797	EA			12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,518.41	587.96
				<i>For Class 52 Rating, Deduct</i>	-1,169.03	
				<i>For Class 54 Rating, Add</i>	1,604.82	
				<i>For Class 55 Rating, Add</i>	2,391.32	
				<i>For Class 56 Rating, Add</i>	3,167.20	
40 05 19 00-2798	EA			12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,782.15	591.32
				<i>For Class 52 Rating, Deduct</i>	-1,197.48	
				<i>For Class 54 Rating, Add</i>	1,643.68	
				<i>For Class 55 Rating, Add</i>	2,449.13	
				<i>For Class 56 Rating, Add</i>	3,243.69	
40 05 19 00-2799	EA			12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,045.90	594.68
				<i>For Class 52 Rating, Deduct</i>	-1,225.94	
				<i>For Class 54 Rating, Add</i>	1,682.54	
				<i>For Class 55 Rating, Add</i>	2,506.93	
				<i>For Class 56 Rating, Add</i>	3,320.17	
40 05 19 00-2800	EA			12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,309.65	598.05
				<i>For Class 52 Rating, Deduct</i>	-1,254.39	
				<i>For Class 54 Rating, Add</i>	1,721.40	
				<i>For Class 55 Rating, Add</i>	2,564.73	
				<i>For Class 56 Rating, Add</i>	3,396.66	

40 05 19 00-2801 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2800)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2802	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,177.54		564.44
		<i>For Class 52 Rating, Deduct</i>	-255.46		
		<i>For Class 54 Rating, Add</i>	358.61		
		<i>For Class 55 Rating, Add</i>	538.40		
		<i>For Class 56 Rating, Add</i>	715.87		
40 05 19 00-2803	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,497.52		567.80
		<i>For Class 52 Rating, Deduct</i>	-290.09		
		<i>For Class 54 Rating, Add</i>	405.91		
		<i>For Class 55 Rating, Add</i>	608.75		
		<i>For Class 56 Rating, Add</i>	808.95		
40 05 19 00-2804	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,817.50		571.16
		<i>For Class 52 Rating, Deduct</i>	-324.73		
		<i>For Class 54 Rating, Add</i>	453.20		
		<i>For Class 55 Rating, Add</i>	679.09		
		<i>For Class 56 Rating, Add</i>	902.02		
40 05 19 00-2805	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,137.48		574.53
		<i>For Class 52 Rating, Deduct</i>	-359.37		
		<i>For Class 54 Rating, Add</i>	500.49		
		<i>For Class 55 Rating, Add</i>	749.43		
		<i>For Class 56 Rating, Add</i>	995.10		
40 05 19 00-2806	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,457.46		577.89
		<i>For Class 52 Rating, Deduct</i>	-394.01		
		<i>For Class 54 Rating, Add</i>	547.79		
		<i>For Class 55 Rating, Add</i>	819.77		
		<i>For Class 56 Rating, Add</i>	1,088.18		
40 05 19 00-2807	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,777.44		581.25
		<i>For Class 52 Rating, Deduct</i>	-428.64		
		<i>For Class 54 Rating, Add</i>	595.08		
		<i>For Class 55 Rating, Add</i>	890.12		
		<i>For Class 56 Rating, Add</i>	1,181.25		
40 05 19 00-2808	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,097.42		584.60
		<i>For Class 52 Rating, Deduct</i>	-463.28		
		<i>For Class 54 Rating, Add</i>	642.38		
		<i>For Class 55 Rating, Add</i>	960.46		
		<i>For Class 56 Rating, Add</i>	1,274.33		
40 05 19 00-2809	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,417.41		587.96
		<i>For Class 52 Rating, Deduct</i>	-497.92		
		<i>For Class 54 Rating, Add</i>	689.67		
		<i>For Class 55 Rating, Add</i>	1,030.80		
		<i>For Class 56 Rating, Add</i>	1,367.40		
40 05 19 00-2810	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,737.38		591.32
		<i>For Class 52 Rating, Deduct</i>	-532.56		
		<i>For Class 54 Rating, Add</i>	736.97		
		<i>For Class 55 Rating, Add</i>	1,101.14		
		<i>For Class 56 Rating, Add</i>	1,460.48		
40 05 19 00-2811	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,057.36		594.68
		<i>For Class 52 Rating, Deduct</i>	-567.20		
		<i>For Class 54 Rating, Add</i>	784.26		
		<i>For Class 55 Rating, Add</i>	1,171.49		
		<i>For Class 56 Rating, Add</i>	1,553.55		
40 05 19 00-2812	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,377.34		598.05
		<i>For Class 52 Rating, Deduct</i>	-601.83		
		<i>For Class 54 Rating, Add</i>	831.56		
		<i>For Class 55 Rating, Add</i>	1,241.83		
		<i>For Class 56 Rating, Add</i>	1,646.63		
40 05 19 00-2813	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,697.33		601.41
		<i>For Class 52 Rating, Deduct</i>	-636.47		
		<i>For Class 54 Rating, Add</i>	878.85		
		<i>For Class 55 Rating, Add</i>	1,312.17		
		<i>For Class 56 Rating, Add</i>	1,739.71		
40 05 19 00-2814	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,017.31		604.76
		<i>For Class 52 Rating, Deduct</i>	-671.11		
		<i>For Class 54 Rating, Add</i>	926.15		
		<i>For Class 55 Rating, Add</i>	1,382.51		
		<i>For Class 56 Rating, Add</i>	1,832.78		
40 05 19 00-2815	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,337.28		608.12
		<i>For Class 52 Rating, Deduct</i>	-705.75		
		<i>For Class 54 Rating, Add</i>	973.44		
		<i>For Class 55 Rating, Add</i>	1,452.86		
		<i>For Class 56 Rating, Add</i>	1,925.86		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2816 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,657.27	611.48
<i>For Class 52 Rating, Deduct</i>	-740.39	
<i>For Class 54 Rating, Add</i>	1,020.73	
<i>For Class 55 Rating, Add</i>	1,523.20	
<i>For Class 56 Rating, Add</i>	2,018.93	
40 05 19 00-2817 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,977.25	614.84
<i>For Class 52 Rating, Deduct</i>	-775.02	
<i>For Class 54 Rating, Add</i>	1,068.03	
<i>For Class 55 Rating, Add</i>	1,593.54	
<i>For Class 56 Rating, Add</i>	2,112.01	
40 05 19 00-2818 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,297.23	618.20
<i>For Class 52 Rating, Deduct</i>	-809.66	
<i>For Class 54 Rating, Add</i>	1,115.32	
<i>For Class 55 Rating, Add</i>	1,663.88	
<i>For Class 56 Rating, Add</i>	2,205.09	
40 05 19 00-2819 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,617.20	621.57
<i>For Class 52 Rating, Deduct</i>	-844.30	
<i>For Class 54 Rating, Add</i>	1,162.62	
<i>For Class 55 Rating, Add</i>	1,734.23	
<i>For Class 56 Rating, Add</i>	2,298.16	
40 05 19 00-2820 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,937.19	624.92
<i>For Class 52 Rating, Deduct</i>	-878.94	
<i>For Class 54 Rating, Add</i>	1,209.91	
<i>For Class 55 Rating, Add</i>	1,804.57	
<i>For Class 56 Rating, Add</i>	2,391.24	
40 05 19 00-2821 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,257.17	628.28
<i>For Class 52 Rating, Deduct</i>	-913.58	
<i>For Class 54 Rating, Add</i>	1,257.21	
<i>For Class 55 Rating, Add</i>	1,874.91	
<i>For Class 56 Rating, Add</i>	2,484.31	
40 05 19 00-2822 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,577.15	631.64
<i>For Class 52 Rating, Deduct</i>	-948.21	
<i>For Class 54 Rating, Add</i>	1,304.50	
<i>For Class 55 Rating, Add</i>	1,945.26	
<i>For Class 56 Rating, Add</i>	2,577.39	
40 05 19 00-2823 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,897.13	635.00
<i>For Class 52 Rating, Deduct</i>	-982.85	
<i>For Class 54 Rating, Add</i>	1,351.80	
<i>For Class 55 Rating, Add</i>	2,015.60	
<i>For Class 56 Rating, Add</i>	2,670.46	
40 05 19 00-2824 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,217.11	638.36
<i>For Class 52 Rating, Deduct</i>	-1,017.49	
<i>For Class 54 Rating, Add</i>	1,399.09	
<i>For Class 55 Rating, Add</i>	2,085.94	
<i>For Class 56 Rating, Add</i>	2,763.54	
40 05 19 00-2825 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,537.09	641.72
<i>For Class 52 Rating, Deduct</i>	-1,052.13	
<i>For Class 54 Rating, Add</i>	1,446.39	
<i>For Class 55 Rating, Add</i>	2,156.28	
<i>For Class 56 Rating, Add</i>	2,856.62	
40 05 19 00-2826 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,857.07	645.08
<i>For Class 52 Rating, Deduct</i>	-1,086.76	
<i>For Class 54 Rating, Add</i>	1,493.68	
<i>For Class 55 Rating, Add</i>	2,226.63	
<i>For Class 56 Rating, Add</i>	2,949.69	
40 05 19 00-2827 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,177.06	648.44
<i>For Class 52 Rating, Deduct</i>	-1,121.40	
<i>For Class 54 Rating, Add</i>	1,540.98	
<i>For Class 55 Rating, Add</i>	2,296.97	
<i>For Class 56 Rating, Add</i>	3,042.77	
40 05 19 00-2828 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,497.03	651.80
<i>For Class 52 Rating, Deduct</i>	-1,156.04	
<i>For Class 54 Rating, Add</i>	1,588.27	
<i>For Class 55 Rating, Add</i>	2,367.31	
<i>For Class 56 Rating, Add</i>	3,135.84	
40 05 19 00-2829 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,817.01	655.16
<i>For Class 52 Rating, Deduct</i>	-1,190.68	
<i>For Class 54 Rating, Add</i>	1,635.56	
<i>For Class 55 Rating, Add</i>	2,437.65	
<i>For Class 56 Rating, Add</i>	3,228.92	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2830	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,136.99	658.52
			<i>For Class 52 Rating, Deduct</i>	-1,225.32	
			<i>For Class 54 Rating, Add</i>	1,682.86	
			<i>For Class 55 Rating, Add</i>	2,508.00	
			<i>For Class 56 Rating, Add</i>	3,321.99	
40 05 19 00-2831	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,456.98	661.88
			<i>For Class 52 Rating, Deduct</i>	-1,259.95	
			<i>For Class 54 Rating, Add</i>	1,730.15	
			<i>For Class 55 Rating, Add</i>	2,578.34	
			<i>For Class 56 Rating, Add</i>	3,415.07	
40 05 19 00-2832	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,776.96	665.23
			<i>For Class 52 Rating, Deduct</i>	-1,294.59	
			<i>For Class 54 Rating, Add</i>	1,777.45	
			<i>For Class 55 Rating, Add</i>	2,648.68	
			<i>For Class 56 Rating, Add</i>	3,508.15	
40 05 19 00-2833	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,096.93	668.60
			<i>For Class 52 Rating, Deduct</i>	-1,329.23	
			<i>For Class 54 Rating, Add</i>	1,824.74	
			<i>For Class 55 Rating, Add</i>	2,719.02	
			<i>For Class 56 Rating, Add</i>	3,601.22	
40 05 19 00-2834	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,416.92	671.96
			<i>For Class 52 Rating, Deduct</i>	-1,363.87	
			<i>For Class 54 Rating, Add</i>	1,872.04	
			<i>For Class 55 Rating, Add</i>	2,789.37	
			<i>For Class 56 Rating, Add</i>	3,694.30	
40 05 19 00-2835	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,736.90	675.32
			<i>For Class 52 Rating, Deduct</i>	-1,398.51	
			<i>For Class 54 Rating, Add</i>	1,919.33	
			<i>For Class 55 Rating, Add</i>	2,859.71	
			<i>For Class 56 Rating, Add</i>	3,787.37	
40 05 19 00-2836	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,056.88	678.68
			<i>For Class 52 Rating, Deduct</i>	-1,433.14	
			<i>For Class 54 Rating, Add</i>	1,966.63	
			<i>For Class 55 Rating, Add</i>	2,930.05	
			<i>For Class 56 Rating, Add</i>	3,880.45	
40 05 19 00-2837	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,376.86	682.04
			<i>For Class 52 Rating, Deduct</i>	-1,467.78	
			<i>For Class 54 Rating, Add</i>	2,013.92	
			<i>For Class 55 Rating, Add</i>	3,000.40	
			<i>For Class 56 Rating, Add</i>	3,973.53	
40 05 19 00-2838	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,696.84	685.39
			<i>For Class 52 Rating, Deduct</i>	-1,502.42	
			<i>For Class 54 Rating, Add</i>	2,061.22	
			<i>For Class 55 Rating, Add</i>	3,070.74	
			<i>For Class 56 Rating, Add</i>	4,066.60	
40 05 19 00-2839	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,016.82	688.75
			<i>For Class 52 Rating, Deduct</i>	-1,537.06	
			<i>For Class 54 Rating, Add</i>	2,108.51	
			<i>For Class 55 Rating, Add</i>	3,141.08	
			<i>For Class 56 Rating, Add</i>	4,159.68	
40 05 19 00-2840			16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2800)</small>		
40 05 19 00-2841	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,718.62	645.08
			<i>For Class 52 Rating, Deduct</i>	-301.54	
			<i>For Class 54 Rating, Add</i>	422.91	
			<i>For Class 55 Rating, Add</i>	634.75	
			<i>For Class 56 Rating, Add</i>	843.85	
40 05 19 00-2842	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,089.22	648.44
			<i>For Class 52 Rating, Deduct</i>	-341.74	
			<i>For Class 54 Rating, Add</i>	477.80	
			<i>For Class 55 Rating, Add</i>	716.38	
			<i>For Class 56 Rating, Add</i>	951.85	
40 05 19 00-2843	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,459.80	651.80
			<i>For Class 52 Rating, Deduct</i>	-381.95	
			<i>For Class 54 Rating, Add</i>	532.69	
			<i>For Class 55 Rating, Add</i>	798.01	
			<i>For Class 56 Rating, Add</i>	1,059.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2844 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,830.38	655.16
<i>For Class 52 Rating, Deduct</i>	-422.15	
<i>For Class 54 Rating, Add</i>	587.57	
<i>For Class 55 Rating, Add</i>	879.64	
<i>For Class 56 Rating, Add</i>	1,167.86	
40 05 19 00-2845 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,200.97	658.52
<i>For Class 52 Rating, Deduct</i>	-462.35	
<i>For Class 54 Rating, Add</i>	642.46	
<i>For Class 55 Rating, Add</i>	961.26	
<i>For Class 56 Rating, Add</i>	1,275.87	
40 05 19 00-2846 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,571.57	661.88
<i>For Class 52 Rating, Deduct</i>	-502.56	
<i>For Class 54 Rating, Add</i>	697.34	
<i>For Class 55 Rating, Add</i>	1,042.89	
<i>For Class 56 Rating, Add</i>	1,383.88	
40 05 19 00-2847 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,942.16	665.23
<i>For Class 52 Rating, Deduct</i>	-542.76	
<i>For Class 54 Rating, Add</i>	752.23	
<i>For Class 55 Rating, Add</i>	1,124.52	
<i>For Class 56 Rating, Add</i>	1,491.88	
40 05 19 00-2848 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,312.74	668.60
<i>For Class 52 Rating, Deduct</i>	-582.97	
<i>For Class 54 Rating, Add</i>	807.11	
<i>For Class 55 Rating, Add</i>	1,206.15	
<i>For Class 56 Rating, Add</i>	1,599.89	
40 05 19 00-2849 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,683.33	671.96
<i>For Class 52 Rating, Deduct</i>	-623.17	
<i>For Class 54 Rating, Add</i>	862.00	
<i>For Class 55 Rating, Add</i>	1,287.78	
<i>For Class 56 Rating, Add</i>	1,707.89	
40 05 19 00-2850 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,053.92	675.32
<i>For Class 52 Rating, Deduct</i>	-663.38	
<i>For Class 54 Rating, Add</i>	916.89	
<i>For Class 55 Rating, Add</i>	1,369.41	
<i>For Class 56 Rating, Add</i>	1,815.90	
40 05 19 00-2851 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,424.51	678.68
<i>For Class 52 Rating, Deduct</i>	-703.58	
<i>For Class 54 Rating, Add</i>	971.77	
<i>For Class 55 Rating, Add</i>	1,451.03	
<i>For Class 56 Rating, Add</i>	1,923.90	
40 05 19 00-2852 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,795.10	682.04
<i>For Class 52 Rating, Deduct</i>	-743.79	
<i>For Class 54 Rating, Add</i>	1,026.66	
<i>For Class 55 Rating, Add</i>	1,532.66	
<i>For Class 56 Rating, Add</i>	2,031.91	
40 05 19 00-2853 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,165.68	685.39
<i>For Class 52 Rating, Deduct</i>	-783.99	
<i>For Class 54 Rating, Add</i>	1,081.54	
<i>For Class 55 Rating, Add</i>	1,614.29	
<i>For Class 56 Rating, Add</i>	2,139.91	
40 05 19 00-2854 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,536.27	688.75
<i>For Class 52 Rating, Deduct</i>	-824.20	
<i>For Class 54 Rating, Add</i>	1,136.43	
<i>For Class 55 Rating, Add</i>	1,695.92	
<i>For Class 56 Rating, Add</i>	2,247.92	
40 05 19 00-2855 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,906.86	692.12
<i>For Class 52 Rating, Deduct</i>	-864.40	
<i>For Class 54 Rating, Add</i>	1,191.31	
<i>For Class 55 Rating, Add</i>	1,777.55	
<i>For Class 56 Rating, Add</i>	2,355.92	
40 05 19 00-2856 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,277.45	695.48
<i>For Class 52 Rating, Deduct</i>	-904.61	
<i>For Class 54 Rating, Add</i>	1,246.20	
<i>For Class 55 Rating, Add</i>	1,859.18	
<i>For Class 56 Rating, Add</i>	2,463.93	
40 05 19 00-2857 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,648.03	698.84
<i>For Class 52 Rating, Deduct</i>	-944.81	
<i>For Class 54 Rating, Add</i>	1,301.08	
<i>For Class 55 Rating, Add</i>	1,940.80	
<i>For Class 56 Rating, Add</i>	2,571.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2858	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	10,018.62	702.20
		<i>For Class 52 Rating, Deduct</i>		-985.02	
		<i>For Class 54 Rating, Add</i>		1,355.97	
		<i>For Class 55 Rating, Add</i>		2,022.43	
		<i>For Class 56 Rating, Add</i>		2,679.94	
40 05 19 00-2859	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	10,389.21	705.55
		<i>For Class 52 Rating, Deduct</i>		-1,025.22	
		<i>For Class 54 Rating, Add</i>		1,410.86	
		<i>For Class 55 Rating, Add</i>		2,104.06	
		<i>For Class 56 Rating, Add</i>		2,787.94	
40 05 19 00-2860	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	10,759.81	708.91
		<i>For Class 52 Rating, Deduct</i>		-1,065.43	
		<i>For Class 54 Rating, Add</i>		1,465.74	
		<i>For Class 55 Rating, Add</i>		2,185.69	
		<i>For Class 56 Rating, Add</i>		2,895.95	
40 05 19 00-2861	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	11,130.39	712.27
		<i>For Class 52 Rating, Deduct</i>		-1,105.63	
		<i>For Class 54 Rating, Add</i>		1,520.63	
		<i>For Class 55 Rating, Add</i>		2,267.31	
		<i>For Class 56 Rating, Add</i>		3,003.95	
40 05 19 00-2862	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	11,500.97	715.64
		<i>For Class 52 Rating, Deduct</i>		-1,145.83	
		<i>For Class 54 Rating, Add</i>		1,575.51	
		<i>For Class 55 Rating, Add</i>		2,348.94	
		<i>For Class 56 Rating, Add</i>		3,111.96	
40 05 19 00-2863	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	11,871.56	719.00
		<i>For Class 52 Rating, Deduct</i>		-1,186.04	
		<i>For Class 54 Rating, Add</i>		1,630.40	
		<i>For Class 55 Rating, Add</i>		2,430.57	
		<i>For Class 56 Rating, Add</i>		3,219.96	
40 05 19 00-2864	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	12,242.16	722.36
		<i>For Class 52 Rating, Deduct</i>		-1,226.24	
		<i>For Class 54 Rating, Add</i>		1,685.29	
		<i>For Class 55 Rating, Add</i>		2,512.20	
		<i>For Class 56 Rating, Add</i>		3,327.97	
40 05 19 00-2865	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	12,612.74	725.71
		<i>For Class 52 Rating, Deduct</i>		-1,266.45	
		<i>For Class 54 Rating, Add</i>		1,740.17	
		<i>For Class 55 Rating, Add</i>		2,593.83	
		<i>For Class 56 Rating, Add</i>		3,435.97	
40 05 19 00-2866	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	12,983.32	729.07
		<i>For Class 52 Rating, Deduct</i>		-1,306.65	
		<i>For Class 54 Rating, Add</i>		1,795.06	
		<i>For Class 55 Rating, Add</i>		2,675.46	
		<i>For Class 56 Rating, Add</i>		3,543.98	
40 05 19 00-2867	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	13,353.92	732.43
		<i>For Class 52 Rating, Deduct</i>		-1,346.86	
		<i>For Class 54 Rating, Add</i>		1,849.94	
		<i>For Class 55 Rating, Add</i>		2,757.08	
		<i>For Class 56 Rating, Add</i>		3,651.98	
40 05 19 00-2868	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	13,724.51	735.79
		<i>For Class 52 Rating, Deduct</i>		-1,387.06	
		<i>For Class 54 Rating, Add</i>		1,904.83	
		<i>For Class 55 Rating, Add</i>		2,838.71	
		<i>For Class 56 Rating, Add</i>		3,759.99	
40 05 19 00-2869	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	14,095.09	739.16
		<i>For Class 52 Rating, Deduct</i>		-1,427.27	
		<i>For Class 54 Rating, Add</i>		1,959.71	
		<i>For Class 55 Rating, Add</i>		2,920.34	
		<i>For Class 56 Rating, Add</i>		3,867.99	
40 05 19 00-2870	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	14,465.68	742.52
		<i>For Class 52 Rating, Deduct</i>		-1,467.47	
		<i>For Class 54 Rating, Add</i>		2,014.60	
		<i>For Class 55 Rating, Add</i>		3,001.97	
		<i>For Class 56 Rating, Add</i>		3,976.00	
40 05 19 00-2871	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	14,836.27	745.87
		<i>For Class 52 Rating, Deduct</i>		-1,507.68	
		<i>For Class 54 Rating, Add</i>		2,069.49	
		<i>For Class 55 Rating, Add</i>		3,083.60	
		<i>For Class 56 Rating, Add</i>		4,084.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2872 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,206.86	749.23
<i>For Class 52 Rating, Deduct</i>	-1,547.88	
<i>For Class 54 Rating, Add</i>	2,124.37	
<i>For Class 55 Rating, Add</i>	3,165.22	
<i>For Class 56 Rating, Add</i>	4,192.01	
40 05 19 00-2873 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,577.45	752.59
<i>For Class 52 Rating, Deduct</i>	-1,588.09	
<i>For Class 54 Rating, Add</i>	2,179.26	
<i>For Class 55 Rating, Add</i>	3,246.85	
<i>For Class 56 Rating, Add</i>	4,300.01	
40 05 19 00-2874 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,948.03	755.95
<i>For Class 52 Rating, Deduct</i>	-1,628.29	
<i>For Class 54 Rating, Add</i>	2,234.14	
<i>For Class 55 Rating, Add</i>	3,328.48	
<i>For Class 56 Rating, Add</i>	4,408.02	
40 05 19 00-2875 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,318.62	759.31
<i>For Class 52 Rating, Deduct</i>	-1,668.50	
<i>For Class 54 Rating, Add</i>	2,289.03	
<i>For Class 55 Rating, Add</i>	3,410.11	
<i>For Class 56 Rating, Add</i>	4,516.02	
40 05 19 00-2876 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,689.21	762.68
<i>For Class 52 Rating, Deduct</i>	-1,708.70	
<i>For Class 54 Rating, Add</i>	2,343.91	
<i>For Class 55 Rating, Add</i>	3,491.74	
<i>For Class 56 Rating, Add</i>	4,624.03	
40 05 19 00-2877 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,059.80	766.03
<i>For Class 52 Rating, Deduct</i>	-1,748.91	
<i>For Class 54 Rating, Add</i>	2,398.80	
<i>For Class 55 Rating, Add</i>	3,573.37	
<i>For Class 56 Rating, Add</i>	4,732.03	
40 05 19 00-2878 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,430.39	769.39
<i>For Class 52 Rating, Deduct</i>	-1,789.11	
<i>For Class 54 Rating, Add</i>	2,453.69	
<i>For Class 55 Rating, Add</i>	3,654.99	
<i>For Class 56 Rating, Add</i>	4,840.04	
40 05 19 00-2879 18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2800)</small>		
40 05 19 00-2880 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,348.91	727.06
<i>For Class 52 Rating, Deduct</i>	-357.20	
<i>For Class 54 Rating, Add</i>	500.32	
<i>For Class 55 Rating, Add</i>	750.59	
<i>For Class 56 Rating, Add</i>	997.61	
40 05 19 00-2881 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,775.73	730.42
<i>For Class 52 Rating, Deduct</i>	-403.59	
<i>For Class 54 Rating, Add</i>	563.63	
<i>For Class 55 Rating, Add</i>	844.75	
<i>For Class 56 Rating, Add</i>	1,122.21	
40 05 19 00-2882 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,202.54	733.78
<i>For Class 52 Rating, Deduct</i>	-449.98	
<i>For Class 54 Rating, Add</i>	626.96	
<i>For Class 55 Rating, Add</i>	938.92	
<i>For Class 56 Rating, Add</i>	1,246.80	
40 05 19 00-2883 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,629.36	737.14
<i>For Class 52 Rating, Deduct</i>	-496.37	
<i>For Class 54 Rating, Add</i>	690.28	
<i>For Class 55 Rating, Add</i>	1,033.09	
<i>For Class 56 Rating, Add</i>	1,371.39	
40 05 19 00-2884 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,056.19	740.50
<i>For Class 52 Rating, Deduct</i>	-542.76	
<i>For Class 54 Rating, Add</i>	753.60	
<i>For Class 55 Rating, Add</i>	1,127.26	
<i>For Class 56 Rating, Add</i>	1,495.99	
40 05 19 00-2885 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,483.01	743.87
<i>For Class 52 Rating, Deduct</i>	-589.15	
<i>For Class 54 Rating, Add</i>	816.92	
<i>For Class 55 Rating, Add</i>	1,221.43	
<i>For Class 56 Rating, Add</i>	1,620.58	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2886	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,909.81	747.22
		<i>For Class 52 Rating, Deduct</i>		-635.54	
		<i>For Class 54 Rating, Add</i>		880.24	
		<i>For Class 55 Rating, Add</i>		1,315.59	
		<i>For Class 56 Rating, Add</i>		1,745.17	
40 05 19 00-2887	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,336.63	750.58
		<i>For Class 52 Rating, Deduct</i>		-681.93	
		<i>For Class 54 Rating, Add</i>		943.56	
		<i>For Class 55 Rating, Add</i>		1,409.76	
		<i>For Class 56 Rating, Add</i>		1,869.76	
40 05 19 00-2888	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,763.46	753.94
		<i>For Class 52 Rating, Deduct</i>		-728.32	
		<i>For Class 54 Rating, Add</i>		1,006.88	
		<i>For Class 55 Rating, Add</i>		1,503.93	
		<i>For Class 56 Rating, Add</i>		1,994.36	
40 05 19 00-2889	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,190.28	757.30
		<i>For Class 52 Rating, Deduct</i>		-774.71	
		<i>For Class 54 Rating, Add</i>		1,070.20	
		<i>For Class 55 Rating, Add</i>		1,598.10	
		<i>For Class 56 Rating, Add</i>		2,118.95	
40 05 19 00-2890	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,617.10	760.66
		<i>For Class 52 Rating, Deduct</i>		-821.10	
		<i>For Class 54 Rating, Add</i>		1,133.52	
		<i>For Class 55 Rating, Add</i>		1,692.26	
		<i>For Class 56 Rating, Add</i>		2,243.54	
40 05 19 00-2891	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,043.91	764.02
		<i>For Class 52 Rating, Deduct</i>		-867.49	
		<i>For Class 54 Rating, Add</i>		1,196.84	
		<i>For Class 55 Rating, Add</i>		1,786.43	
		<i>For Class 56 Rating, Add</i>		2,368.14	
40 05 19 00-2892	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,470.73	767.38
		<i>For Class 52 Rating, Deduct</i>		-913.88	
		<i>For Class 54 Rating, Add</i>		1,260.16	
		<i>For Class 55 Rating, Add</i>		1,880.60	
		<i>For Class 56 Rating, Add</i>		2,492.73	
40 05 19 00-2893	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,897.55	770.74
		<i>For Class 52 Rating, Deduct</i>		-960.27	
		<i>For Class 54 Rating, Add</i>		1,323.48	
		<i>For Class 55 Rating, Add</i>		1,974.77	
		<i>For Class 56 Rating, Add</i>		2,617.32	
40 05 19 00-2894	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,324.37	774.10
		<i>For Class 52 Rating, Deduct</i>		-1,006.67	
		<i>For Class 54 Rating, Add</i>		1,386.80	
		<i>For Class 55 Rating, Add</i>		2,068.93	
		<i>For Class 56 Rating, Add</i>		2,741.92	
40 05 19 00-2895	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,751.20	777.46
		<i>For Class 52 Rating, Deduct</i>		-1,053.06	
		<i>For Class 54 Rating, Add</i>		1,450.12	
		<i>For Class 55 Rating, Add</i>		2,163.10	
		<i>For Class 56 Rating, Add</i>		2,866.51	
40 05 19 00-2896	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,178.00	780.82
		<i>For Class 52 Rating, Deduct</i>		-1,099.44	
		<i>For Class 54 Rating, Add</i>		1,513.44	
		<i>For Class 55 Rating, Add</i>		2,257.27	
		<i>For Class 56 Rating, Add</i>		2,991.10	
40 05 19 00-2897	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,604.82	784.18
		<i>For Class 52 Rating, Deduct</i>		-1,145.83	
		<i>For Class 54 Rating, Add</i>		1,576.76	
		<i>For Class 55 Rating, Add</i>		2,351.44	
		<i>For Class 56 Rating, Add</i>		3,115.69	
40 05 19 00-2898	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,031.65	787.53
		<i>For Class 52 Rating, Deduct</i>		-1,192.23	
		<i>For Class 54 Rating, Add</i>		1,640.08	
		<i>For Class 55 Rating, Add</i>		2,445.60	
		<i>For Class 56 Rating, Add</i>		3,240.29	
40 05 19 00-2899	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,458.47	790.90
		<i>For Class 52 Rating, Deduct</i>		-1,238.62	
		<i>For Class 54 Rating, Add</i>		1,703.40	
		<i>For Class 55 Rating, Add</i>		2,539.77	
		<i>For Class 56 Rating, Add</i>		3,364.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2900 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,885.28	794.26
<i>For Class 52 Rating, Deduct</i>	-1,285.01	
<i>For Class 54 Rating, Add</i>	1,766.72	
<i>For Class 55 Rating, Add</i>	2,633.94	
<i>For Class 56 Rating, Add</i>	3,489.47	
40 05 19 00-2901 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,312.09	797.62
<i>For Class 52 Rating, Deduct</i>	-1,331.39	
<i>For Class 54 Rating, Add</i>	1,830.04	
<i>For Class 55 Rating, Add</i>	2,728.10	
<i>For Class 56 Rating, Add</i>	3,614.07	
40 05 19 00-2902 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,738.92	800.98
<i>For Class 52 Rating, Deduct</i>	-1,377.79	
<i>For Class 54 Rating, Add</i>	1,893.36	
<i>For Class 55 Rating, Add</i>	2,822.27	
<i>For Class 56 Rating, Add</i>	3,738.66	
40 05 19 00-2903 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,165.74	804.34
<i>For Class 52 Rating, Deduct</i>	-1,424.18	
<i>For Class 54 Rating, Add</i>	1,956.68	
<i>For Class 55 Rating, Add</i>	2,916.44	
<i>For Class 56 Rating, Add</i>	3,863.25	
40 05 19 00-2904 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,592.56	807.69
<i>For Class 52 Rating, Deduct</i>	-1,470.57	
<i>For Class 54 Rating, Add</i>	2,020.00	
<i>For Class 55 Rating, Add</i>	3,010.61	
<i>For Class 56 Rating, Add</i>	3,987.85	
40 05 19 00-2905 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,019.37	811.05
<i>For Class 52 Rating, Deduct</i>	-1,516.96	
<i>For Class 54 Rating, Add</i>	2,083.32	
<i>For Class 55 Rating, Add</i>	3,104.78	
<i>For Class 56 Rating, Add</i>	4,112.44	
40 05 19 00-2906 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,446.19	814.42
<i>For Class 52 Rating, Deduct</i>	-1,563.35	
<i>For Class 54 Rating, Add</i>	2,146.64	
<i>For Class 55 Rating, Add</i>	3,198.94	
<i>For Class 56 Rating, Add</i>	4,237.03	
40 05 19 00-2907 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,873.01	817.78
<i>For Class 52 Rating, Deduct</i>	-1,609.74	
<i>For Class 54 Rating, Add</i>	2,209.96	
<i>For Class 55 Rating, Add</i>	3,293.11	
<i>For Class 56 Rating, Add</i>	4,361.62	
40 05 19 00-2908 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,299.83	821.14
<i>For Class 52 Rating, Deduct</i>	-1,656.13	
<i>For Class 54 Rating, Add</i>	2,273.28	
<i>For Class 55 Rating, Add</i>	3,387.28	
<i>For Class 56 Rating, Add</i>	4,486.22	
40 05 19 00-2909 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,726.65	824.50
<i>For Class 52 Rating, Deduct</i>	-1,702.52	
<i>For Class 54 Rating, Add</i>	2,336.60	
<i>For Class 55 Rating, Add</i>	3,481.45	
<i>For Class 56 Rating, Add</i>	4,610.81	
40 05 19 00-2910 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,153.47	827.85
<i>For Class 52 Rating, Deduct</i>	-1,748.91	
<i>For Class 54 Rating, Add</i>	2,399.92	
<i>For Class 55 Rating, Add</i>	3,575.61	
<i>For Class 56 Rating, Add</i>	4,735.40	
40 05 19 00-2911 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,580.28	831.21
<i>For Class 52 Rating, Deduct</i>	-1,795.30	
<i>For Class 54 Rating, Add</i>	2,463.24	
<i>For Class 55 Rating, Add</i>	3,669.78	
<i>For Class 56 Rating, Add</i>	4,860.00	
40 05 19 00-2912 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,007.10	834.57
<i>For Class 52 Rating, Deduct</i>	-1,841.69	
<i>For Class 54 Rating, Add</i>	2,526.56	
<i>For Class 55 Rating, Add</i>	3,763.95	
<i>For Class 56 Rating, Add</i>	4,984.59	
40 05 19 00-2913 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,433.93	837.94
<i>For Class 52 Rating, Deduct</i>	-1,888.08	
<i>For Class 54 Rating, Add</i>	2,589.88	
<i>For Class 55 Rating, Add</i>	3,858.12	
<i>For Class 56 Rating, Add</i>	5,109.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2914	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		18,860.74	841.30
		<i>For Class 52 Rating, Deduct</i>		-1,934.47	
		<i>For Class 54 Rating, Add</i>		2,653.21	
		<i>For Class 55 Rating, Add</i>		3,952.28	
		<i>For Class 56 Rating, Add</i>		5,233.78	
40 05 19 00-2915	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		19,287.56	844.66
		<i>For Class 52 Rating, Deduct</i>		-1,980.86	
		<i>For Class 54 Rating, Add</i>		2,716.53	
		<i>For Class 55 Rating, Add</i>		4,046.45	
		<i>For Class 56 Rating, Add</i>		5,358.37	
40 05 19 00-2916	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		19,714.37	848.02
		<i>For Class 52 Rating, Deduct</i>		-2,027.25	
		<i>For Class 54 Rating, Add</i>		2,779.84	
		<i>For Class 55 Rating, Add</i>		4,140.62	
		<i>For Class 56 Rating, Add</i>		5,482.96	
40 05 19 00-2917	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,141.20	851.37
		<i>For Class 52 Rating, Deduct</i>		-2,073.64	
		<i>For Class 54 Rating, Add</i>		2,843.17	
		<i>For Class 55 Rating, Add</i>		4,234.79	
		<i>For Class 56 Rating, Add</i>		5,607.55	
40 05 19 00-2918		20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>			
40 05 19 00-2919	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,038.87	829.86
		<i>For Class 52 Rating, Deduct</i>		-415.96	
		<i>For Class 54 Rating, Add</i>		582.31	
		<i>For Class 55 Rating, Add</i>		873.45	
		<i>For Class 56 Rating, Add</i>		1,160.81	
40 05 19 00-2920	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,524.73	833.23
		<i>For Class 52 Rating, Deduct</i>		-468.85	
		<i>For Class 54 Rating, Add</i>		654.49	
		<i>For Class 55 Rating, Add</i>		980.78	
		<i>For Class 56 Rating, Add</i>		1,302.82	
40 05 19 00-2921	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,010.58	836.59
		<i>For Class 52 Rating, Deduct</i>		-521.73	
		<i>For Class 54 Rating, Add</i>		726.67	
		<i>For Class 55 Rating, Add</i>		1,088.12	
		<i>For Class 56 Rating, Add</i>		1,444.83	
40 05 19 00-2922	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,496.44	839.95
		<i>For Class 52 Rating, Deduct</i>		-574.62	
		<i>For Class 54 Rating, Add</i>		798.84	
		<i>For Class 55 Rating, Add</i>		1,195.45	
		<i>For Class 56 Rating, Add</i>		1,586.84	
40 05 19 00-2923	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,982.31	843.31
		<i>For Class 52 Rating, Deduct</i>		-627.50	
		<i>For Class 54 Rating, Add</i>		871.02	
		<i>For Class 55 Rating, Add</i>		1,302.78	
		<i>For Class 56 Rating, Add</i>		1,728.85	
40 05 19 00-2924	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,468.17	846.67
		<i>For Class 52 Rating, Deduct</i>		-680.39	
		<i>For Class 54 Rating, Add</i>		943.19	
		<i>For Class 55 Rating, Add</i>		1,410.12	
		<i>For Class 56 Rating, Add</i>		1,870.86	
40 05 19 00-2925	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,954.03	850.02
		<i>For Class 52 Rating, Deduct</i>		-733.27	
		<i>For Class 54 Rating, Add</i>		1,015.37	
		<i>For Class 55 Rating, Add</i>		1,517.45	
		<i>For Class 56 Rating, Add</i>		2,012.87	
40 05 19 00-2926	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,439.89	853.38
		<i>For Class 52 Rating, Deduct</i>		-786.16	
		<i>For Class 54 Rating, Add</i>		1,087.55	
		<i>For Class 55 Rating, Add</i>		1,624.79	
		<i>For Class 56 Rating, Add</i>		2,154.88	
40 05 19 00-2927	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,925.75	856.75
		<i>For Class 52 Rating, Deduct</i>		-839.04	
		<i>For Class 54 Rating, Add</i>		1,159.72	
		<i>For Class 55 Rating, Add</i>		1,732.12	
		<i>For Class 56 Rating, Add</i>		2,296.89	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2928	EA			20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,411.61	860.11
				<i>For Class 52 Rating, Deduct</i>	-891.93	
				<i>For Class 54 Rating, Add</i>	1,231.90	
				<i>For Class 55 Rating, Add</i>	1,839.45	
				<i>For Class 56 Rating, Add</i>	2,438.90	
40 05 19 00-2929	EA			20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,897.47	863.47
				<i>For Class 52 Rating, Deduct</i>	-944.81	
				<i>For Class 54 Rating, Add</i>	1,304.08	
				<i>For Class 55 Rating, Add</i>	1,946.79	
				<i>For Class 56 Rating, Add</i>	2,580.91	
40 05 19 00-2930	EA			20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,383.33	866.83
				<i>For Class 52 Rating, Deduct</i>	-997.70	
				<i>For Class 54 Rating, Add</i>	1,376.25	
				<i>For Class 55 Rating, Add</i>	2,054.12	
				<i>For Class 56 Rating, Add</i>	2,722.92	
40 05 19 00-2931	EA			20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,869.19	870.18
				<i>For Class 52 Rating, Deduct</i>	-1,050.58	
				<i>For Class 54 Rating, Add</i>	1,448.43	
				<i>For Class 55 Rating, Add</i>	2,161.46	
				<i>For Class 56 Rating, Add</i>	2,864.93	
40 05 19 00-2932	EA			20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,355.05	873.54
				<i>For Class 52 Rating, Deduct</i>	-1,103.47	
				<i>For Class 54 Rating, Add</i>	1,520.61	
				<i>For Class 55 Rating, Add</i>	2,268.79	
				<i>For Class 56 Rating, Add</i>	3,006.94	
40 05 19 00-2933	EA			20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,840.91	876.90
				<i>For Class 52 Rating, Deduct</i>	-1,156.35	
				<i>For Class 54 Rating, Add</i>	1,592.78	
				<i>For Class 55 Rating, Add</i>	2,376.12	
				<i>For Class 56 Rating, Add</i>	3,148.95	
40 05 19 00-2934	EA			20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,326.78	880.27
				<i>For Class 52 Rating, Deduct</i>	-1,209.23	
				<i>For Class 54 Rating, Add</i>	1,664.96	
				<i>For Class 55 Rating, Add</i>	2,483.46	
				<i>For Class 56 Rating, Add</i>	3,290.96	
40 05 19 00-2935	EA			20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,812.63	883.63
				<i>For Class 52 Rating, Deduct</i>	-1,262.12	
				<i>For Class 54 Rating, Add</i>	1,737.14	
				<i>For Class 55 Rating, Add</i>	2,590.79	
				<i>For Class 56 Rating, Add</i>	3,432.97	
40 05 19 00-2936	EA			20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,298.49	886.99
				<i>For Class 52 Rating, Deduct</i>	-1,315.00	
				<i>For Class 54 Rating, Add</i>	1,809.31	
				<i>For Class 55 Rating, Add</i>	2,698.13	
				<i>For Class 56 Rating, Add</i>	3,574.98	
40 05 19 00-2937	EA			20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,784.36	890.34
				<i>For Class 52 Rating, Deduct</i>	-1,367.89	
				<i>For Class 54 Rating, Add</i>	1,881.49	
				<i>For Class 55 Rating, Add</i>	2,805.46	
				<i>For Class 56 Rating, Add</i>	3,716.99	
40 05 19 00-2938	EA			20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,270.22	893.70
				<i>For Class 52 Rating, Deduct</i>	-1,420.77	
				<i>For Class 54 Rating, Add</i>	1,953.67	
				<i>For Class 55 Rating, Add</i>	2,912.79	
				<i>For Class 56 Rating, Add</i>	3,859.00	
40 05 19 00-2939	EA			20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,756.07	897.06
				<i>For Class 52 Rating, Deduct</i>	-1,473.66	
				<i>For Class 54 Rating, Add</i>	2,025.84	
				<i>For Class 55 Rating, Add</i>	3,020.13	
				<i>For Class 56 Rating, Add</i>	4,001.01	
40 05 19 00-2940	EA			20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,241.93	900.42
				<i>For Class 52 Rating, Deduct</i>	-1,526.54	
				<i>For Class 54 Rating, Add</i>	2,098.02	
				<i>For Class 55 Rating, Add</i>	3,127.46	
				<i>For Class 56 Rating, Add</i>	4,143.02	
40 05 19 00-2941	EA			20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,727.80	903.79
				<i>For Class 52 Rating, Deduct</i>	-1,579.43	
				<i>For Class 54 Rating, Add</i>	2,170.20	
				<i>For Class 55 Rating, Add</i>	3,234.79	
				<i>For Class 56 Rating, Add</i>	4,285.03	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2942	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		16,213.66	907.15
		<i>For Class 52 Rating, Deduct</i>		-1,632.31	
		<i>For Class 54 Rating, Add</i>		2,242.37	
		<i>For Class 55 Rating, Add</i>		3,342.13	
		<i>For Class 56 Rating, Add</i>		4,427.04	
40 05 19 00-2943	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		16,699.52	910.50
		<i>For Class 52 Rating, Deduct</i>		-1,685.20	
		<i>For Class 54 Rating, Add</i>		2,314.55	
		<i>For Class 55 Rating, Add</i>		3,449.46	
		<i>For Class 56 Rating, Add</i>		4,569.05	
40 05 19 00-2944	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		17,185.38	913.86
		<i>For Class 52 Rating, Deduct</i>		-1,738.08	
		<i>For Class 54 Rating, Add</i>		2,386.73	
		<i>For Class 55 Rating, Add</i>		3,556.80	
		<i>For Class 56 Rating, Add</i>		4,711.07	
40 05 19 00-2945	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		17,671.24	917.22
		<i>For Class 52 Rating, Deduct</i>		-1,790.97	
		<i>For Class 54 Rating, Add</i>		2,458.90	
		<i>For Class 55 Rating, Add</i>		3,664.13	
		<i>For Class 56 Rating, Add</i>		4,853.08	
40 05 19 00-2946	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		18,157.10	920.58
		<i>For Class 52 Rating, Deduct</i>		-1,843.85	
		<i>For Class 54 Rating, Add</i>		2,531.08	
		<i>For Class 55 Rating, Add</i>		3,771.46	
		<i>For Class 56 Rating, Add</i>		4,995.09	
40 05 19 00-2947	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		18,642.96	923.94
		<i>For Class 52 Rating, Deduct</i>		-1,896.74	
		<i>For Class 54 Rating, Add</i>		2,603.26	
		<i>For Class 55 Rating, Add</i>		3,878.80	
		<i>For Class 56 Rating, Add</i>		5,137.10	
40 05 19 00-2948	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		19,128.83	927.31
		<i>For Class 52 Rating, Deduct</i>		-1,949.62	
		<i>For Class 54 Rating, Add</i>		2,675.43	
		<i>For Class 55 Rating, Add</i>		3,986.13	
		<i>For Class 56 Rating, Add</i>		5,279.11	
40 05 19 00-2949	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		19,614.68	930.66
		<i>For Class 52 Rating, Deduct</i>		-2,002.50	
		<i>For Class 54 Rating, Add</i>		2,747.61	
		<i>For Class 55 Rating, Add</i>		4,093.47	
		<i>For Class 56 Rating, Add</i>		5,421.12	
40 05 19 00-2950	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,100.54	934.02
		<i>For Class 52 Rating, Deduct</i>		-2,055.39	
		<i>For Class 54 Rating, Add</i>		2,819.79	
		<i>For Class 55 Rating, Add</i>		4,200.80	
		<i>For Class 56 Rating, Add</i>		5,563.13	
40 05 19 00-2951	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,586.40	937.38
		<i>For Class 52 Rating, Deduct</i>		-2,108.27	
		<i>For Class 54 Rating, Add</i>		2,891.96	
		<i>For Class 55 Rating, Add</i>		4,308.13	
		<i>For Class 56 Rating, Add</i>		5,705.14	
40 05 19 00-2952	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		21,072.27	940.74
		<i>For Class 52 Rating, Deduct</i>		-2,161.16	
		<i>For Class 54 Rating, Add</i>		2,964.14	
		<i>For Class 55 Rating, Add</i>		4,415.47	
		<i>For Class 56 Rating, Add</i>		5,847.15	
40 05 19 00-2953	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		21,558.12	944.10
		<i>For Class 52 Rating, Deduct</i>		-2,214.04	
		<i>For Class 54 Rating, Add</i>		3,036.32	
		<i>For Class 55 Rating, Add</i>		4,522.80	
		<i>For Class 56 Rating, Add</i>		5,989.16	
40 05 19 00-2954	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		22,043.98	947.46
		<i>For Class 52 Rating, Deduct</i>		-2,266.93	
		<i>For Class 54 Rating, Add</i>		3,108.49	
		<i>For Class 55 Rating, Add</i>		4,630.14	
		<i>For Class 56 Rating, Add</i>		6,131.17	
40 05 19 00-2955	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		22,529.85	950.82
		<i>For Class 52 Rating, Deduct</i>		-2,319.81	
		<i>For Class 54 Rating, Add</i>		3,180.67	
		<i>For Class 55 Rating, Add</i>		4,737.47	
		<i>For Class 56 Rating, Add</i>		6,273.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2956 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,015.71	954.18
<i>For Class 52 Rating, Deduct</i>	-2,372.70	
<i>For Class 54 Rating, Add</i>	3,252.85	
<i>For Class 55 Rating, Add</i>	4,844.80	
<i>For Class 56 Rating, Add</i>	6,415.19	
40 05 19 00-2957 24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2958 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,260.41	981.06
<i>For Class 52 Rating, Deduct</i>	-525.14	
<i>For Class 54 Rating, Add</i>	733.93	
<i>For Class 55 Rating, Add</i>	1,100.27	
<i>For Class 56 Rating, Add</i>	1,461.83	
40 05 19 00-2959 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,861.54	984.42
<i>For Class 52 Rating, Deduct</i>	-590.70	
<i>For Class 54 Rating, Add</i>	823.40	
<i>For Class 55 Rating, Add</i>	1,233.31	
<i>For Class 56 Rating, Add</i>	1,637.85	
40 05 19 00-2960 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,462.69	987.78
<i>For Class 52 Rating, Deduct</i>	-656.27	
<i>For Class 54 Rating, Add</i>	912.87	
<i>For Class 55 Rating, Add</i>	1,366.35	
<i>For Class 56 Rating, Add</i>	1,813.86	
40 05 19 00-2961 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,063.81	991.13
<i>For Class 52 Rating, Deduct</i>	-721.83	
<i>For Class 54 Rating, Add</i>	1,002.33	
<i>For Class 55 Rating, Add</i>	1,499.39	
<i>For Class 56 Rating, Add</i>	1,989.88	
40 05 19 00-2962 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,664.94	994.49
<i>For Class 52 Rating, Deduct</i>	-787.39	
<i>For Class 54 Rating, Add</i>	1,091.80	
<i>For Class 55 Rating, Add</i>	1,632.43	
<i>For Class 56 Rating, Add</i>	2,165.89	
40 05 19 00-2963 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,266.07	997.86
<i>For Class 52 Rating, Deduct</i>	-852.96	
<i>For Class 54 Rating, Add</i>	1,181.27	
<i>For Class 55 Rating, Add</i>	1,765.47	
<i>For Class 56 Rating, Add</i>	2,341.91	
40 05 19 00-2964 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,867.21	1,001.22
<i>For Class 52 Rating, Deduct</i>	-918.52	
<i>For Class 54 Rating, Add</i>	1,270.74	
<i>For Class 55 Rating, Add</i>	1,898.50	
<i>For Class 56 Rating, Add</i>	2,517.92	
40 05 19 00-2965 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,468.34	1,004.58
<i>For Class 52 Rating, Deduct</i>	-984.09	
<i>For Class 54 Rating, Add</i>	1,360.20	
<i>For Class 55 Rating, Add</i>	2,031.55	
<i>For Class 56 Rating, Add</i>	2,693.94	
40 05 19 00-2966 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,069.47	1,007.94
<i>For Class 52 Rating, Deduct</i>	-1,049.65	
<i>For Class 54 Rating, Add</i>	1,449.67	
<i>For Class 55 Rating, Add</i>	2,164.58	
<i>For Class 56 Rating, Add</i>	2,869.96	
40 05 19 00-2967 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,670.61	1,011.29
<i>For Class 52 Rating, Deduct</i>	-1,115.22	
<i>For Class 54 Rating, Add</i>	1,539.14	
<i>For Class 55 Rating, Add</i>	2,297.62	
<i>For Class 56 Rating, Add</i>	3,045.97	
40 05 19 00-2968 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,271.74	1,014.65
<i>For Class 52 Rating, Deduct</i>	-1,180.78	
<i>For Class 54 Rating, Add</i>	1,628.61	
<i>For Class 55 Rating, Add</i>	2,430.66	
<i>For Class 56 Rating, Add</i>	3,221.99	
40 05 19 00-2969 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,872.88	1,018.01
<i>For Class 52 Rating, Deduct</i>	-1,246.35	
<i>For Class 54 Rating, Add</i>	1,718.07	
<i>For Class 55 Rating, Add</i>	2,563.70	
<i>For Class 56 Rating, Add</i>	3,398.01	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2970	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,474.00		1,021.38
		<i>For Class 52 Rating, Deduct</i>	-1,311.91		
		<i>For Class 54 Rating, Add</i>	1,807.54		
		<i>For Class 55 Rating, Add</i>	2,696.74		
		<i>For Class 56 Rating, Add</i>	3,574.02		
40 05 19 00-2971	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,075.14		1,024.74
		<i>For Class 52 Rating, Deduct</i>	-1,377.48		
		<i>For Class 54 Rating, Add</i>	1,897.01		
		<i>For Class 55 Rating, Add</i>	2,829.78		
		<i>For Class 56 Rating, Add</i>	3,750.04		
40 05 19 00-2972	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,676.27		1,028.10
		<i>For Class 52 Rating, Deduct</i>	-1,443.04		
		<i>For Class 54 Rating, Add</i>	1,986.48		
		<i>For Class 55 Rating, Add</i>	2,962.82		
		<i>For Class 56 Rating, Add</i>	3,926.05		
40 05 19 00-2973	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,277.40		1,031.45
		<i>For Class 52 Rating, Deduct</i>	-1,508.60		
		<i>For Class 54 Rating, Add</i>	2,075.94		
		<i>For Class 55 Rating, Add</i>	3,095.86		
		<i>For Class 56 Rating, Add</i>	4,102.07		
40 05 19 00-2974	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,878.55		1,034.81
		<i>For Class 52 Rating, Deduct</i>	-1,574.17		
		<i>For Class 54 Rating, Add</i>	2,165.41		
		<i>For Class 55 Rating, Add</i>	3,228.90		
		<i>For Class 56 Rating, Add</i>	4,278.08		
40 05 19 00-2975	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,479.67		1,038.17
		<i>For Class 52 Rating, Deduct</i>	-1,639.73		
		<i>For Class 54 Rating, Add</i>	2,254.88		
		<i>For Class 55 Rating, Add</i>	3,361.94		
		<i>For Class 56 Rating, Add</i>	4,454.10		
40 05 19 00-2976	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,080.80		1,041.53
		<i>For Class 52 Rating, Deduct</i>	-1,705.30		
		<i>For Class 54 Rating, Add</i>	2,344.34		
		<i>For Class 55 Rating, Add</i>	3,494.98		
		<i>For Class 56 Rating, Add</i>	4,630.11		
40 05 19 00-2977	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,681.93		1,044.90
		<i>For Class 52 Rating, Deduct</i>	-1,770.86		
		<i>For Class 54 Rating, Add</i>	2,433.81		
		<i>For Class 55 Rating, Add</i>	3,628.02		
		<i>For Class 56 Rating, Add</i>	4,806.13		
40 05 19 00-2978	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,283.08		1,048.26
		<i>For Class 52 Rating, Deduct</i>	-1,836.43		
		<i>For Class 54 Rating, Add</i>	2,523.28		
		<i>For Class 55 Rating, Add</i>	3,761.06		
		<i>For Class 56 Rating, Add</i>	4,982.15		
40 05 19 00-2979	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,884.20		1,051.61
		<i>For Class 52 Rating, Deduct</i>	-1,901.99		
		<i>For Class 54 Rating, Add</i>	2,612.75		
		<i>For Class 55 Rating, Add</i>	3,894.10		
		<i>For Class 56 Rating, Add</i>	5,158.16		
40 05 19 00-2980	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,485.33		1,054.97
		<i>For Class 52 Rating, Deduct</i>	-1,967.56		
		<i>For Class 54 Rating, Add</i>	2,702.21		
		<i>For Class 55 Rating, Add</i>	4,027.14		
		<i>For Class 56 Rating, Add</i>	5,334.18		
40 05 19 00-2981	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,086.46		1,058.33
		<i>For Class 52 Rating, Deduct</i>	-2,033.12		
		<i>For Class 54 Rating, Add</i>	2,791.68		
		<i>For Class 55 Rating, Add</i>	4,160.18		
		<i>For Class 56 Rating, Add</i>	5,510.19		
40 05 19 00-2982	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,687.60		1,061.69
		<i>For Class 52 Rating, Deduct</i>	-2,098.69		
		<i>For Class 54 Rating, Add</i>	2,881.15		
		<i>For Class 55 Rating, Add</i>	4,293.22		
		<i>For Class 56 Rating, Add</i>	5,686.21		
40 05 19 00-2983	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,288.74		1,065.05
		<i>For Class 52 Rating, Deduct</i>	-2,164.25		
		<i>For Class 54 Rating, Add</i>	2,970.62		
		<i>For Class 55 Rating, Add</i>	4,426.26		
		<i>For Class 56 Rating, Add</i>	5,862.22		



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2984 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,889.86	1,068.42
<i>For Class 52 Rating, Deduct</i>	-2,229.82	
<i>For Class 54 Rating, Add</i>	3,060.08	
<i>For Class 55 Rating, Add</i>	4,559.30	
<i>For Class 56 Rating, Add</i>	6,038.24	
40 05 19 00-2985 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,491.00	1,071.77
<i>For Class 52 Rating, Deduct</i>	-2,295.38	
<i>For Class 54 Rating, Add</i>	3,149.55	
<i>For Class 55 Rating, Add</i>	4,692.34	
<i>For Class 56 Rating, Add</i>	6,214.25	
40 05 19 00-2986 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,092.13	1,075.13
<i>For Class 52 Rating, Deduct</i>	-2,360.95	
<i>For Class 54 Rating, Add</i>	3,239.02	
<i>For Class 55 Rating, Add</i>	4,825.38	
<i>For Class 56 Rating, Add</i>	6,390.27	
40 05 19 00-2987 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,779.81	1,135.60
<i>For Class 52 Rating, Deduct</i>	-2,426.51	
<i>For Class 54 Rating, Add</i>	3,329.53	
<i>For Class 55 Rating, Add</i>	4,960.49	
<i>For Class 56 Rating, Add</i>	6,569.40	
40 05 19 00-2988 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,380.94	1,138.97
<i>For Class 52 Rating, Deduct</i>	-2,492.08	
<i>For Class 54 Rating, Add</i>	3,418.99	
<i>For Class 55 Rating, Add</i>	5,093.53	
<i>For Class 56 Rating, Add</i>	6,745.42	
40 05 19 00-2989 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,982.07	1,142.33
<i>For Class 52 Rating, Deduct</i>	-2,557.64	
<i>For Class 54 Rating, Add</i>	3,508.46	
<i>For Class 55 Rating, Add</i>	5,226.57	
<i>For Class 56 Rating, Add</i>	6,921.43	
40 05 19 00-2990 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,583.20	1,145.69
<i>For Class 52 Rating, Deduct</i>	-2,623.20	
<i>For Class 54 Rating, Add</i>	3,597.93	
<i>For Class 55 Rating, Add</i>	5,359.61	
<i>For Class 56 Rating, Add</i>	7,097.45	
40 05 19 00-2991 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,184.33	1,149.05
<i>For Class 52 Rating, Deduct</i>	-2,688.77	
<i>For Class 54 Rating, Add</i>	3,687.39	
<i>For Class 55 Rating, Add</i>	5,492.65	
<i>For Class 56 Rating, Add</i>	7,273.46	
40 05 19 00-2992 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,782.66	1,152.41
<i>For Class 52 Rating, Deduct</i>	-2,754.02	
<i>For Class 54 Rating, Add</i>	3,776.44	
<i>For Class 55 Rating, Add</i>	5,625.07	
<i>For Class 56 Rating, Add</i>	7,448.65	
40 05 19 00-2993 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,386.61	1,155.76
<i>For Class 52 Rating, Deduct</i>	-2,819.90	
<i>For Class 54 Rating, Add</i>	3,866.33	
<i>For Class 55 Rating, Add</i>	5,758.73	
<i>For Class 56 Rating, Add</i>	7,625.50	
40 05 19 00-2994 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,987.73	1,159.12
<i>For Class 52 Rating, Deduct</i>	-2,885.46	
<i>For Class 54 Rating, Add</i>	3,955.80	
<i>For Class 55 Rating, Add</i>	5,891.77	
<i>For Class 56 Rating, Add</i>	7,801.51	
40 05 19 00-2995 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,588.86	1,162.49
<i>For Class 52 Rating, Deduct</i>	-2,951.03	
<i>For Class 54 Rating, Add</i>	4,045.26	
<i>For Class 55 Rating, Add</i>	6,024.81	
<i>For Class 56 Rating, Add</i>	7,977.53	
40 05 19 00-2996 30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2997 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,615.32	1,384.23
<i>For Class 52 Rating, Deduct</i>	-826.98	
<i>For Class 54 Rating, Add</i>	1,152.87	
<i>For Class 55 Rating, Add</i>	1,726.85	
<i>For Class 56 Rating, Add</i>	2,293.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2998	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,475.13		1,387.59
		<i>For Class 52 Rating, Deduct</i>	-921.00		
		<i>For Class 54 Rating, Add</i>	1,281.14		
		<i>For Class 55 Rating, Add</i>	1,917.57		
		<i>For Class 56 Rating, Add</i>	2,545.64		
40 05 19 00-2999	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,334.91		1,390.95
		<i>For Class 52 Rating, Deduct</i>	-1,015.02		
		<i>For Class 54 Rating, Add</i>	1,409.40		
		<i>For Class 55 Rating, Add</i>	2,108.29		
		<i>For Class 56 Rating, Add</i>	2,797.96		
40 05 19 00-3000	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,194.70		1,394.31
		<i>For Class 52 Rating, Deduct</i>	-1,109.03		
		<i>For Class 54 Rating, Add</i>	1,537.67		
		<i>For Class 55 Rating, Add</i>	2,299.01		
		<i>For Class 56 Rating, Add</i>	3,050.28		
40 05 19 00-3001	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,054.50		1,397.68
		<i>For Class 52 Rating, Deduct</i>	-1,203.05		
		<i>For Class 54 Rating, Add</i>	1,665.93		
		<i>For Class 55 Rating, Add</i>	2,489.73		
		<i>For Class 56 Rating, Add</i>	3,302.60		
40 05 19 00-3002	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,914.29		1,401.03
		<i>For Class 52 Rating, Deduct</i>	-1,297.07		
		<i>For Class 54 Rating, Add</i>	1,794.20		
		<i>For Class 55 Rating, Add</i>	2,680.45		
		<i>For Class 56 Rating, Add</i>	3,554.92		
40 05 19 00-3003	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,774.08		1,404.39
		<i>For Class 52 Rating, Deduct</i>	-1,391.08		
		<i>For Class 54 Rating, Add</i>	1,922.47		
		<i>For Class 55 Rating, Add</i>	2,871.18		
		<i>For Class 56 Rating, Add</i>	3,807.24		
40 05 19 00-3004	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,633.87		1,407.75
		<i>For Class 52 Rating, Deduct</i>	-1,485.10		
		<i>For Class 54 Rating, Add</i>	2,050.73		
		<i>For Class 55 Rating, Add</i>	3,061.90		
		<i>For Class 56 Rating, Add</i>	4,059.56		
40 05 19 00-3005	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,493.67		1,411.11
		<i>For Class 52 Rating, Deduct</i>	-1,579.12		
		<i>For Class 54 Rating, Add</i>	2,179.00		
		<i>For Class 55 Rating, Add</i>	3,252.62		
		<i>For Class 56 Rating, Add</i>	4,311.88		
40 05 19 00-3006	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,353.46		1,414.47
		<i>For Class 52 Rating, Deduct</i>	-1,673.14		
		<i>For Class 54 Rating, Add</i>	2,307.27		
		<i>For Class 55 Rating, Add</i>	3,443.34		
		<i>For Class 56 Rating, Add</i>	4,564.20		
40 05 19 00-3007	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,213.26		1,417.83
		<i>For Class 52 Rating, Deduct</i>	-1,767.15		
		<i>For Class 54 Rating, Add</i>	2,435.53		
		<i>For Class 55 Rating, Add</i>	3,634.06		
		<i>For Class 56 Rating, Add</i>	4,816.52		
40 05 19 00-3008	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,073.04		1,421.19
		<i>For Class 52 Rating, Deduct</i>	-1,861.17		
		<i>For Class 54 Rating, Add</i>	2,563.80		
		<i>For Class 55 Rating, Add</i>	3,824.78		
		<i>For Class 56 Rating, Add</i>	5,068.84		
40 05 19 00-3009	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,932.84		1,424.55
		<i>For Class 52 Rating, Deduct</i>	-1,955.19		
		<i>For Class 54 Rating, Add</i>	2,692.07		
		<i>For Class 55 Rating, Add</i>	4,015.50		
		<i>For Class 56 Rating, Add</i>	5,321.16		
40 05 19 00-3010	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,792.63		1,427.91
		<i>For Class 52 Rating, Deduct</i>	-2,049.20		
		<i>For Class 54 Rating, Add</i>	2,820.33		
		<i>For Class 55 Rating, Add</i>	4,206.22		
		<i>For Class 56 Rating, Add</i>	5,573.48		
40 05 19 00-3011	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,652.42		1,431.27
		<i>For Class 52 Rating, Deduct</i>	-2,143.22		
		<i>For Class 54 Rating, Add</i>	2,948.60		
		<i>For Class 55 Rating, Add</i>	4,396.94		
		<i>For Class 56 Rating, Add</i>	5,825.80		



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3012 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,512.22	1,434.63
<i>For Class 52 Rating, Deduct</i>	-2,237.24	
<i>For Class 54 Rating, Add</i>	3,076.87	
<i>For Class 55 Rating, Add</i>	4,587.66	
<i>For Class 56 Rating, Add</i>	6,078.12	
40 05 19 00-3013 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,372.01	1,437.99
<i>For Class 52 Rating, Deduct</i>	-2,331.26	
<i>For Class 54 Rating, Add</i>	3,205.13	
<i>For Class 55 Rating, Add</i>	4,778.38	
<i>For Class 56 Rating, Add</i>	6,330.44	
40 05 19 00-3014 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,231.80	1,441.34
<i>For Class 52 Rating, Deduct</i>	-2,425.27	
<i>For Class 54 Rating, Add</i>	3,333.40	
<i>For Class 55 Rating, Add</i>	4,969.10	
<i>For Class 56 Rating, Add</i>	6,582.76	
40 05 19 00-3015 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,091.59	1,444.71
<i>For Class 52 Rating, Deduct</i>	-2,519.29	
<i>For Class 54 Rating, Add</i>	3,461.66	
<i>For Class 55 Rating, Add</i>	5,159.82	
<i>For Class 56 Rating, Add</i>	6,835.08	
40 05 19 00-3016 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,951.39	1,448.07
<i>For Class 52 Rating, Deduct</i>	-2,613.31	
<i>For Class 54 Rating, Add</i>	3,589.93	
<i>For Class 55 Rating, Add</i>	5,350.54	
<i>For Class 56 Rating, Add</i>	7,087.40	
40 05 19 00-3017 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,811.18	1,451.43
<i>For Class 52 Rating, Deduct</i>	-2,707.33	
<i>For Class 54 Rating, Add</i>	3,718.20	
<i>For Class 55 Rating, Add</i>	5,541.27	
<i>For Class 56 Rating, Add</i>	7,339.72	
40 05 19 00-3018 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,670.97	1,454.79
<i>For Class 52 Rating, Deduct</i>	-2,801.34	
<i>For Class 54 Rating, Add</i>	3,846.46	
<i>For Class 55 Rating, Add</i>	5,731.99	
<i>For Class 56 Rating, Add</i>	7,592.04	
40 05 19 00-3019 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,530.77	1,458.15
<i>For Class 52 Rating, Deduct</i>	-2,895.36	
<i>For Class 54 Rating, Add</i>	3,974.73	
<i>For Class 55 Rating, Add</i>	5,922.71	
<i>For Class 56 Rating, Add</i>	7,844.36	
40 05 19 00-3020 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,390.56	1,461.50
<i>For Class 52 Rating, Deduct</i>	-2,989.38	
<i>For Class 54 Rating, Add</i>	4,103.00	
<i>For Class 55 Rating, Add</i>	6,113.43	
<i>For Class 56 Rating, Add</i>	8,096.68	
40 05 19 00-3021 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,250.34	1,464.86
<i>For Class 52 Rating, Deduct</i>	-3,083.39	
<i>For Class 54 Rating, Add</i>	4,231.26	
<i>For Class 55 Rating, Add</i>	6,304.15	
<i>For Class 56 Rating, Add</i>	8,349.00	
40 05 19 00-3022 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,110.14	1,468.23
<i>For Class 52 Rating, Deduct</i>	-3,177.41	
<i>For Class 54 Rating, Add</i>	4,359.53	
<i>For Class 55 Rating, Add</i>	6,494.87	
<i>For Class 56 Rating, Add</i>	8,601.33	
40 05 19 00-3023 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,969.94	1,471.59
<i>For Class 52 Rating, Deduct</i>	-3,271.43	
<i>For Class 54 Rating, Add</i>	4,487.80	
<i>For Class 55 Rating, Add</i>	6,685.59	
<i>For Class 56 Rating, Add</i>	8,853.65	
40 05 19 00-3024 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,829.73	1,474.95
<i>For Class 52 Rating, Deduct</i>	-3,365.45	
<i>For Class 54 Rating, Add</i>	4,616.06	
<i>For Class 55 Rating, Add</i>	6,876.31	
<i>For Class 56 Rating, Add</i>	9,105.96	
40 05 19 00-3025 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,689.52	1,478.31
<i>For Class 52 Rating, Deduct</i>	-3,459.46	
<i>For Class 54 Rating, Add</i>	4,744.33	
<i>For Class 55 Rating, Add</i>	7,067.03	
<i>For Class 56 Rating, Add</i>	9,358.28	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-3026	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,549.30	1,481.66
		<i>For Class 52 Rating, Deduct</i>	-3,553.48	
		<i>For Class 54 Rating, Add</i>	4,872.59	
		<i>For Class 55 Rating, Add</i>	7,257.75	
		<i>For Class 56 Rating, Add</i>	9,610.60	
40 05 19 00-3027	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,409.11	1,485.02
		<i>For Class 52 Rating, Deduct</i>	-3,647.50	
		<i>For Class 54 Rating, Add</i>	5,000.86	
		<i>For Class 55 Rating, Add</i>	7,448.47	
		<i>For Class 56 Rating, Add</i>	9,862.93	
40 05 19 00-3028	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,268.90	1,488.38
		<i>For Class 52 Rating, Deduct</i>	-3,741.51	
		<i>For Class 54 Rating, Add</i>	5,129.13	
		<i>For Class 55 Rating, Add</i>	7,639.19	
		<i>For Class 56 Rating, Add</i>	10,115.25	
40 05 19 00-3029	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,128.69	1,491.75
		<i>For Class 52 Rating, Deduct</i>	-3,835.53	
		<i>For Class 54 Rating, Add</i>	5,257.39	
		<i>For Class 55 Rating, Add</i>	7,829.91	
		<i>For Class 56 Rating, Add</i>	10,367.57	
40 05 19 00-3030	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,988.49	1,495.11
		<i>For Class 52 Rating, Deduct</i>	-3,929.55	
		<i>For Class 54 Rating, Add</i>	5,385.66	
		<i>For Class 55 Rating, Add</i>	8,020.63	
		<i>For Class 56 Rating, Add</i>	10,619.89	
40 05 19 00-3031	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,848.28	1,498.47
		<i>For Class 52 Rating, Deduct</i>	-4,023.57	
		<i>For Class 54 Rating, Add</i>	5,513.93	
		<i>For Class 55 Rating, Add</i>	8,211.36	
		<i>For Class 56 Rating, Add</i>	10,872.21	
40 05 19 00-3032		36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-3033	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,287.65	1,753.81
		<i>For Class 52 Rating, Deduct</i>	-1,169.34	
		<i>For Class 54 Rating, Add</i>	1,626.44	
		<i>For Class 55 Rating, Add</i>	2,434.35	
		<i>For Class 56 Rating, Add</i>	3,231.62	
40 05 19 00-3034	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,439.83	1,757.17
		<i>For Class 52 Rating, Deduct</i>	-1,295.52	
		<i>For Class 54 Rating, Add</i>	1,798.57	
		<i>For Class 55 Rating, Add</i>	2,690.27	
		<i>For Class 56 Rating, Add</i>	3,570.20	
40 05 19 00-3035	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,592.03	1,760.53
		<i>For Class 52 Rating, Deduct</i>	-1,421.70	
		<i>For Class 54 Rating, Add</i>	1,970.69	
		<i>For Class 55 Rating, Add</i>	2,946.20	
		<i>For Class 56 Rating, Add</i>	3,908.77	
40 05 19 00-3036	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,744.22	1,763.89
		<i>For Class 52 Rating, Deduct</i>	-1,547.88	
		<i>For Class 54 Rating, Add</i>	2,142.82	
		<i>For Class 55 Rating, Add</i>	3,202.12	
		<i>For Class 56 Rating, Add</i>	4,247.35	
40 05 19 00-3037	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,896.41	1,767.24
		<i>For Class 52 Rating, Deduct</i>	-1,674.06	
		<i>For Class 54 Rating, Add</i>	2,314.95	
		<i>For Class 55 Rating, Add</i>	3,458.05	
		<i>For Class 56 Rating, Add</i>	4,585.93	
40 05 19 00-3038	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,048.60	1,770.61
		<i>For Class 52 Rating, Deduct</i>	-1,800.24	
		<i>For Class 54 Rating, Add</i>	2,487.07	
		<i>For Class 55 Rating, Add</i>	3,713.97	
		<i>For Class 56 Rating, Add</i>	4,924.51	
40 05 19 00-3039	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,200.79	1,773.97
		<i>For Class 52 Rating, Deduct</i>	-1,926.43	
		<i>For Class 54 Rating, Add</i>	2,659.20	
		<i>For Class 55 Rating, Add</i>	3,969.90	
		<i>For Class 56 Rating, Add</i>	5,263.09	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3040 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,352.98	1,777.33
<i>For Class 52 Rating, Deduct</i>	-2,052.61	
<i>For Class 54 Rating, Add</i>	2,831.32	
<i>For Class 55 Rating, Add</i>	4,225.82	
<i>For Class 56 Rating, Add</i>	5,601.66	
40 05 19 00-3041 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,505.17	1,780.69
<i>For Class 52 Rating, Deduct</i>	-2,178.79	
<i>For Class 54 Rating, Add</i>	3,003.45	
<i>For Class 55 Rating, Add</i>	4,481.75	
<i>For Class 56 Rating, Add</i>	5,940.24	
40 05 19 00-3042 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,657.36	1,784.05
<i>For Class 52 Rating, Deduct</i>	-2,304.97	
<i>For Class 54 Rating, Add</i>	3,175.58	
<i>For Class 55 Rating, Add</i>	4,737.67	
<i>For Class 56 Rating, Add</i>	6,278.82	
40 05 19 00-3043 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,809.55	1,787.40
<i>For Class 52 Rating, Deduct</i>	-2,431.15	
<i>For Class 54 Rating, Add</i>	3,347.70	
<i>For Class 55 Rating, Add</i>	4,993.60	
<i>For Class 56 Rating, Add</i>	6,617.40	
40 05 19 00-3044 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,961.74	1,790.76
<i>For Class 52 Rating, Deduct</i>	-2,557.33	
<i>For Class 54 Rating, Add</i>	3,519.83	
<i>For Class 55 Rating, Add</i>	5,249.53	
<i>For Class 56 Rating, Add</i>	6,955.97	
40 05 19 00-3045 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,113.93	1,794.13
<i>For Class 52 Rating, Deduct</i>	-2,683.51	
<i>For Class 54 Rating, Add</i>	3,691.95	
<i>For Class 55 Rating, Add</i>	5,505.45	
<i>For Class 56 Rating, Add</i>	7,294.55	
40 05 19 00-3046 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,266.13	1,797.49
<i>For Class 52 Rating, Deduct</i>	-2,809.69	
<i>For Class 54 Rating, Add</i>	3,864.08	
<i>For Class 55 Rating, Add</i>	5,761.38	
<i>For Class 56 Rating, Add</i>	7,633.13	
40 05 19 00-3047 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,418.32	1,800.85
<i>For Class 52 Rating, Deduct</i>	-2,935.87	
<i>For Class 54 Rating, Add</i>	4,036.21	
<i>For Class 55 Rating, Add</i>	6,017.30	
<i>For Class 56 Rating, Add</i>	7,971.71	
40 05 19 00-3048 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,570.50	1,804.21
<i>For Class 52 Rating, Deduct</i>	-3,062.05	
<i>For Class 54 Rating, Add</i>	4,208.33	
<i>For Class 55 Rating, Add</i>	6,273.23	
<i>For Class 56 Rating, Add</i>	8,310.28	
40 05 19 00-3049 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,722.69	1,807.56
<i>For Class 52 Rating, Deduct</i>	-3,188.24	
<i>For Class 54 Rating, Add</i>	4,380.46	
<i>For Class 55 Rating, Add</i>	6,529.15	
<i>For Class 56 Rating, Add</i>	8,648.86	
40 05 19 00-3050 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,874.89	1,810.92
<i>For Class 52 Rating, Deduct</i>	-3,314.42	
<i>For Class 54 Rating, Add</i>	4,552.58	
<i>For Class 55 Rating, Add</i>	6,785.08	
<i>For Class 56 Rating, Add</i>	8,987.44	
40 05 19 00-3051 EA 36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,027.08	1,814.28
<i>For Class 52 Rating, Deduct</i>	-3,440.60	
<i>For Class 54 Rating, Add</i>	4,724.71	
<i>For Class 55 Rating, Add</i>	7,041.00	
<i>For Class 56 Rating, Add</i>	9,326.02	
40 05 19 00-3052 EA 36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,179.26	1,817.65
<i>For Class 52 Rating, Deduct</i>	-3,566.78	
<i>For Class 54 Rating, Add</i>	4,896.84	
<i>For Class 55 Rating, Add</i>	7,296.93	
<i>For Class 56 Rating, Add</i>	9,664.60	
40 05 19 00-3053 EA 36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,331.46	1,821.01
<i>For Class 52 Rating, Deduct</i>	-3,692.96	
<i>For Class 54 Rating, Add</i>	5,068.96	
<i>For Class 55 Rating, Add</i>	7,552.85	
<i>For Class 56 Rating, Add</i>	10,003.17	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3054	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		37,483.65	1,824.37
		<i>For Class 52 Rating, Deduct</i>		-3,819.14	
		<i>For Class 54 Rating, Add</i>		5,241.09	
		<i>For Class 55 Rating, Add</i>		7,808.78	
		<i>For Class 56 Rating, Add</i>		10,341.75	
40 05 19 00-3055	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		38,635.84	1,827.72
		<i>For Class 52 Rating, Deduct</i>		-3,945.32	
		<i>For Class 54 Rating, Add</i>		5,413.22	
		<i>For Class 55 Rating, Add</i>		8,064.71	
		<i>For Class 56 Rating, Add</i>		10,680.33	
40 05 19 00-3056	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		39,788.03	1,831.08
		<i>For Class 52 Rating, Deduct</i>		-4,071.50	
		<i>For Class 54 Rating, Add</i>		5,585.34	
		<i>For Class 55 Rating, Add</i>		8,320.63	
		<i>For Class 56 Rating, Add</i>		11,018.91	
40 05 19 00-3057	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		40,940.22	1,834.44
		<i>For Class 52 Rating, Deduct</i>		-4,197.68	
		<i>For Class 54 Rating, Add</i>		5,757.47	
		<i>For Class 55 Rating, Add</i>		8,576.56	
		<i>For Class 56 Rating, Add</i>		11,357.48	
40 05 19 00-3058	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		42,092.41	1,837.80
		<i>For Class 52 Rating, Deduct</i>		-4,323.86	
		<i>For Class 54 Rating, Add</i>		5,929.59	
		<i>For Class 55 Rating, Add</i>		8,832.48	
		<i>For Class 56 Rating, Add</i>		11,696.06	
40 05 19 00-3059	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		43,244.60	1,841.17
		<i>For Class 52 Rating, Deduct</i>		-4,450.05	
		<i>For Class 54 Rating, Add</i>		6,101.72	
		<i>For Class 55 Rating, Add</i>		9,088.41	
		<i>For Class 56 Rating, Add</i>		12,034.64	
40 05 19 00-3060	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		44,396.79	1,844.53
		<i>For Class 52 Rating, Deduct</i>		-4,576.23	
		<i>For Class 54 Rating, Add</i>		6,273.85	
		<i>For Class 55 Rating, Add</i>		9,344.33	
		<i>For Class 56 Rating, Add</i>		12,373.22	
40 05 19 00-3061	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		45,548.98	1,847.88
		<i>For Class 52 Rating, Deduct</i>		-4,702.41	
		<i>For Class 54 Rating, Add</i>		6,445.97	
		<i>For Class 55 Rating, Add</i>		9,600.26	
		<i>For Class 56 Rating, Add</i>		12,711.80	
40 05 19 00-3062	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		46,701.17	1,851.24
		<i>For Class 52 Rating, Deduct</i>		-4,828.59	
		<i>For Class 54 Rating, Add</i>		6,618.10	
		<i>For Class 55 Rating, Add</i>		9,856.18	
		<i>For Class 56 Rating, Add</i>		13,050.37	
40 05 19 00-3063	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		47,853.36	1,854.60
		<i>For Class 52 Rating, Deduct</i>		-4,954.77	
		<i>For Class 54 Rating, Add</i>		6,790.22	
		<i>For Class 55 Rating, Add</i>		10,112.11	
		<i>For Class 56 Rating, Add</i>		13,388.95	
40 05 19 00-3064	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		49,005.56	1,857.96
		<i>For Class 52 Rating, Deduct</i>		-5,080.95	
		<i>For Class 54 Rating, Add</i>		6,962.35	
		<i>For Class 55 Rating, Add</i>		10,368.03	
		<i>For Class 56 Rating, Add</i>		13,727.53	
40 05 19 00-3065	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		50,157.75	1,861.32
		<i>For Class 52 Rating, Deduct</i>		-5,207.13	
		<i>For Class 54 Rating, Add</i>		7,134.48	
		<i>For Class 55 Rating, Add</i>		10,623.96	
		<i>For Class 56 Rating, Add</i>		14,066.11	
40 05 19 00-3066	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		51,309.93	1,864.69
		<i>For Class 52 Rating, Deduct</i>		-5,333.31	
		<i>For Class 54 Rating, Add</i>		7,306.60	
		<i>For Class 55 Rating, Add</i>		10,879.89	
		<i>For Class 56 Rating, Add</i>		14,404.68	
40 05 19 00-3067	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		52,462.12	1,868.04
		<i>For Class 52 Rating, Deduct</i>		-5,459.49	
		<i>For Class 54 Rating, Add</i>		7,478.73	
		<i>For Class 55 Rating, Add</i>		11,135.81	
		<i>For Class 56 Rating, Add</i>		14,743.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3068 Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
40 05 19 00-3069 4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3070 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	724.10	164.32
<i>For Class 52 Rating, Deduct</i>	-52.27	
<i>For Class 54 Rating, Add</i>	74.26	
<i>For Class 55 Rating, Add</i>	111.93	
<i>For Class 56 Rating, Add</i>	149.13	
40 05 19 00-3071 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	835.28	167.18
<i>For Class 52 Rating, Deduct</i>	-64.02	
<i>For Class 54 Rating, Add</i>	90.34	
<i>For Class 55 Rating, Add</i>	135.86	
<i>For Class 56 Rating, Add</i>	180.80	
40 05 19 00-3072 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	946.48	170.06
<i>For Class 52 Rating, Deduct</i>	-75.77	
<i>For Class 54 Rating, Add</i>	106.41	
<i>For Class 55 Rating, Add</i>	159.79	
<i>For Class 56 Rating, Add</i>	212.48	
40 05 19 00-3073 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,057.68	172.93
<i>For Class 52 Rating, Deduct</i>	-87.52	
<i>For Class 54 Rating, Add</i>	122.49	
<i>For Class 55 Rating, Add</i>	183.72	
<i>For Class 56 Rating, Add</i>	244.15	
40 05 19 00-3074 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,168.87	175.81
<i>For Class 52 Rating, Deduct</i>	-99.28	
<i>For Class 54 Rating, Add</i>	138.57	
<i>For Class 55 Rating, Add</i>	207.65	
<i>For Class 56 Rating, Add</i>	275.83	
40 05 19 00-3075 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,280.06	178.68
<i>For Class 52 Rating, Deduct</i>	-111.03	
<i>For Class 54 Rating, Add</i>	154.65	
<i>For Class 55 Rating, Add</i>	231.58	
<i>For Class 56 Rating, Add</i>	307.50	
40 05 19 00-3076 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,391.24	181.55
<i>For Class 52 Rating, Deduct</i>	-122.78	
<i>For Class 54 Rating, Add</i>	170.73	
<i>For Class 55 Rating, Add</i>	255.51	
<i>For Class 56 Rating, Add</i>	339.17	
40 05 19 00-3077 EA 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,502.43	184.42
<i>For Class 52 Rating, Deduct</i>	-134.53	
<i>For Class 54 Rating, Add</i>	186.80	
<i>For Class 55 Rating, Add</i>	279.44	
<i>For Class 56 Rating, Add</i>	370.85	
40 05 19 00-3078 EA 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,613.62	187.30
<i>For Class 52 Rating, Deduct</i>	-146.28	
<i>For Class 54 Rating, Add</i>	202.88	
<i>For Class 55 Rating, Add</i>	303.37	
<i>For Class 56 Rating, Add</i>	402.52	
40 05 19 00-3079 EA 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,724.81	190.17
<i>For Class 52 Rating, Deduct</i>	-158.04	
<i>For Class 54 Rating, Add</i>	218.96	
<i>For Class 55 Rating, Add</i>	327.30	
<i>For Class 56 Rating, Add</i>	434.20	
40 05 19 00-3080 EA 4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,836.00	193.03
<i>For Class 52 Rating, Deduct</i>	-169.79	
<i>For Class 54 Rating, Add</i>	235.04	
<i>For Class 55 Rating, Add</i>	351.22	
<i>For Class 56 Rating, Add</i>	465.87	
40 05 19 00-3081 EA 4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,947.20	195.91
<i>For Class 52 Rating, Deduct</i>	-181.54	
<i>For Class 54 Rating, Add</i>	251.12	
<i>For Class 55 Rating, Add</i>	375.15	
<i>For Class 56 Rating, Add</i>	497.54	
40 05 19 00-3082 EA 4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,058.39	198.79
<i>For Class 52 Rating, Deduct</i>	-193.29	
<i>For Class 54 Rating, Add</i>	267.19	
<i>For Class 55 Rating, Add</i>	399.08	
<i>For Class 56 Rating, Add</i>	529.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3083	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,169.58	201.66
		<i>For Class 52 Rating, Deduct</i>		-205.04	
		<i>For Class 54 Rating, Add</i>		283.27	
		<i>For Class 55 Rating, Add</i>		423.01	
		<i>For Class 56 Rating, Add</i>		560.89	
40 05 19 00-3084	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,280.77	204.53
		<i>For Class 52 Rating, Deduct</i>		-216.80	
		<i>For Class 54 Rating, Add</i>		299.35	
		<i>For Class 55 Rating, Add</i>		446.94	
		<i>For Class 56 Rating, Add</i>		592.57	
40 05 19 00-3085	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,391.95	207.40
		<i>For Class 52 Rating, Deduct</i>		-228.55	
		<i>For Class 54 Rating, Add</i>		315.43	
		<i>For Class 55 Rating, Add</i>		470.87	
		<i>For Class 56 Rating, Add</i>		624.24	
40 05 19 00-3086	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,503.14	210.28
		<i>For Class 52 Rating, Deduct</i>		-240.30	
		<i>For Class 54 Rating, Add</i>		331.51	
		<i>For Class 55 Rating, Add</i>		494.80	
		<i>For Class 56 Rating, Add</i>		655.91	
40 05 19 00-3087	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,614.33	213.14
		<i>For Class 52 Rating, Deduct</i>		-252.05	
		<i>For Class 54 Rating, Add</i>		347.58	
		<i>For Class 55 Rating, Add</i>		518.73	
		<i>For Class 56 Rating, Add</i>		687.59	
40 05 19 00-3088	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,725.53	216.02
		<i>For Class 52 Rating, Deduct</i>		-263.81	
		<i>For Class 54 Rating, Add</i>		363.66	
		<i>For Class 55 Rating, Add</i>		542.66	
		<i>For Class 56 Rating, Add</i>		719.26	
40 05 19 00-3089	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,836.71	218.90
		<i>For Class 52 Rating, Deduct</i>		-275.56	
		<i>For Class 54 Rating, Add</i>		379.74	
		<i>For Class 55 Rating, Add</i>		566.59	
		<i>For Class 56 Rating, Add</i>		750.93	
40 05 19 00-3090	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,947.91	221.77
		<i>For Class 52 Rating, Deduct</i>		-287.31	
		<i>For Class 54 Rating, Add</i>		395.82	
		<i>For Class 55 Rating, Add</i>		590.52	
		<i>For Class 56 Rating, Add</i>		782.61	
40 05 19 00-3091	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,059.10	224.63
		<i>For Class 52 Rating, Deduct</i>		-299.06	
		<i>For Class 54 Rating, Add</i>		411.90	
		<i>For Class 55 Rating, Add</i>		614.45	
		<i>For Class 56 Rating, Add</i>		814.28	
40 05 19 00-3092	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,170.29	227.51
		<i>For Class 52 Rating, Deduct</i>		-310.81	
		<i>For Class 54 Rating, Add</i>		427.97	
		<i>For Class 55 Rating, Add</i>		638.38	
		<i>For Class 56 Rating, Add</i>		845.96	
40 05 19 00-3093	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,281.48	230.39
		<i>For Class 52 Rating, Deduct</i>		-322.57	
		<i>For Class 54 Rating, Add</i>		444.05	
		<i>For Class 55 Rating, Add</i>		662.31	
		<i>For Class 56 Rating, Add</i>		877.63	
40 05 19 00-3094	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,668.19	233.25
		<i>For Class 52 Rating, Deduct</i>		-364.63	
		<i>For Class 54 Rating, Add</i>		501.46	
		<i>For Class 55 Rating, Add</i>		747.68	
		<i>For Class 56 Rating, Add</i>		990.58	
40 05 19 00-3095	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,779.38	236.12
		<i>For Class 52 Rating, Deduct</i>		-376.38	
		<i>For Class 54 Rating, Add</i>		517.54	
		<i>For Class 55 Rating, Add</i>		771.61	
		<i>For Class 56 Rating, Add</i>		1,022.26	
40 05 19 00-3096	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,890.58	239.00
		<i>For Class 52 Rating, Deduct</i>		-388.13	
		<i>For Class 54 Rating, Add</i>		533.61	
		<i>For Class 55 Rating, Add</i>		795.54	
		<i>For Class 56 Rating, Add</i>		1,053.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3097 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,001.77	241.88
<i>For Class 52 Rating, Deduct</i>	-399.88	
<i>For Class 54 Rating, Add</i>	549.69	
<i>For Class 55 Rating, Add</i>	819.47	
<i>For Class 56 Rating, Add</i>	1,085.61	
40 05 19 00-3098 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,112.96	244.75
<i>For Class 52 Rating, Deduct</i>	-411.63	
<i>For Class 54 Rating, Add</i>	565.77	
<i>For Class 55 Rating, Add</i>	843.39	
<i>For Class 56 Rating, Add</i>	1,117.28	
40 05 19 00-3099 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,224.15	247.61
<i>For Class 52 Rating, Deduct</i>	-423.39	
<i>For Class 54 Rating, Add</i>	581.85	
<i>For Class 55 Rating, Add</i>	867.32	
<i>For Class 56 Rating, Add</i>	1,148.95	
40 05 19 00-3100 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,335.34	250.49
<i>For Class 52 Rating, Deduct</i>	-435.14	
<i>For Class 54 Rating, Add</i>	597.93	
<i>For Class 55 Rating, Add</i>	891.25	
<i>For Class 56 Rating, Add</i>	1,180.63	
40 05 19 00-3101 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,446.53	253.37
<i>For Class 52 Rating, Deduct</i>	-446.89	
<i>For Class 54 Rating, Add</i>	614.00	
<i>For Class 55 Rating, Add</i>	915.18	
<i>For Class 56 Rating, Add</i>	1,212.30	
40 05 19 00-3102 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,557.71	256.24
<i>For Class 52 Rating, Deduct</i>	-458.64	
<i>For Class 54 Rating, Add</i>	630.08	
<i>For Class 55 Rating, Add</i>	939.11	
<i>For Class 56 Rating, Add</i>	1,243.97	
40 05 19 00-3103 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,668.90	259.12
<i>For Class 52 Rating, Deduct</i>	-470.40	
<i>For Class 54 Rating, Add</i>	646.16	
<i>For Class 55 Rating, Add</i>	963.04	
<i>For Class 56 Rating, Add</i>	1,275.65	
40 05 19 00-3104 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,780.10	261.98
<i>For Class 52 Rating, Deduct</i>	-482.15	
<i>For Class 54 Rating, Add</i>	662.24	
<i>For Class 55 Rating, Add</i>	986.97	
<i>For Class 56 Rating, Add</i>	1,307.32	
40 05 19 00-3105 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,891.29	264.85
<i>For Class 52 Rating, Deduct</i>	-493.90	
<i>For Class 54 Rating, Add</i>	678.32	
<i>For Class 55 Rating, Add</i>	1,010.90	
<i>For Class 56 Rating, Add</i>	1,339.00	
40 05 19 00-3106 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,002.48	267.73
<i>For Class 52 Rating, Deduct</i>	-505.65	
<i>For Class 54 Rating, Add</i>	694.39	
<i>For Class 55 Rating, Add</i>	1,034.83	
<i>For Class 56 Rating, Add</i>	1,370.67	
40 05 19 00-3107 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,113.67	270.61
<i>For Class 52 Rating, Deduct</i>	-517.40	
<i>For Class 54 Rating, Add</i>	710.47	
<i>For Class 55 Rating, Add</i>	1,058.76	
<i>For Class 56 Rating, Add</i>	1,402.34	
40 05 19 00-3108 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,224.86	273.48
<i>For Class 52 Rating, Deduct</i>	-529.16	
<i>For Class 54 Rating, Add</i>	726.55	
<i>For Class 55 Rating, Add</i>	1,082.69	
<i>For Class 56 Rating, Add</i>	1,434.02	
40 05 19 00-3109 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3110 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	889.73	206.83
<i>For Class 52 Rating, Deduct</i>	-63.40	
<i>For Class 54 Rating, Add</i>	90.21	
<i>For Class 55 Rating, Add</i>	136.05	
<i>For Class 56 Rating, Add</i>	181.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3111	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,017.80	209.70
		<i>For Class 52 Rating, Deduct</i>		-77.01	
		<i>For Class 54 Rating, Add</i>		108.82	
		<i>For Class 55 Rating, Add</i>		163.74	
		<i>For Class 56 Rating, Add</i>		217.96	
40 05 19 00-3112	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,145.86	212.57
		<i>For Class 52 Rating, Deduct</i>		-90.62	
		<i>For Class 54 Rating, Add</i>		127.43	
		<i>For Class 55 Rating, Add</i>		191.43	
		<i>For Class 56 Rating, Add</i>		254.61	
40 05 19 00-3113	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,273.92	215.45
		<i>For Class 52 Rating, Deduct</i>		-104.22	
		<i>For Class 54 Rating, Add</i>		146.04	
		<i>For Class 55 Rating, Add</i>		219.12	
		<i>For Class 56 Rating, Add</i>		291.26	
40 05 19 00-3114	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,401.98	218.33
		<i>For Class 52 Rating, Deduct</i>		-117.83	
		<i>For Class 54 Rating, Add</i>		164.65	
		<i>For Class 55 Rating, Add</i>		246.81	
		<i>For Class 56 Rating, Add</i>		327.91	
40 05 19 00-3115	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,530.04	221.18
		<i>For Class 52 Rating, Deduct</i>		-131.44	
		<i>For Class 54 Rating, Add</i>		183.26	
		<i>For Class 55 Rating, Add</i>		274.51	
		<i>For Class 56 Rating, Add</i>		364.56	
40 05 19 00-3116	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,658.09	224.06
		<i>For Class 52 Rating, Deduct</i>		-145.05	
		<i>For Class 54 Rating, Add</i>		201.86	
		<i>For Class 55 Rating, Add</i>		302.20	
		<i>For Class 56 Rating, Add</i>		401.21	
40 05 19 00-3117	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,786.15	226.94
		<i>For Class 52 Rating, Deduct</i>		-158.65	
		<i>For Class 54 Rating, Add</i>		220.47	
		<i>For Class 55 Rating, Add</i>		329.89	
		<i>For Class 56 Rating, Add</i>		437.86	
40 05 19 00-3118	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,914.21	229.82
		<i>For Class 52 Rating, Deduct</i>		-172.26	
		<i>For Class 54 Rating, Add</i>		239.08	
		<i>For Class 55 Rating, Add</i>		357.58	
		<i>For Class 56 Rating, Add</i>		474.51	
40 05 19 00-3119	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,042.27	232.67
		<i>For Class 52 Rating, Deduct</i>		-185.87	
		<i>For Class 54 Rating, Add</i>		257.69	
		<i>For Class 55 Rating, Add</i>		385.27	
		<i>For Class 56 Rating, Add</i>		511.16	
40 05 19 00-3120	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,170.33	235.55
		<i>For Class 52 Rating, Deduct</i>		-199.48	
		<i>For Class 54 Rating, Add</i>		276.30	
		<i>For Class 55 Rating, Add</i>		412.96	
		<i>For Class 56 Rating, Add</i>		547.81	
40 05 19 00-3121	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,298.40	238.43
		<i>For Class 52 Rating, Deduct</i>		-213.09	
		<i>For Class 54 Rating, Add</i>		294.91	
		<i>For Class 55 Rating, Add</i>		440.65	
		<i>For Class 56 Rating, Add</i>		584.46	
40 05 19 00-3122	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,426.45	241.30
		<i>For Class 52 Rating, Deduct</i>		-226.69	
		<i>For Class 54 Rating, Add</i>		313.51	
		<i>For Class 55 Rating, Add</i>		468.34	
		<i>For Class 56 Rating, Add</i>		621.11	
40 05 19 00-3123	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,554.51	244.17
		<i>For Class 52 Rating, Deduct</i>		-240.30	
		<i>For Class 54 Rating, Add</i>		332.12	
		<i>For Class 55 Rating, Add</i>		496.03	
		<i>For Class 56 Rating, Add</i>		657.76	
40 05 19 00-3124	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,682.57	247.04
		<i>For Class 52 Rating, Deduct</i>		-253.91	
		<i>For Class 54 Rating, Add</i>		350.73	
		<i>For Class 55 Rating, Add</i>		523.73	
		<i>For Class 56 Rating, Add</i>		694.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3125 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,810.62	249.92
<i>For Class 52 Rating, Deduct</i>	-267.52	
<i>For Class 54 Rating, Add</i>	369.34	
<i>For Class 55 Rating, Add</i>	551.41	
<i>For Class 56 Rating, Add</i>	731.06	
40 05 19 00-3126 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,938.68	252.79
<i>For Class 52 Rating, Deduct</i>	-281.12	
<i>For Class 54 Rating, Add</i>	387.95	
<i>For Class 55 Rating, Add</i>	579.11	
<i>For Class 56 Rating, Add</i>	767.71	
40 05 19 00-3127 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,066.74	255.66
<i>For Class 52 Rating, Deduct</i>	-294.73	
<i>For Class 54 Rating, Add</i>	406.56	
<i>For Class 55 Rating, Add</i>	606.80	
<i>For Class 56 Rating, Add</i>	804.36	
40 05 19 00-3128 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,194.81	258.54
<i>For Class 52 Rating, Deduct</i>	-308.34	
<i>For Class 54 Rating, Add</i>	425.16	
<i>For Class 55 Rating, Add</i>	634.49	
<i>For Class 56 Rating, Add</i>	841.01	
40 05 19 00-3129 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,322.87	261.41
<i>For Class 52 Rating, Deduct</i>	-321.95	
<i>For Class 54 Rating, Add</i>	443.77	
<i>For Class 55 Rating, Add</i>	662.18	
<i>For Class 56 Rating, Add</i>	877.66	
40 05 19 00-3130 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,450.93	264.28
<i>For Class 52 Rating, Deduct</i>	-335.56	
<i>For Class 54 Rating, Add</i>	462.38	
<i>For Class 55 Rating, Add</i>	689.87	
<i>For Class 56 Rating, Add</i>	914.31	
40 05 19 00-3131 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,578.99	267.15
<i>For Class 52 Rating, Deduct</i>	-349.16	
<i>For Class 54 Rating, Add</i>	480.99	
<i>For Class 55 Rating, Add</i>	717.56	
<i>For Class 56 Rating, Add</i>	950.96	
40 05 19 00-3132 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,707.04	270.03
<i>For Class 52 Rating, Deduct</i>	-362.77	
<i>For Class 54 Rating, Add</i>	499.60	
<i>For Class 55 Rating, Add</i>	745.25	
<i>For Class 56 Rating, Add</i>	987.61	
40 05 19 00-3133 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,835.10	272.89
<i>For Class 52 Rating, Deduct</i>	-376.38	
<i>For Class 54 Rating, Add</i>	518.20	
<i>For Class 55 Rating, Add</i>	772.94	
<i>For Class 56 Rating, Add</i>	1,024.26	
40 05 19 00-3134 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,963.16	275.77
<i>For Class 52 Rating, Deduct</i>	-389.99	
<i>For Class 54 Rating, Add</i>	536.81	
<i>For Class 55 Rating, Add</i>	800.64	
<i>For Class 56 Rating, Add</i>	1,060.91	
40 05 19 00-3135 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,091.21	278.65
<i>For Class 52 Rating, Deduct</i>	-403.59	
<i>For Class 54 Rating, Add</i>	555.42	
<i>For Class 55 Rating, Add</i>	828.33	
<i>For Class 56 Rating, Add</i>	1,097.56	
40 05 19 00-3136 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,219.29	281.52
<i>For Class 52 Rating, Deduct</i>	-417.20	
<i>For Class 54 Rating, Add</i>	574.03	
<i>For Class 55 Rating, Add</i>	856.02	
<i>For Class 56 Rating, Add</i>	1,134.21	
40 05 19 00-3137 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,347.35	284.39
<i>For Class 52 Rating, Deduct</i>	-430.81	
<i>For Class 54 Rating, Add</i>	592.64	
<i>For Class 55 Rating, Add</i>	883.71	
<i>For Class 56 Rating, Add</i>	1,170.87	
40 05 19 00-3138 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,475.40	287.26
<i>For Class 52 Rating, Deduct</i>	-444.42	
<i>For Class 54 Rating, Add</i>	611.25	
<i>For Class 55 Rating, Add</i>	911.40	
<i>For Class 56 Rating, Add</i>	1,207.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3139	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,603.46	290.14
			<i>For Class 52 Rating, Deduct</i>	-458.02	
			<i>For Class 54 Rating, Add</i>	629.85	
			<i>For Class 55 Rating, Add</i>	939.09	
			<i>For Class 56 Rating, Add</i>	1,244.16	
40 05 19 00-3140	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,731.52	293.00
			<i>For Class 52 Rating, Deduct</i>	-471.63	
			<i>For Class 54 Rating, Add</i>	648.46	
			<i>For Class 55 Rating, Add</i>	966.78	
			<i>For Class 56 Rating, Add</i>	1,280.82	
40 05 19 00-3141	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,859.57	295.88
			<i>For Class 52 Rating, Deduct</i>	-485.24	
			<i>For Class 54 Rating, Add</i>	667.07	
			<i>For Class 55 Rating, Add</i>	994.47	
			<i>For Class 56 Rating, Add</i>	1,317.46	
40 05 19 00-3142	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,987.63	298.76
			<i>For Class 52 Rating, Deduct</i>	-498.85	
			<i>For Class 54 Rating, Add</i>	685.68	
			<i>For Class 55 Rating, Add</i>	1,022.16	
			<i>For Class 56 Rating, Add</i>	1,354.11	
40 05 19 00-3143	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,115.69	301.63
			<i>For Class 52 Rating, Deduct</i>	-512.46	
			<i>For Class 54 Rating, Add</i>	704.29	
			<i>For Class 55 Rating, Add</i>	1,049.86	
			<i>For Class 56 Rating, Add</i>	1,390.77	
40 05 19 00-3144	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,243.76	304.49
			<i>For Class 52 Rating, Deduct</i>	-526.06	
			<i>For Class 54 Rating, Add</i>	722.90	
			<i>For Class 55 Rating, Add</i>	1,077.55	
			<i>For Class 56 Rating, Add</i>	1,427.42	
40 05 19 00-3145	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,371.82	307.37
			<i>For Class 52 Rating, Deduct</i>	-539.67	
			<i>For Class 54 Rating, Add</i>	741.50	
			<i>For Class 55 Rating, Add</i>	1,105.24	
			<i>For Class 56 Rating, Add</i>	1,464.07	
40 05 19 00-3146	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,499.88	310.25
			<i>For Class 52 Rating, Deduct</i>	-553.28	
			<i>For Class 54 Rating, Add</i>	760.11	
			<i>For Class 55 Rating, Add</i>	1,132.93	
			<i>For Class 56 Rating, Add</i>	1,500.72	
40 05 19 00-3147	EA		6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,627.94	313.10
			<i>For Class 52 Rating, Deduct</i>	-566.89	
			<i>For Class 54 Rating, Add</i>	778.72	
			<i>For Class 55 Rating, Add</i>	1,160.62	
			<i>For Class 56 Rating, Add</i>	1,537.37	
40 05 19 00-3148	EA		6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,755.99	315.98
			<i>For Class 52 Rating, Deduct</i>	-580.49	
			<i>For Class 54 Rating, Add</i>	797.33	
			<i>For Class 55 Rating, Add</i>	1,188.31	
			<i>For Class 56 Rating, Add</i>	1,574.02	
40 05 19 00-3149			8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3150	EA		8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,212.96	264.28
			<i>For Class 52 Rating, Deduct</i>	-89.38	
			<i>For Class 54 Rating, Add</i>	126.68	
			<i>For Class 55 Rating, Add</i>	190.80	
			<i>For Class 56 Rating, Add</i>	254.11	
40 05 19 00-3151	EA		8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,377.57	267.15
			<i>For Class 52 Rating, Deduct</i>	-107.01	
			<i>For Class 54 Rating, Add</i>	150.78	
			<i>For Class 55 Rating, Add</i>	226.65	
			<i>For Class 56 Rating, Add</i>	301.55	
40 05 19 00-3152	EA		8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,542.17	270.03
			<i>For Class 52 Rating, Deduct</i>	-124.63	
			<i>For Class 54 Rating, Add</i>	174.87	
			<i>For Class 55 Rating, Add</i>	262.49	
			<i>For Class 56 Rating, Add</i>	348.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3153 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,706.78	272.89
<i>For Class 52 Rating, Deduct</i>	-142.26	
<i>For Class 54 Rating, Add</i>	198.96	
<i>For Class 55 Rating, Add</i>	298.33	
<i>For Class 56 Rating, Add</i>	396.41	
40 05 19 00-3154 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,871.39	275.77
<i>For Class 52 Rating, Deduct</i>	-159.89	
<i>For Class 54 Rating, Add</i>	223.05	
<i>For Class 55 Rating, Add</i>	334.17	
<i>For Class 56 Rating, Add</i>	443.84	
40 05 19 00-3155 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,035.99	278.65
<i>For Class 52 Rating, Deduct</i>	-177.52	
<i>For Class 54 Rating, Add</i>	247.14	
<i>For Class 55 Rating, Add</i>	370.01	
<i>For Class 56 Rating, Add</i>	491.27	
40 05 19 00-3156 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,200.62	281.52
<i>For Class 52 Rating, Deduct</i>	-195.15	
<i>For Class 54 Rating, Add</i>	271.23	
<i>For Class 55 Rating, Add</i>	405.85	
<i>For Class 56 Rating, Add</i>	538.71	
40 05 19 00-3157 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,365.23	284.39
<i>For Class 52 Rating, Deduct</i>	-212.78	
<i>For Class 54 Rating, Add</i>	295.32	
<i>For Class 55 Rating, Add</i>	441.70	
<i>For Class 56 Rating, Add</i>	586.14	
40 05 19 00-3158 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,529.83	287.26
<i>For Class 52 Rating, Deduct</i>	-230.40	
<i>For Class 54 Rating, Add</i>	319.41	
<i>For Class 55 Rating, Add</i>	477.54	
<i>For Class 56 Rating, Add</i>	633.57	
40 05 19 00-3159 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,694.44	290.14
<i>For Class 52 Rating, Deduct</i>	-248.03	
<i>For Class 54 Rating, Add</i>	343.50	
<i>For Class 55 Rating, Add</i>	513.38	
<i>For Class 56 Rating, Add</i>	681.00	
40 05 19 00-3160 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,859.05	293.00
<i>For Class 52 Rating, Deduct</i>	-265.66	
<i>For Class 54 Rating, Add</i>	367.59	
<i>For Class 55 Rating, Add</i>	549.22	
<i>For Class 56 Rating, Add</i>	728.44	
40 05 19 00-3161 EA 8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,023.65	295.88
<i>For Class 52 Rating, Deduct</i>	-283.29	
<i>For Class 54 Rating, Add</i>	391.68	
<i>For Class 55 Rating, Add</i>	585.06	
<i>For Class 56 Rating, Add</i>	775.87	
40 05 19 00-3162 EA 8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,188.26	298.76
<i>For Class 52 Rating, Deduct</i>	-300.92	
<i>For Class 54 Rating, Add</i>	415.77	
<i>For Class 55 Rating, Add</i>	620.90	
<i>For Class 56 Rating, Add</i>	823.30	
40 05 19 00-3163 EA 8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,352.87	301.63
<i>For Class 52 Rating, Deduct</i>	-318.55	
<i>For Class 54 Rating, Add</i>	439.86	
<i>For Class 55 Rating, Add</i>	656.75	
<i>For Class 56 Rating, Add</i>	870.73	
40 05 19 00-3164 EA 8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,517.48	304.49
<i>For Class 52 Rating, Deduct</i>	-336.17	
<i>For Class 54 Rating, Add</i>	463.95	
<i>For Class 55 Rating, Add</i>	692.59	
<i>For Class 56 Rating, Add</i>	918.16	
40 05 19 00-3165 EA 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,682.10	307.37
<i>For Class 52 Rating, Deduct</i>	-353.80	
<i>For Class 54 Rating, Add</i>	488.05	
<i>For Class 55 Rating, Add</i>	728.43	
<i>For Class 56 Rating, Add</i>	965.60	
40 05 19 00-3166 EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,846.71	310.25
<i>For Class 52 Rating, Deduct</i>	-371.43	
<i>For Class 54 Rating, Add</i>	512.14	
<i>For Class 55 Rating, Add</i>	764.27	
<i>For Class 56 Rating, Add</i>	1,013.03	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3167	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,011.31	313.10
		<i>For Class 52 Rating, Deduct</i>		-389.06	
		<i>For Class 54 Rating, Add</i>		536.23	
		<i>For Class 55 Rating, Add</i>		800.11	
		<i>For Class 56 Rating, Add</i>		1,060.46	
40 05 19 00-3168	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,175.92	315.98
		<i>For Class 52 Rating, Deduct</i>		-406.69	
		<i>For Class 54 Rating, Add</i>		560.32	
		<i>For Class 55 Rating, Add</i>		835.95	
		<i>For Class 56 Rating, Add</i>		1,107.89	
40 05 19 00-3169	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,340.53	318.86
		<i>For Class 52 Rating, Deduct</i>		-424.32	
		<i>For Class 54 Rating, Add</i>		584.41	
		<i>For Class 55 Rating, Add</i>		871.80	
		<i>For Class 56 Rating, Add</i>		1,155.33	
40 05 19 00-3170	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,505.13	321.74
		<i>For Class 52 Rating, Deduct</i>		-441.94	
		<i>For Class 54 Rating, Add</i>		608.50	
		<i>For Class 55 Rating, Add</i>		907.64	
		<i>For Class 56 Rating, Add</i>		1,202.76	
40 05 19 00-3171	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,669.74	324.61
		<i>For Class 52 Rating, Deduct</i>		-459.57	
		<i>For Class 54 Rating, Add</i>		632.59	
		<i>For Class 55 Rating, Add</i>		943.48	
		<i>For Class 56 Rating, Add</i>		1,250.19	
40 05 19 00-3172	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,834.36	327.47
		<i>For Class 52 Rating, Deduct</i>		-477.20	
		<i>For Class 54 Rating, Add</i>		656.68	
		<i>For Class 55 Rating, Add</i>		979.32	
		<i>For Class 56 Rating, Add</i>		1,297.63	
40 05 19 00-3173	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,998.97	330.35
		<i>For Class 52 Rating, Deduct</i>		-494.83	
		<i>For Class 54 Rating, Add</i>		680.77	
		<i>For Class 55 Rating, Add</i>		1,015.16	
		<i>For Class 56 Rating, Add</i>		1,345.06	
40 05 19 00-3174	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,163.58	333.23
		<i>For Class 52 Rating, Deduct</i>		-512.46	
		<i>For Class 54 Rating, Add</i>		704.86	
		<i>For Class 55 Rating, Add</i>		1,051.01	
		<i>For Class 56 Rating, Add</i>		1,392.49	
40 05 19 00-3175	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,328.19	336.10
		<i>For Class 52 Rating, Deduct</i>		-530.08	
		<i>For Class 54 Rating, Add</i>		728.95	
		<i>For Class 55 Rating, Add</i>		1,086.85	
		<i>For Class 56 Rating, Add</i>		1,439.92	
40 05 19 00-3176	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,492.79	338.97
		<i>For Class 52 Rating, Deduct</i>		-547.71	
		<i>For Class 54 Rating, Add</i>		753.04	
		<i>For Class 55 Rating, Add</i>		1,122.69	
		<i>For Class 56 Rating, Add</i>		1,487.35	
40 05 19 00-3177	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,657.40	341.84
		<i>For Class 52 Rating, Deduct</i>		-565.34	
		<i>For Class 54 Rating, Add</i>		777.13	
		<i>For Class 55 Rating, Add</i>		1,158.53	
		<i>For Class 56 Rating, Add</i>		1,534.79	
40 05 19 00-3178	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,822.01	344.71
		<i>For Class 52 Rating, Deduct</i>		-582.97	
		<i>For Class 54 Rating, Add</i>		801.23	
		<i>For Class 55 Rating, Add</i>		1,194.37	
		<i>For Class 56 Rating, Add</i>		1,582.22	
40 05 19 00-3179	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,986.61	347.59
		<i>For Class 52 Rating, Deduct</i>		-600.60	
		<i>For Class 54 Rating, Add</i>		825.32	
		<i>For Class 55 Rating, Add</i>		1,230.21	
		<i>For Class 56 Rating, Add</i>		1,629.65	
40 05 19 00-3180	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,151.23	350.46
		<i>For Class 52 Rating, Deduct</i>		-618.23	
		<i>For Class 54 Rating, Add</i>		849.41	
		<i>For Class 55 Rating, Add</i>		1,266.06	
		<i>For Class 56 Rating, Add</i>		1,677.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3181 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,315.84	353.34
<i>For Class 52 Rating, Deduct</i>	-635.85	
<i>For Class 54 Rating, Add</i>	873.50	
<i>For Class 55 Rating, Add</i>	1,301.90	
<i>For Class 56 Rating, Add</i>	1,724.52	
40 05 19 00-3182 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,480.45	356.20
<i>For Class 52 Rating, Deduct</i>	-653.48	
<i>For Class 54 Rating, Add</i>	897.59	
<i>For Class 55 Rating, Add</i>	1,337.74	
<i>For Class 56 Rating, Add</i>	1,771.95	
40 05 19 00-3183 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,645.06	359.08
<i>For Class 52 Rating, Deduct</i>	-671.11	
<i>For Class 54 Rating, Add</i>	921.68	
<i>For Class 55 Rating, Add</i>	1,373.58	
<i>For Class 56 Rating, Add</i>	1,819.38	
40 05 19 00-3184 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,809.67	361.95
<i>For Class 52 Rating, Deduct</i>	-688.74	
<i>For Class 54 Rating, Add</i>	945.77	
<i>For Class 55 Rating, Add</i>	1,409.42	
<i>For Class 56 Rating, Add</i>	1,866.81	
40 05 19 00-3185 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,974.27	364.82
<i>For Class 52 Rating, Deduct</i>	-706.37	
<i>For Class 54 Rating, Add</i>	969.86	
<i>For Class 55 Rating, Add</i>	1,445.26	
<i>For Class 56 Rating, Add</i>	1,914.24	
40 05 19 00-3186 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,138.88	367.69
<i>For Class 52 Rating, Deduct</i>	-723.99	
<i>For Class 54 Rating, Add</i>	993.95	
<i>For Class 55 Rating, Add</i>	1,481.11	
<i>For Class 56 Rating, Add</i>	1,961.68	
40 05 19 00-3187 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,303.48	370.57
<i>For Class 52 Rating, Deduct</i>	-741.62	
<i>For Class 54 Rating, Add</i>	1,018.04	
<i>For Class 55 Rating, Add</i>	1,516.95	
<i>For Class 56 Rating, Add</i>	2,009.11	
40 05 19 00-3188 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,468.10	373.45
<i>For Class 52 Rating, Deduct</i>	-759.25	
<i>For Class 54 Rating, Add</i>	1,042.13	
<i>For Class 55 Rating, Add</i>	1,552.79	
<i>For Class 56 Rating, Add</i>	2,056.54	
40 05 19 00-3189 10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3190 EA 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,530.54	321.74
<i>For Class 52 Rating, Deduct</i>	-114.74	
<i>For Class 54 Rating, Add</i>	162.31	
<i>For Class 55 Rating, Add</i>	244.30	
<i>For Class 56 Rating, Add</i>	325.25	
40 05 19 00-3191 EA 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,742.95	324.61
<i>For Class 52 Rating, Deduct</i>	-137.62	
<i>For Class 54 Rating, Add</i>	193.57	
<i>For Class 55 Rating, Add</i>	290.81	
<i>For Class 56 Rating, Add</i>	386.79	
40 05 19 00-3192 EA 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,955.36	327.47
<i>For Class 52 Rating, Deduct</i>	-160.51	
<i>For Class 54 Rating, Add</i>	224.83	
<i>For Class 55 Rating, Add</i>	337.31	
<i>For Class 56 Rating, Add</i>	448.32	
40 05 19 00-3193 EA 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,167.77	330.35
<i>For Class 52 Rating, Deduct</i>	-183.40	
<i>For Class 54 Rating, Add</i>	256.09	
<i>For Class 55 Rating, Add</i>	383.81	
<i>For Class 56 Rating, Add</i>	509.85	
40 05 19 00-3194 EA 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,380.17	333.23
<i>For Class 52 Rating, Deduct</i>	-206.28	
<i>For Class 54 Rating, Add</i>	287.35	
<i>For Class 55 Rating, Add</i>	430.30	
<i>For Class 56 Rating, Add</i>	571.38	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3195	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,592.58	336.10
		<i>For Class 52 Rating, Deduct</i>		-229.17	
		<i>For Class 54 Rating, Add</i>		318.61	
		<i>For Class 55 Rating, Add</i>		476.81	
		<i>For Class 56 Rating, Add</i>		632.92	
40 05 19 00-3196	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,804.98	338.97
		<i>For Class 52 Rating, Deduct</i>		-252.05	
		<i>For Class 54 Rating, Add</i>		349.87	
		<i>For Class 55 Rating, Add</i>		523.31	
		<i>For Class 56 Rating, Add</i>		694.45	
40 05 19 00-3197	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,017.38	341.84
		<i>For Class 52 Rating, Deduct</i>		-274.94	
		<i>For Class 54 Rating, Add</i>		381.13	
		<i>For Class 55 Rating, Add</i>		569.81	
		<i>For Class 56 Rating, Add</i>		755.98	
40 05 19 00-3198	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,229.78	344.71
		<i>For Class 52 Rating, Deduct</i>		-297.82	
		<i>For Class 54 Rating, Add</i>		412.39	
		<i>For Class 55 Rating, Add</i>		616.31	
		<i>For Class 56 Rating, Add</i>		817.51	
40 05 19 00-3199	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,442.19	347.59
		<i>For Class 52 Rating, Deduct</i>		-320.71	
		<i>For Class 54 Rating, Add</i>		443.65	
		<i>For Class 55 Rating, Add</i>		662.81	
		<i>For Class 56 Rating, Add</i>		879.05	
40 05 19 00-3200	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,654.60	350.46
		<i>For Class 52 Rating, Deduct</i>		-343.60	
		<i>For Class 54 Rating, Add</i>		474.91	
		<i>For Class 55 Rating, Add</i>		709.31	
		<i>For Class 56 Rating, Add</i>		940.58	
40 05 19 00-3201	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,867.00	353.34
		<i>For Class 52 Rating, Deduct</i>		-366.48	
		<i>For Class 54 Rating, Add</i>		506.17	
		<i>For Class 55 Rating, Add</i>		755.81	
		<i>For Class 56 Rating, Add</i>		1,002.11	
40 05 19 00-3202	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,079.41	356.20
		<i>For Class 52 Rating, Deduct</i>		-389.37	
		<i>For Class 54 Rating, Add</i>		537.43	
		<i>For Class 55 Rating, Add</i>		802.31	
		<i>For Class 56 Rating, Add</i>		1,063.64	
40 05 19 00-3203	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,291.82	359.08
		<i>For Class 52 Rating, Deduct</i>		-412.25	
		<i>For Class 54 Rating, Add</i>		568.69	
		<i>For Class 55 Rating, Add</i>		848.81	
		<i>For Class 56 Rating, Add</i>		1,125.18	
40 05 19 00-3204	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,504.22	361.95
		<i>For Class 52 Rating, Deduct</i>		-435.14	
		<i>For Class 54 Rating, Add</i>		599.95	
		<i>For Class 55 Rating, Add</i>		895.31	
		<i>For Class 56 Rating, Add</i>		1,186.71	
40 05 19 00-3205	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,716.62	364.82
		<i>For Class 52 Rating, Deduct</i>		-458.02	
		<i>For Class 54 Rating, Add</i>		631.21	
		<i>For Class 55 Rating, Add</i>		941.81	
		<i>For Class 56 Rating, Add</i>		1,248.24	
40 05 19 00-3206	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,929.02	367.69
		<i>For Class 52 Rating, Deduct</i>		-480.91	
		<i>For Class 54 Rating, Add</i>		662.47	
		<i>For Class 55 Rating, Add</i>		988.31	
		<i>For Class 56 Rating, Add</i>		1,309.77	
40 05 19 00-3207	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,141.43	370.57
		<i>For Class 52 Rating, Deduct</i>		-503.80	
		<i>For Class 54 Rating, Add</i>		693.73	
		<i>For Class 55 Rating, Add</i>		1,034.81	
		<i>For Class 56 Rating, Add</i>		1,371.30	
40 05 19 00-3208	EA	10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,353.84	373.45
		<i>For Class 52 Rating, Deduct</i>		-526.68	
		<i>For Class 54 Rating, Add</i>		724.99	
		<i>For Class 55 Rating, Add</i>		1,081.31	
		<i>For Class 56 Rating, Add</i>		1,432.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3209 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,566.24	376.31
<i>For Class 52 Rating, Deduct</i>	-549.57	
<i>For Class 54 Rating, Add</i>	756.25	
<i>For Class 55 Rating, Add</i>	1,127.81	
<i>For Class 56 Rating, Add</i>	1,494.37	
40 05 19 00-3210 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,778.65	379.19
<i>For Class 52 Rating, Deduct</i>	-572.45	
<i>For Class 54 Rating, Add</i>	787.51	
<i>For Class 55 Rating, Add</i>	1,174.31	
<i>For Class 56 Rating, Add</i>	1,555.90	
40 05 19 00-3211 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,991.06	382.06
<i>For Class 52 Rating, Deduct</i>	-595.34	
<i>For Class 54 Rating, Add</i>	818.77	
<i>For Class 55 Rating, Add</i>	1,220.81	
<i>For Class 56 Rating, Add</i>	1,617.43	
40 05 19 00-3212 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,203.46	384.92
<i>For Class 52 Rating, Deduct</i>	-618.23	
<i>For Class 54 Rating, Add</i>	850.03	
<i>For Class 55 Rating, Add</i>	1,267.31	
<i>For Class 56 Rating, Add</i>	1,678.96	
40 05 19 00-3213 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,415.86	387.80
<i>For Class 52 Rating, Deduct</i>	-641.11	
<i>For Class 54 Rating, Add</i>	881.29	
<i>For Class 55 Rating, Add</i>	1,313.81	
<i>For Class 56 Rating, Add</i>	1,740.50	
40 05 19 00-3214 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,628.26	390.68
<i>For Class 52 Rating, Deduct</i>	-664.00	
<i>For Class 54 Rating, Add</i>	912.55	
<i>For Class 55 Rating, Add</i>	1,360.31	
<i>For Class 56 Rating, Add</i>	1,802.03	
40 05 19 00-3215 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,840.67	393.55
<i>For Class 52 Rating, Deduct</i>	-686.88	
<i>For Class 54 Rating, Add</i>	943.81	
<i>For Class 55 Rating, Add</i>	1,406.81	
<i>For Class 56 Rating, Add</i>	1,863.56	
40 05 19 00-3216 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,053.08	396.41
<i>For Class 52 Rating, Deduct</i>	-709.77	
<i>For Class 54 Rating, Add</i>	975.07	
<i>For Class 55 Rating, Add</i>	1,453.31	
<i>For Class 56 Rating, Add</i>	1,925.09	
40 05 19 00-3217 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,265.48	399.29
<i>For Class 52 Rating, Deduct</i>	-732.65	
<i>For Class 54 Rating, Add</i>	1,006.33	
<i>For Class 55 Rating, Add</i>	1,499.81	
<i>For Class 56 Rating, Add</i>	1,986.62	
40 05 19 00-3218 EA 10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,477.88	402.17
<i>For Class 52 Rating, Deduct</i>	-755.54	
<i>For Class 54 Rating, Add</i>	1,037.59	
<i>For Class 55 Rating, Add</i>	1,546.31	
<i>For Class 56 Rating, Add</i>	2,048.16	
40 05 19 00-3219 EA 10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,690.30	405.05
<i>For Class 52 Rating, Deduct</i>	-778.43	
<i>For Class 54 Rating, Add</i>	1,068.85	
<i>For Class 55 Rating, Add</i>	1,592.81	
<i>For Class 56 Rating, Add</i>	2,109.69	
40 05 19 00-3220 EA 10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,902.70	407.91
<i>For Class 52 Rating, Deduct</i>	-801.31	
<i>For Class 54 Rating, Add</i>	1,100.11	
<i>For Class 55 Rating, Add</i>	1,639.31	
<i>For Class 56 Rating, Add</i>	2,171.22	
40 05 19 00-3221 EA 10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	8,115.10	410.78
<i>For Class 52 Rating, Deduct</i>	-824.20	
<i>For Class 54 Rating, Add</i>	1,131.37	
<i>For Class 55 Rating, Add</i>	1,685.81	
<i>For Class 56 Rating, Add</i>	2,232.75	
40 05 19 00-3222 EA 10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	8,327.50	413.66
<i>For Class 52 Rating, Deduct</i>	-847.08	
<i>For Class 54 Rating, Add</i>	1,162.63	
<i>For Class 55 Rating, Add</i>	1,732.31	
<i>For Class 56 Rating, Add</i>	2,294.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3223	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,539.92	416.53
		<i>For Class 52 Rating, Deduct</i>		-869.97	
		<i>For Class 54 Rating, Add</i>		1,193.89	
		<i>For Class 55 Rating, Add</i>		1,778.81	
		<i>For Class 56 Rating, Add</i>		2,355.82	
40 05 19 00-3224	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,752.32	419.40
		<i>For Class 52 Rating, Deduct</i>		-892.85	
		<i>For Class 54 Rating, Add</i>		1,225.15	
		<i>For Class 55 Rating, Add</i>		1,825.31	
		<i>For Class 56 Rating, Add</i>		2,417.35	
40 05 19 00-3225	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,964.72	422.27
		<i>For Class 52 Rating, Deduct</i>		-915.74	
		<i>For Class 54 Rating, Add</i>		1,256.41	
		<i>For Class 55 Rating, Add</i>		1,871.81	
		<i>For Class 56 Rating, Add</i>		2,478.88	
40 05 19 00-3226	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,177.12	425.15
		<i>For Class 52 Rating, Deduct</i>		-938.63	
		<i>For Class 54 Rating, Add</i>		1,287.67	
		<i>For Class 55 Rating, Add</i>		1,918.31	
		<i>For Class 56 Rating, Add</i>		2,540.41	
40 05 19 00-3227	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,389.54	428.02
		<i>For Class 52 Rating, Deduct</i>		-961.51	
		<i>For Class 54 Rating, Add</i>		1,318.94	
		<i>For Class 55 Rating, Add</i>		1,964.81	
		<i>For Class 56 Rating, Add</i>		2,601.95	
40 05 19 00-3228	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,601.94	430.90
		<i>For Class 52 Rating, Deduct</i>		-984.40	
		<i>For Class 54 Rating, Add</i>		1,350.19	
		<i>For Class 55 Rating, Add</i>		2,011.31	
		<i>For Class 56 Rating, Add</i>		2,663.48	
40 05 19 00-3229		12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>			
40 05 19 00-3230	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		1,986.98	402.17
		<i>For Class 52 Rating, Deduct</i>		-151.54	
		<i>For Class 54 Rating, Add</i>		213.96	
		<i>For Class 55 Rating, Add</i>		321.84	
		<i>For Class 56 Rating, Add</i>		428.34	
40 05 19 00-3231	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,250.00	405.05
		<i>For Class 52 Rating, Deduct</i>		-179.99	
		<i>For Class 54 Rating, Add</i>		252.81	
		<i>For Class 55 Rating, Add</i>		379.62	
		<i>For Class 56 Rating, Add</i>		504.80	
40 05 19 00-3232	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,513.01	407.91
		<i>For Class 52 Rating, Deduct</i>		-208.45	
		<i>For Class 54 Rating, Add</i>		291.66	
		<i>For Class 55 Rating, Add</i>		437.41	
		<i>For Class 56 Rating, Add</i>		581.26	
40 05 19 00-3233	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		2,776.02	410.78
		<i>For Class 52 Rating, Deduct</i>		-236.90	
		<i>For Class 54 Rating, Add</i>		330.51	
		<i>For Class 55 Rating, Add</i>		495.19	
		<i>For Class 56 Rating, Add</i>		657.72	
40 05 19 00-3234	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,039.03	413.66
		<i>For Class 52 Rating, Deduct</i>		-265.35	
		<i>For Class 54 Rating, Add</i>		369.36	
		<i>For Class 55 Rating, Add</i>		552.98	
		<i>For Class 56 Rating, Add</i>		734.19	
40 05 19 00-3235	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,302.05	416.53
		<i>For Class 52 Rating, Deduct</i>		-293.80	
		<i>For Class 54 Rating, Add</i>		408.21	
		<i>For Class 55 Rating, Add</i>		610.77	
		<i>For Class 56 Rating, Add</i>		810.65	
40 05 19 00-3236	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,565.06	419.40
		<i>For Class 52 Rating, Deduct</i>		-322.26	
		<i>For Class 54 Rating, Add</i>		447.07	
		<i>For Class 55 Rating, Add</i>		668.55	
		<i>For Class 56 Rating, Add</i>		887.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3237 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,828.07	422.27
<i>For Class 52 Rating, Deduct</i>	-350.71	
<i>For Class 54 Rating, Add</i>	485.92	
<i>For Class 55 Rating, Add</i>	726.34	
<i>For Class 56 Rating, Add</i>	963.57	
40 05 19 00-3238 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,091.08	425.15
<i>For Class 52 Rating, Deduct</i>	-379.16	
<i>For Class 54 Rating, Add</i>	524.77	
<i>For Class 55 Rating, Add</i>	784.12	
<i>For Class 56 Rating, Add</i>	1,040.03	
40 05 19 00-3239 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,354.10	428.02
<i>For Class 52 Rating, Deduct</i>	-407.61	
<i>For Class 54 Rating, Add</i>	563.62	
<i>For Class 55 Rating, Add</i>	841.91	
<i>For Class 56 Rating, Add</i>	1,116.49	
40 05 19 00-3240 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,617.11	430.90
<i>For Class 52 Rating, Deduct</i>	-436.07	
<i>For Class 54 Rating, Add</i>	602.47	
<i>For Class 55 Rating, Add</i>	899.69	
<i>For Class 56 Rating, Add</i>	1,192.95	
40 05 19 00-3241 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,880.12	433.76
<i>For Class 52 Rating, Deduct</i>	-464.52	
<i>For Class 54 Rating, Add</i>	641.32	
<i>For Class 55 Rating, Add</i>	957.48	
<i>For Class 56 Rating, Add</i>	1,269.42	
40 05 19 00-3242 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,143.13	436.63
<i>For Class 52 Rating, Deduct</i>	-492.97	
<i>For Class 54 Rating, Add</i>	680.17	
<i>For Class 55 Rating, Add</i>	1,015.27	
<i>For Class 56 Rating, Add</i>	1,345.88	
40 05 19 00-3243 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,406.15	439.51
<i>For Class 52 Rating, Deduct</i>	-521.42	
<i>For Class 54 Rating, Add</i>	719.02	
<i>For Class 55 Rating, Add</i>	1,073.05	
<i>For Class 56 Rating, Add</i>	1,422.34	
40 05 19 00-3244 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,669.16	442.39
<i>For Class 52 Rating, Deduct</i>	-549.88	
<i>For Class 54 Rating, Add</i>	757.88	
<i>For Class 55 Rating, Add</i>	1,130.84	
<i>For Class 56 Rating, Add</i>	1,498.80	
40 05 19 00-3245 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,932.17	445.26
<i>For Class 52 Rating, Deduct</i>	-578.33	
<i>For Class 54 Rating, Add</i>	796.73	
<i>For Class 55 Rating, Add</i>	1,188.62	
<i>For Class 56 Rating, Add</i>	1,575.26	
40 05 19 00-3246 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,195.18	448.12
<i>For Class 52 Rating, Deduct</i>	-606.78	
<i>For Class 54 Rating, Add</i>	835.58	
<i>For Class 55 Rating, Add</i>	1,246.41	
<i>For Class 56 Rating, Add</i>	1,651.72	
40 05 19 00-3247 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,458.19	451.00
<i>For Class 52 Rating, Deduct</i>	-635.23	
<i>For Class 54 Rating, Add</i>	874.43	
<i>For Class 55 Rating, Add</i>	1,304.19	
<i>For Class 56 Rating, Add</i>	1,728.18	
40 05 19 00-3248 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,721.21	453.88
<i>For Class 52 Rating, Deduct</i>	-663.69	
<i>For Class 54 Rating, Add</i>	913.28	
<i>For Class 55 Rating, Add</i>	1,361.98	
<i>For Class 56 Rating, Add</i>	1,804.65	
40 05 19 00-3249 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,984.22	456.74
<i>For Class 52 Rating, Deduct</i>	-692.14	
<i>For Class 54 Rating, Add</i>	952.13	
<i>For Class 55 Rating, Add</i>	1,419.77	
<i>For Class 56 Rating, Add</i>	1,881.11	
40 05 19 00-3250 EA 12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,247.23	459.61
<i>For Class 52 Rating, Deduct</i>	-720.59	
<i>For Class 54 Rating, Add</i>	990.98	
<i>For Class 55 Rating, Add</i>	1,477.55	
<i>For Class 56 Rating, Add</i>	1,957.57	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3251	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,510.25	462.49
			<i>For Class 52 Rating, Deduct</i>	-749.05	
			<i>For Class 54 Rating, Add</i>	1,029.83	
			<i>For Class 55 Rating, Add</i>	1,535.34	
			<i>For Class 56 Rating, Add</i>	2,034.03	
40 05 19 00-3252	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,773.26	465.37
			<i>For Class 52 Rating, Deduct</i>	-777.50	
			<i>For Class 54 Rating, Add</i>	1,068.69	
			<i>For Class 55 Rating, Add</i>	1,593.12	
			<i>For Class 56 Rating, Add</i>	2,110.49	
40 05 19 00-3253	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,036.27	468.23
			<i>For Class 52 Rating, Deduct</i>	-805.95	
			<i>For Class 54 Rating, Add</i>	1,107.54	
			<i>For Class 55 Rating, Add</i>	1,650.91	
			<i>For Class 56 Rating, Add</i>	2,186.95	
40 05 19 00-3254	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,299.28	471.11
			<i>For Class 52 Rating, Deduct</i>	-834.40	
			<i>For Class 54 Rating, Add</i>	1,146.39	
			<i>For Class 55 Rating, Add</i>	1,708.69	
			<i>For Class 56 Rating, Add</i>	2,263.41	
40 05 19 00-3255	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,562.29	473.98
			<i>For Class 52 Rating, Deduct</i>	-862.86	
			<i>For Class 54 Rating, Add</i>	1,185.24	
			<i>For Class 55 Rating, Add</i>	1,766.48	
			<i>For Class 56 Rating, Add</i>	2,339.87	
40 05 19 00-3256	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,825.31	476.86
			<i>For Class 52 Rating, Deduct</i>	-891.31	
			<i>For Class 54 Rating, Add</i>	1,224.09	
			<i>For Class 55 Rating, Add</i>	1,824.26	
			<i>For Class 56 Rating, Add</i>	2,416.34	
40 05 19 00-3257	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,088.32	479.72
			<i>For Class 52 Rating, Deduct</i>	-919.76	
			<i>For Class 54 Rating, Add</i>	1,262.94	
			<i>For Class 55 Rating, Add</i>	1,882.05	
			<i>For Class 56 Rating, Add</i>	2,492.80	
40 05 19 00-3258	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,351.33	482.60
			<i>For Class 52 Rating, Deduct</i>	-948.21	
			<i>For Class 54 Rating, Add</i>	1,301.79	
			<i>For Class 55 Rating, Add</i>	1,939.84	
			<i>For Class 56 Rating, Add</i>	2,569.26	
40 05 19 00-3259	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,614.35	485.48
			<i>For Class 52 Rating, Deduct</i>	-976.67	
			<i>For Class 54 Rating, Add</i>	1,340.64	
			<i>For Class 55 Rating, Add</i>	1,997.62	
			<i>For Class 56 Rating, Add</i>	2,645.72	
40 05 19 00-3260	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,877.36	488.34
			<i>For Class 52 Rating, Deduct</i>	-1,005.12	
			<i>For Class 54 Rating, Add</i>	1,379.50	
			<i>For Class 55 Rating, Add</i>	2,055.41	
			<i>For Class 56 Rating, Add</i>	2,722.18	
40 05 19 00-3261	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,140.37	491.22
			<i>For Class 52 Rating, Deduct</i>	-1,033.57	
			<i>For Class 54 Rating, Add</i>	1,418.35	
			<i>For Class 55 Rating, Add</i>	2,113.19	
			<i>For Class 56 Rating, Add</i>	2,798.64	
40 05 19 00-3262	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,403.38	494.09
			<i>For Class 52 Rating, Deduct</i>	-1,062.02	
			<i>For Class 54 Rating, Add</i>	1,457.20	
			<i>For Class 55 Rating, Add</i>	2,170.98	
			<i>For Class 56 Rating, Add</i>	2,875.10	
40 05 19 00-3263	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,666.39	496.97
			<i>For Class 52 Rating, Deduct</i>	-1,090.48	
			<i>For Class 54 Rating, Add</i>	1,496.05	
			<i>For Class 55 Rating, Add</i>	2,228.76	
			<i>For Class 56 Rating, Add</i>	2,951.57	
40 05 19 00-3264	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,929.40	499.83
			<i>For Class 52 Rating, Deduct</i>	-1,118.93	
			<i>For Class 54 Rating, Add</i>	1,534.90	
			<i>For Class 55 Rating, Add</i>	2,286.55	
			<i>For Class 56 Rating, Add</i>	3,028.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3265 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,192.42	502.71
<i>For Class 52 Rating, Deduct</i>	-1,147.38	
<i>For Class 54 Rating, Add</i>	1,573.75	
<i>For Class 55 Rating, Add</i>	2,344.34	
<i>For Class 56 Rating, Add</i>	3,104.49	
40 05 19 00-3266 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,455.43	505.58
<i>For Class 52 Rating, Deduct</i>	-1,175.83	
<i>For Class 54 Rating, Add</i>	1,612.60	
<i>For Class 55 Rating, Add</i>	2,402.12	
<i>For Class 56 Rating, Add</i>	3,180.95	
40 05 19 00-3267 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,718.45	508.45
<i>For Class 52 Rating, Deduct</i>	-1,204.29	
<i>For Class 54 Rating, Add</i>	1,651.45	
<i>For Class 55 Rating, Add</i>	2,459.91	
<i>For Class 56 Rating, Add</i>	3,257.41	
40 05 19 00-3268 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,981.46	511.33
<i>For Class 52 Rating, Deduct</i>	-1,232.74	
<i>For Class 54 Rating, Add</i>	1,690.30	
<i>For Class 55 Rating, Add</i>	2,517.69	
<i>For Class 56 Rating, Add</i>	3,333.87	
40 05 19 00-3269 14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3270 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,673.97	482.60
<i>For Class 52 Rating, Deduct</i>	-213.70	
<i>For Class 54 Rating, Add</i>	300.19	
<i>For Class 55 Rating, Add</i>	450.78	
<i>For Class 56 Rating, Add</i>	599.44	
40 05 19 00-3271 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,993.22	485.48
<i>For Class 52 Rating, Deduct</i>	-248.34	
<i>For Class 54 Rating, Add</i>	347.47	
<i>For Class 55 Rating, Add</i>	521.11	
<i>For Class 56 Rating, Add</i>	692.49	
40 05 19 00-3272 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,312.46	488.34
<i>For Class 52 Rating, Deduct</i>	-282.98	
<i>For Class 54 Rating, Add</i>	394.76	
<i>For Class 55 Rating, Add</i>	591.43	
<i>For Class 56 Rating, Add</i>	765.54	
40 05 19 00-3273 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,631.70	491.22
<i>For Class 52 Rating, Deduct</i>	-317.62	
<i>For Class 54 Rating, Add</i>	442.05	
<i>For Class 55 Rating, Add</i>	661.76	
<i>For Class 56 Rating, Add</i>	878.59	
40 05 19 00-3274 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,950.94	494.09
<i>For Class 52 Rating, Deduct</i>	-352.26	
<i>For Class 54 Rating, Add</i>	489.33	
<i>For Class 55 Rating, Add</i>	732.08	
<i>For Class 56 Rating, Add</i>	971.63	
40 05 19 00-3275 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,270.18	496.97
<i>For Class 52 Rating, Deduct</i>	-386.89	
<i>For Class 54 Rating, Add</i>	536.62	
<i>For Class 55 Rating, Add</i>	802.41	
<i>For Class 56 Rating, Add</i>	1,064.68	
40 05 19 00-3276 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,589.42	499.83
<i>For Class 52 Rating, Deduct</i>	-421.53	
<i>For Class 54 Rating, Add</i>	583.90	
<i>For Class 55 Rating, Add</i>	872.73	
<i>For Class 56 Rating, Add</i>	1,157.73	
40 05 19 00-3277 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,908.67	502.71
<i>For Class 52 Rating, Deduct</i>	-456.17	
<i>For Class 54 Rating, Add</i>	631.19	
<i>For Class 55 Rating, Add</i>	943.06	
<i>For Class 56 Rating, Add</i>	1,250.78	
40 05 19 00-3278 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,227.91	505.58
<i>For Class 52 Rating, Deduct</i>	-490.81	
<i>For Class 54 Rating, Add</i>	678.47	
<i>For Class 55 Rating, Add</i>	1,013.38	
<i>For Class 56 Rating, Add</i>	1,343.83	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3279	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,547.16		508.45
		<i>For Class 52 Rating, Deduct</i>	-525.44		
		<i>For Class 54 Rating, Add</i>	725.76		
		<i>For Class 55 Rating, Add</i>	1,083.71		
		<i>For Class 56 Rating, Add</i>	1,436.88		
40 05 19 00-3280	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,866.40		511.33
		<i>For Class 52 Rating, Deduct</i>	-560.08		
		<i>For Class 54 Rating, Add</i>	773.05		
		<i>For Class 55 Rating, Add</i>	1,154.03		
		<i>For Class 56 Rating, Add</i>	1,529.93		
40 05 19 00-3281	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,185.64		514.20
		<i>For Class 52 Rating, Deduct</i>	-594.72		
		<i>For Class 54 Rating, Add</i>	820.33		
		<i>For Class 55 Rating, Add</i>	1,224.36		
		<i>For Class 56 Rating, Add</i>	1,622.98		
40 05 19 00-3282	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,504.88		517.07
		<i>For Class 52 Rating, Deduct</i>	-629.36		
		<i>For Class 54 Rating, Add</i>	867.62		
		<i>For Class 55 Rating, Add</i>	1,294.68		
		<i>For Class 56 Rating, Add</i>	1,716.03		
40 05 19 00-3283	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,824.12		519.94
		<i>For Class 52 Rating, Deduct</i>	-664.00		
		<i>For Class 54 Rating, Add</i>	914.90		
		<i>For Class 55 Rating, Add</i>	1,365.01		
		<i>For Class 56 Rating, Add</i>	1,809.08		
40 05 19 00-3284	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,143.36		522.82
		<i>For Class 52 Rating, Deduct</i>	-698.63		
		<i>For Class 54 Rating, Add</i>	962.19		
		<i>For Class 55 Rating, Add</i>	1,435.33		
		<i>For Class 56 Rating, Add</i>	1,902.13		
40 05 19 00-3285	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,462.60		525.70
		<i>For Class 52 Rating, Deduct</i>	-733.27		
		<i>For Class 54 Rating, Add</i>	1,009.47		
		<i>For Class 55 Rating, Add</i>	1,505.66		
		<i>For Class 56 Rating, Add</i>	1,995.18		
40 05 19 00-3286	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,781.85		528.55
		<i>For Class 52 Rating, Deduct</i>	-767.91		
		<i>For Class 54 Rating, Add</i>	1,056.76		
		<i>For Class 55 Rating, Add</i>	1,575.98		
		<i>For Class 56 Rating, Add</i>	2,088.23		
40 05 19 00-3287	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,101.10		531.43
		<i>For Class 52 Rating, Deduct</i>	-802.55		
		<i>For Class 54 Rating, Add</i>	1,104.05		
		<i>For Class 55 Rating, Add</i>	1,646.31		
		<i>For Class 56 Rating, Add</i>	2,181.28		
40 05 19 00-3288	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,420.34		534.31
		<i>For Class 52 Rating, Deduct</i>	-837.19		
		<i>For Class 54 Rating, Add</i>	1,151.33		
		<i>For Class 55 Rating, Add</i>	1,716.63		
		<i>For Class 56 Rating, Add</i>	2,274.32		
40 05 19 00-3289	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,739.58		537.19
		<i>For Class 52 Rating, Deduct</i>	-871.82		
		<i>For Class 54 Rating, Add</i>	1,198.62		
		<i>For Class 55 Rating, Add</i>	1,786.96		
		<i>For Class 56 Rating, Add</i>	2,367.37		
40 05 19 00-3290	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,058.83		540.04
		<i>For Class 52 Rating, Deduct</i>	-906.46		
		<i>For Class 54 Rating, Add</i>	1,245.90		
		<i>For Class 55 Rating, Add</i>	1,857.29		
		<i>For Class 56 Rating, Add</i>	2,460.43		
40 05 19 00-3291	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,378.07		542.92
		<i>For Class 52 Rating, Deduct</i>	-941.10		
		<i>For Class 54 Rating, Add</i>	1,293.19		
		<i>For Class 55 Rating, Add</i>	1,927.61		
		<i>For Class 56 Rating, Add</i>	2,553.47		
40 05 19 00-3292	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,697.31		545.80
		<i>For Class 52 Rating, Deduct</i>	-975.74		
		<i>For Class 54 Rating, Add</i>	1,340.48		
		<i>For Class 55 Rating, Add</i>	1,997.94		
		<i>For Class 56 Rating, Add</i>	2,646.52		



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3293	EA			14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	10,016.55	548.68
				For Class 52 Rating, Deduct	-1,010.38	
				For Class 54 Rating, Add	1,387.76	
				For Class 55 Rating, Add	2,068.26	
				For Class 56 Rating, Add	2,739.57	
40 05 19 00-3294	EA			14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	10,335.81	551.54
				For Class 52 Rating, Deduct	-1,045.01	
				For Class 54 Rating, Add	1,435.05	
				For Class 55 Rating, Add	2,138.59	
				For Class 56 Rating, Add	2,832.62	
40 05 19 00-3295	EA			14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	10,655.05	554.41
				For Class 52 Rating, Deduct	-1,079.65	
				For Class 54 Rating, Add	1,482.33	
				For Class 55 Rating, Add	2,208.91	
				For Class 56 Rating, Add	2,925.67	
40 05 19 00-3296	EA			14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	10,974.29	557.29
				For Class 52 Rating, Deduct	-1,114.29	
				For Class 54 Rating, Add	1,529.62	
				For Class 55 Rating, Add	2,279.24	
				For Class 56 Rating, Add	3,018.72	
40 05 19 00-3297	EA			14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	11,293.53	560.16
				For Class 52 Rating, Deduct	-1,148.93	
				For Class 54 Rating, Add	1,576.90	
				For Class 55 Rating, Add	2,349.56	
				For Class 56 Rating, Add	3,111.77	
40 05 19 00-3298	EA			14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	11,612.77	563.03
				For Class 52 Rating, Deduct	-1,183.57	
				For Class 54 Rating, Add	1,624.19	
				For Class 55 Rating, Add	2,419.88	
				For Class 56 Rating, Add	3,204.82	
40 05 19 00-3299	EA			14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	11,932.01	565.91
				For Class 52 Rating, Deduct	-1,218.20	
				For Class 54 Rating, Add	1,671.48	
				For Class 55 Rating, Add	2,490.21	
				For Class 56 Rating, Add	3,297.87	
40 05 19 00-3300	EA			14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	12,251.25	568.78
				For Class 52 Rating, Deduct	-1,252.84	
				For Class 54 Rating, Add	1,718.76	
				For Class 55 Rating, Add	2,560.53	
				For Class 56 Rating, Add	3,390.92	
40 05 19 00-3301	EA			14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	12,570.49	571.65
				For Class 52 Rating, Deduct	-1,287.48	
				For Class 54 Rating, Add	1,766.05	
				For Class 55 Rating, Add	2,630.86	
				For Class 56 Rating, Add	3,483.97	
40 05 19 00-3302	EA			14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	12,889.74	574.53
				For Class 52 Rating, Deduct	-1,322.12	
				For Class 54 Rating, Add	1,813.33	
				For Class 55 Rating, Add	2,701.18	
				For Class 56 Rating, Add	3,577.02	
40 05 19 00-3303	EA			14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	13,208.99	577.40
				For Class 52 Rating, Deduct	-1,356.76	
				For Class 54 Rating, Add	1,860.62	
				For Class 55 Rating, Add	2,771.51	
				For Class 56 Rating, Add	3,670.07	
40 05 19 00-3304	EA			14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	13,528.23	580.26
				For Class 52 Rating, Deduct	-1,391.39	
				For Class 54 Rating, Add	1,907.90	
				For Class 55 Rating, Add	2,841.83	
				For Class 56 Rating, Add	3,763.12	
40 05 19 00-3305	EA			14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	13,847.47	583.14
				For Class 52 Rating, Deduct	-1,426.03	
				For Class 54 Rating, Add	1,955.19	
				For Class 55 Rating, Add	2,912.16	
				For Class 56 Rating, Add	3,856.16	
40 05 19 00-3306	EA			14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	14,166.71	586.02
				For Class 52 Rating, Deduct	-1,460.67	
				For Class 54 Rating, Add	2,002.48	
				For Class 55 Rating, Add	2,982.48	
				For Class 56 Rating, Add	3,949.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3307	EA		14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,485.95	588.89
			<i>For Class 52 Rating, Deduct</i>	-1,495.31	
			<i>For Class 54 Rating, Add</i>	2,049.76	
			<i>For Class 55 Rating, Add</i>	3,052.81	
			<i>For Class 56 Rating, Add</i>	4,042.26	
40 05 19 00-3308			16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3309	EA		16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,127.07	551.54
			<i>For Class 52 Rating, Deduct</i>	-252.05	
			<i>For Class 54 Rating, Add</i>	353.74	
			<i>For Class 55 Rating, Add</i>	531.04	
			<i>For Class 56 Rating, Add</i>	706.04	
40 05 19 00-3310	EA		16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,496.92	554.41
			<i>For Class 52 Rating, Deduct</i>	-292.26	
			<i>For Class 54 Rating, Add</i>	408.61	
			<i>For Class 55 Rating, Add</i>	612.65	
			<i>For Class 56 Rating, Add</i>	814.02	
40 05 19 00-3311	EA		16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,866.76	557.29
			<i>For Class 52 Rating, Deduct</i>	-332.46	
			<i>For Class 54 Rating, Add</i>	463.49	
			<i>For Class 55 Rating, Add</i>	694.26	
			<i>For Class 56 Rating, Add</i>	922.00	
40 05 19 00-3312	EA		16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,236.61	560.16
			<i>For Class 52 Rating, Deduct</i>	-372.67	
			<i>For Class 54 Rating, Add</i>	518.37	
			<i>For Class 55 Rating, Add</i>	775.87	
			<i>For Class 56 Rating, Add</i>	1,029.98	
40 05 19 00-3313	EA		16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,606.46	563.03
			<i>For Class 52 Rating, Deduct</i>	-412.87	
			<i>For Class 54 Rating, Add</i>	573.24	
			<i>For Class 55 Rating, Add</i>	857.48	
			<i>For Class 56 Rating, Add</i>	1,137.96	
40 05 19 00-3314	EA		16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,976.31	565.91
			<i>For Class 52 Rating, Deduct</i>	-453.08	
			<i>For Class 54 Rating, Add</i>	628.12	
			<i>For Class 55 Rating, Add</i>	939.09	
			<i>For Class 56 Rating, Add</i>	1,245.94	
40 05 19 00-3315	EA		16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,346.15	568.78
			<i>For Class 52 Rating, Deduct</i>	-493.28	
			<i>For Class 54 Rating, Add</i>	683.00	
			<i>For Class 55 Rating, Add</i>	1,020.70	
			<i>For Class 56 Rating, Add</i>	1,353.91	
40 05 19 00-3316	EA		16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,716.00	571.65
			<i>For Class 52 Rating, Deduct</i>	-533.49	
			<i>For Class 54 Rating, Add</i>	737.87	
			<i>For Class 55 Rating, Add</i>	1,102.31	
			<i>For Class 56 Rating, Add</i>	1,461.89	
40 05 19 00-3317	EA		16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,085.86	574.53
			<i>For Class 52 Rating, Deduct</i>	-573.69	
			<i>For Class 54 Rating, Add</i>	792.75	
			<i>For Class 55 Rating, Add</i>	1,183.92	
			<i>For Class 56 Rating, Add</i>	1,569.87	
40 05 19 00-3318	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,455.72	577.40
			<i>For Class 52 Rating, Deduct</i>	-613.90	
			<i>For Class 54 Rating, Add</i>	847.63	
			<i>For Class 55 Rating, Add</i>	1,265.53	
			<i>For Class 56 Rating, Add</i>	1,677.85	
40 05 19 00-3319	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,825.56	580.26
			<i>For Class 52 Rating, Deduct</i>	-654.10	
			<i>For Class 54 Rating, Add</i>	902.50	
			<i>For Class 55 Rating, Add</i>	1,347.14	
			<i>For Class 56 Rating, Add</i>	1,785.83	
40 05 19 00-3320	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,195.41	583.14
			<i>For Class 52 Rating, Deduct</i>	-694.30	
			<i>For Class 54 Rating, Add</i>	957.38	
			<i>For Class 55 Rating, Add</i>	1,428.75	
			<i>For Class 56 Rating, Add</i>	1,893.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3321 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,565.26	586.02
<i>For Class 52 Rating, Deduct</i>	-734.51	
<i>For Class 54 Rating, Add</i>	1,012.26	
<i>For Class 55 Rating, Add</i>	1,510.36	
<i>For Class 56 Rating, Add</i>	2,001.79	
40 05 19 00-3322 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,935.11	588.89
<i>For Class 52 Rating, Deduct</i>	-774.71	
<i>For Class 54 Rating, Add</i>	1,067.14	
<i>For Class 55 Rating, Add</i>	1,591.97	
<i>For Class 56 Rating, Add</i>	2,109.76	
40 05 19 00-3323 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,304.96	591.76
<i>For Class 52 Rating, Deduct</i>	-814.92	
<i>For Class 54 Rating, Add</i>	1,122.01	
<i>For Class 55 Rating, Add</i>	1,673.58	
<i>For Class 56 Rating, Add</i>	2,217.74	
40 05 19 00-3324 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,674.80	594.63
<i>For Class 52 Rating, Deduct</i>	-855.12	
<i>For Class 54 Rating, Add</i>	1,176.89	
<i>For Class 55 Rating, Add</i>	1,755.19	
<i>For Class 56 Rating, Add</i>	2,325.72	
40 05 19 00-3325 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,044.66	597.51
<i>For Class 52 Rating, Deduct</i>	-895.33	
<i>For Class 54 Rating, Add</i>	1,231.77	
<i>For Class 55 Rating, Add</i>	1,836.80	
<i>For Class 56 Rating, Add</i>	2,433.70	
40 05 19 00-3326 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,414.52	600.37
<i>For Class 52 Rating, Deduct</i>	-935.53	
<i>For Class 54 Rating, Add</i>	1,286.64	
<i>For Class 55 Rating, Add</i>	1,918.41	
<i>For Class 56 Rating, Add</i>	2,541.68	
40 05 19 00-3327 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,784.37	603.25
<i>For Class 52 Rating, Deduct</i>	-975.74	
<i>For Class 54 Rating, Add</i>	1,341.52	
<i>For Class 55 Rating, Add</i>	2,000.02	
<i>For Class 56 Rating, Add</i>	2,649.66	
40 05 19 00-3328 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,154.21	606.12
<i>For Class 52 Rating, Deduct</i>	-1,015.94	
<i>For Class 54 Rating, Add</i>	1,396.40	
<i>For Class 55 Rating, Add</i>	2,081.63	
<i>For Class 56 Rating, Add</i>	2,757.63	
40 05 19 00-3329 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,524.06	609.00
<i>For Class 52 Rating, Deduct</i>	-1,056.15	
<i>For Class 54 Rating, Add</i>	1,451.27	
<i>For Class 55 Rating, Add</i>	2,163.24	
<i>For Class 56 Rating, Add</i>	2,865.61	
40 05 19 00-3330 EA 16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,893.91	611.86
<i>For Class 52 Rating, Deduct</i>	-1,096.35	
<i>For Class 54 Rating, Add</i>	1,506.15	
<i>For Class 55 Rating, Add</i>	2,244.86	
<i>For Class 56 Rating, Add</i>	2,973.59	
40 05 19 00-3331 EA 16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,263.76	614.74
<i>For Class 52 Rating, Deduct</i>	-1,136.56	
<i>For Class 54 Rating, Add</i>	1,561.03	
<i>For Class 55 Rating, Add</i>	2,326.47	
<i>For Class 56 Rating, Add</i>	3,081.57	
40 05 19 00-3332 EA 16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,633.60	617.62
<i>For Class 52 Rating, Deduct</i>	-1,176.76	
<i>For Class 54 Rating, Add</i>	1,615.90	
<i>For Class 55 Rating, Add</i>	2,408.07	
<i>For Class 56 Rating, Add</i>	3,189.55	
40 05 19 00-3333 EA 16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,003.46	620.49
<i>For Class 52 Rating, Deduct</i>	-1,216.97	
<i>For Class 54 Rating, Add</i>	1,670.78	
<i>For Class 55 Rating, Add</i>	2,489.69	
<i>For Class 56 Rating, Add</i>	3,297.53	
40 05 19 00-3334 EA 16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,373.31	623.35
<i>For Class 52 Rating, Deduct</i>	-1,257.17	
<i>For Class 54 Rating, Add</i>	1,725.66	
<i>For Class 55 Rating, Add</i>	2,571.30	
<i>For Class 56 Rating, Add</i>	3,405.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-3335	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,743.17	626.23
		<i>For Class 52 Rating, Deduct</i>	-1,297.38	
		<i>For Class 54 Rating, Add</i>	1,780.54	
		<i>For Class 55 Rating, Add</i>	2,652.91	
		<i>For Class 56 Rating, Add</i>	3,513.49	
40 05 19 00-3336	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,113.01	629.11
		<i>For Class 52 Rating, Deduct</i>	-1,337.58	
		<i>For Class 54 Rating, Add</i>	1,835.41	
		<i>For Class 55 Rating, Add</i>	2,734.52	
		<i>For Class 56 Rating, Add</i>	3,621.46	
40 05 19 00-3337	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,482.86	631.97
		<i>For Class 52 Rating, Deduct</i>	-1,377.79	
		<i>For Class 54 Rating, Add</i>	1,890.29	
		<i>For Class 55 Rating, Add</i>	2,816.13	
		<i>For Class 56 Rating, Add</i>	3,729.44	
40 05 19 00-3338	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,852.71	634.84
		<i>For Class 52 Rating, Deduct</i>	-1,417.99	
		<i>For Class 54 Rating, Add</i>	1,945.17	
		<i>For Class 55 Rating, Add</i>	2,897.74	
		<i>For Class 56 Rating, Add</i>	3,837.42	
40 05 19 00-3339	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,222.56	637.72
		<i>For Class 52 Rating, Deduct</i>	-1,458.20	
		<i>For Class 54 Rating, Add</i>	2,000.04	
		<i>For Class 55 Rating, Add</i>	2,979.35	
		<i>For Class 56 Rating, Add</i>	3,945.40	
40 05 19 00-3340	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,592.40	640.60
		<i>For Class 52 Rating, Deduct</i>	-1,498.40	
		<i>For Class 54 Rating, Add</i>	2,054.92	
		<i>For Class 55 Rating, Add</i>	3,060.96	
		<i>For Class 56 Rating, Add</i>	4,053.38	
40 05 19 00-3341	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,962.26	643.47
		<i>For Class 52 Rating, Deduct</i>	-1,538.60	
		<i>For Class 54 Rating, Add</i>	2,109.80	
		<i>For Class 55 Rating, Add</i>	3,142.57	
		<i>For Class 56 Rating, Add</i>	4,161.35	
40 05 19 00-3342	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,332.11	646.33
		<i>For Class 52 Rating, Deduct</i>	-1,578.81	
		<i>For Class 54 Rating, Add</i>	2,164.67	
		<i>For Class 55 Rating, Add</i>	3,224.18	
		<i>For Class 56 Rating, Add</i>	4,269.33	
40 05 19 00-3343	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,701.97	649.21
		<i>For Class 52 Rating, Deduct</i>	-1,619.01	
		<i>For Class 54 Rating, Add</i>	2,219.55	
		<i>For Class 55 Rating, Add</i>	3,305.79	
		<i>For Class 56 Rating, Add</i>	4,377.31	
40 05 19 00-3344	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,071.81	652.08
		<i>For Class 52 Rating, Deduct</i>	-1,659.22	
		<i>For Class 54 Rating, Add</i>	2,274.43	
		<i>For Class 55 Rating, Add</i>	3,387.40	
		<i>For Class 56 Rating, Add</i>	4,485.29	
40 05 19 00-3345	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,441.66	654.96
		<i>For Class 52 Rating, Deduct</i>	-1,699.42	
		<i>For Class 54 Rating, Add</i>	2,329.30	
		<i>For Class 55 Rating, Add</i>	3,469.01	
		<i>For Class 56 Rating, Add</i>	4,593.27	
40 05 19 00-3346	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,811.51	657.83
		<i>For Class 52 Rating, Deduct</i>	-1,739.63	
		<i>For Class 54 Rating, Add</i>	2,384.18	
		<i>For Class 55 Rating, Add</i>	3,550.62	
		<i>For Class 56 Rating, Add</i>	4,701.25	
40 05 19 00-3347		18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3348	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,626.88	621.63
		<i>For Class 52 Rating, Deduct</i>	-295.35	
		<i>For Class 54 Rating, Add</i>	414.05	
		<i>For Class 55 Rating, Add</i>	621.36	
		<i>For Class 56 Rating, Add</i>	825.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3349 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,052.96	624.51
<i>For Class 52 Rating, Deduct</i>	-341.74	
<i>For Class 54 Rating, Add</i>	477.36	
<i>For Class 55 Rating, Add</i>	715.51	
<i>For Class 56 Rating, Add</i>	950.55	
40 05 19 00-3350 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,479.04	627.38
<i>For Class 52 Rating, Deduct</i>	-388.13	
<i>For Class 54 Rating, Add</i>	540.68	
<i>For Class 55 Rating, Add</i>	809.66	
<i>For Class 56 Rating, Add</i>	1,075.12	
40 05 19 00-3351 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,905.12	630.26
<i>For Class 52 Rating, Deduct</i>	-434.52	
<i>For Class 54 Rating, Add</i>	603.99	
<i>For Class 55 Rating, Add</i>	903.81	
<i>For Class 56 Rating, Add</i>	1,199.68	
40 05 19 00-3352 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,331.19	633.12
<i>For Class 52 Rating, Deduct</i>	-480.91	
<i>For Class 54 Rating, Add</i>	667.30	
<i>For Class 55 Rating, Add</i>	997.96	
<i>For Class 56 Rating, Add</i>	1,324.25	
40 05 19 00-3353 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,757.27	635.99
<i>For Class 52 Rating, Deduct</i>	-527.30	
<i>For Class 54 Rating, Add</i>	730.61	
<i>For Class 55 Rating, Add</i>	1,092.11	
<i>For Class 56 Rating, Add</i>	1,448.81	
40 05 19 00-3354 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,183.35	638.87
<i>For Class 52 Rating, Deduct</i>	-573.69	
<i>For Class 54 Rating, Add</i>	793.92	
<i>For Class 55 Rating, Add</i>	1,186.26	
<i>For Class 56 Rating, Add</i>	1,573.38	
40 05 19 00-3355 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,609.44	641.75
<i>For Class 52 Rating, Deduct</i>	-620.08	
<i>For Class 54 Rating, Add</i>	857.23	
<i>For Class 55 Rating, Add</i>	1,280.41	
<i>For Class 56 Rating, Add</i>	1,697.95	
40 05 19 00-3356 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,035.53	644.62
<i>For Class 52 Rating, Deduct</i>	-666.47	
<i>For Class 54 Rating, Add</i>	920.54	
<i>For Class 55 Rating, Add</i>	1,374.56	
<i>For Class 56 Rating, Add</i>	1,822.52	
40 05 19 00-3357 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,461.60	647.48
<i>For Class 52 Rating, Deduct</i>	-712.86	
<i>For Class 54 Rating, Add</i>	983.86	
<i>For Class 55 Rating, Add</i>	1,468.71	
<i>For Class 56 Rating, Add</i>	1,947.08	
40 05 19 00-3358 EA 18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,887.68	650.36
<i>For Class 52 Rating, Deduct</i>	-759.25	
<i>For Class 54 Rating, Add</i>	1,047.17	
<i>For Class 55 Rating, Add</i>	1,562.86	
<i>For Class 56 Rating, Add</i>	2,071.65	
40 05 19 00-3359 EA 18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,313.76	653.24
<i>For Class 52 Rating, Deduct</i>	-805.64	
<i>For Class 54 Rating, Add</i>	1,110.48	
<i>For Class 55 Rating, Add</i>	1,657.01	
<i>For Class 56 Rating, Add</i>	2,196.21	
40 05 19 00-3360 EA 18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,739.84	656.10
<i>For Class 52 Rating, Deduct</i>	-852.03	
<i>For Class 54 Rating, Add</i>	1,173.79	
<i>For Class 55 Rating, Add</i>	1,751.16	
<i>For Class 56 Rating, Add</i>	2,320.78	
40 05 19 00-3361 EA 18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,165.92	658.97
<i>For Class 52 Rating, Deduct</i>	-898.42	
<i>For Class 54 Rating, Add</i>	1,237.10	
<i>For Class 55 Rating, Add</i>	1,845.31	
<i>For Class 56 Rating, Add</i>	2,445.35	
40 05 19 00-3362 EA 18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,591.99	661.85
<i>For Class 52 Rating, Deduct</i>	-944.81	
<i>For Class 54 Rating, Add</i>	1,300.41	
<i>For Class 55 Rating, Add</i>	1,939.46	
<i>For Class 56 Rating, Add</i>	2,569.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3363	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,018.08	664.73
			<i>For Class 52 Rating, Deduct</i>	-991.20	
			<i>For Class 54 Rating, Add</i>	1,363.72	
			<i>For Class 55 Rating, Add</i>	2,033.61	
			<i>For Class 56 Rating, Add</i>	2,694.48	
40 05 19 00-3364	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,444.17	667.59
			<i>For Class 52 Rating, Deduct</i>	-1,037.59	
			<i>For Class 54 Rating, Add</i>	1,427.04	
			<i>For Class 55 Rating, Add</i>	2,127.76	
			<i>For Class 56 Rating, Add</i>	2,819.05	
40 05 19 00-3365	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,870.25	670.47
			<i>For Class 52 Rating, Deduct</i>	-1,083.98	
			<i>For Class 54 Rating, Add</i>	1,490.35	
			<i>For Class 55 Rating, Add</i>	2,221.91	
			<i>For Class 56 Rating, Add</i>	2,943.61	
40 05 19 00-3366	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,296.33	673.34
			<i>For Class 52 Rating, Deduct</i>	-1,130.37	
			<i>For Class 54 Rating, Add</i>	1,553.66	
			<i>For Class 55 Rating, Add</i>	2,316.06	
			<i>For Class 56 Rating, Add</i>	3,068.18	
40 05 19 00-3367	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,722.40	676.21
			<i>For Class 52 Rating, Deduct</i>	-1,176.76	
			<i>For Class 54 Rating, Add</i>	1,616.97	
			<i>For Class 55 Rating, Add</i>	2,410.21	
			<i>For Class 56 Rating, Add</i>	3,192.74	
40 05 19 00-3368	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,148.48	679.08
			<i>For Class 52 Rating, Deduct</i>	-1,223.15	
			<i>For Class 54 Rating, Add</i>	1,680.28	
			<i>For Class 55 Rating, Add</i>	2,504.36	
			<i>For Class 56 Rating, Add</i>	3,317.31	
40 05 19 00-3369	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,574.56	681.96
			<i>For Class 52 Rating, Deduct</i>	-1,269.54	
			<i>For Class 54 Rating, Add</i>	1,743.59	
			<i>For Class 55 Rating, Add</i>	2,598.51	
			<i>For Class 56 Rating, Add</i>	3,441.88	
40 05 19 00-3370	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,000.64	684.84
			<i>For Class 52 Rating, Deduct</i>	-1,315.93	
			<i>For Class 54 Rating, Add</i>	1,806.90	
			<i>For Class 55 Rating, Add</i>	2,692.66	
			<i>For Class 56 Rating, Add</i>	3,566.45	
40 05 19 00-3371	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,426.73	687.70
			<i>For Class 52 Rating, Deduct</i>	-1,362.32	
			<i>For Class 54 Rating, Add</i>	1,870.22	
			<i>For Class 55 Rating, Add</i>	2,786.81	
			<i>For Class 56 Rating, Add</i>	3,691.01	
40 05 19 00-3372	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,852.80	690.57
			<i>For Class 52 Rating, Deduct</i>	-1,408.71	
			<i>For Class 54 Rating, Add</i>	1,933.53	
			<i>For Class 55 Rating, Add</i>	2,880.95	
			<i>For Class 56 Rating, Add</i>	3,815.58	
40 05 19 00-3373	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,278.89	693.45
			<i>For Class 52 Rating, Deduct</i>	-1,455.10	
			<i>For Class 54 Rating, Add</i>	1,996.84	
			<i>For Class 55 Rating, Add</i>	2,975.11	
			<i>For Class 56 Rating, Add</i>	3,940.14	
40 05 19 00-3374	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,704.97	696.33
			<i>For Class 52 Rating, Deduct</i>	-1,501.49	
			<i>For Class 54 Rating, Add</i>	2,060.15	
			<i>For Class 55 Rating, Add</i>	3,069.26	
			<i>For Class 56 Rating, Add</i>	4,064.71	
40 05 19 00-3375	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,131.05	699.19
			<i>For Class 52 Rating, Deduct</i>	-1,547.88	
			<i>For Class 54 Rating, Add</i>	2,123.46	
			<i>For Class 55 Rating, Add</i>	3,163.41	
			<i>For Class 56 Rating, Add</i>	4,189.28	
40 05 19 00-3376	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,557.13	702.07
			<i>For Class 52 Rating, Deduct</i>	-1,594.27	
			<i>For Class 54 Rating, Add</i>	2,186.77	
			<i>For Class 55 Rating, Add</i>	3,257.56	
			<i>For Class 56 Rating, Add</i>	4,313.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3377 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,983.20	704.94
<i>For Class 52 Rating, Deduct</i>	-1,640.66	
<i>For Class 54 Rating, Add</i>	2,250.08	
<i>For Class 55 Rating, Add</i>	3,351.70	
<i>For Class 56 Rating, Add</i>	4,438.41	
40 05 19 00-3378 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,409.28	707.81
<i>For Class 52 Rating, Deduct</i>	-1,687.05	
<i>For Class 54 Rating, Add</i>	2,313.40	
<i>For Class 55 Rating, Add</i>	3,445.85	
<i>For Class 56 Rating, Add</i>	4,562.98	
40 05 19 00-3379 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,835.37	710.69
<i>For Class 52 Rating, Deduct</i>	-1,733.44	
<i>For Class 54 Rating, Add</i>	2,376.71	
<i>For Class 55 Rating, Add</i>	3,540.00	
<i>For Class 56 Rating, Add</i>	4,687.54	
40 05 19 00-3380 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,261.45	713.56
<i>For Class 52 Rating, Deduct</i>	-1,779.83	
<i>For Class 54 Rating, Add</i>	2,440.02	
<i>For Class 55 Rating, Add</i>	3,634.15	
<i>For Class 56 Rating, Add</i>	4,812.11	
40 05 19 00-3381 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,687.54	716.43
<i>For Class 52 Rating, Deduct</i>	-1,826.22	
<i>For Class 54 Rating, Add</i>	2,503.33	
<i>For Class 55 Rating, Add</i>	3,728.30	
<i>For Class 56 Rating, Add</i>	4,936.68	
40 05 19 00-3382 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,113.61	719.30
<i>For Class 52 Rating, Deduct</i>	-1,872.61	
<i>For Class 54 Rating, Add</i>	2,566.64	
<i>For Class 55 Rating, Add</i>	3,822.45	
<i>For Class 56 Rating, Add</i>	5,061.24	
40 05 19 00-3383 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,539.69	722.18
<i>For Class 52 Rating, Deduct</i>	-1,919.00	
<i>For Class 54 Rating, Add</i>	2,629.95	
<i>For Class 55 Rating, Add</i>	3,916.60	
<i>For Class 56 Rating, Add</i>	5,185.81	
40 05 19 00-3384 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,965.77	725.06
<i>For Class 52 Rating, Deduct</i>	-1,965.39	
<i>For Class 54 Rating, Add</i>	2,693.26	
<i>For Class 55 Rating, Add</i>	4,010.75	
<i>For Class 56 Rating, Add</i>	5,310.38	
40 05 19 00-3385 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,391.85	727.91
<i>For Class 52 Rating, Deduct</i>	-2,011.78	
<i>For Class 54 Rating, Add</i>	2,756.58	
<i>For Class 55 Rating, Add</i>	4,104.90	
<i>For Class 56 Rating, Add</i>	5,434.94	
40 05 19 00-3386 20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3387 EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,223.96	709.54
<i>For Class 52 Rating, Deduct</i>	-346.38	
<i>For Class 54 Rating, Add</i>	485.24	
<i>For Class 55 Rating, Add</i>	728.01	
<i>For Class 56 Rating, Add</i>	967.63	
40 05 19 00-3388 EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,709.08	712.42
<i>For Class 52 Rating, Deduct</i>	-399.26	
<i>For Class 54 Rating, Add</i>	557.40	
<i>For Class 55 Rating, Add</i>	835.32	
<i>For Class 56 Rating, Add</i>	1,109.61	
40 05 19 00-3389 EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,194.20	715.28
<i>For Class 52 Rating, Deduct</i>	-452.15	
<i>For Class 54 Rating, Add</i>	629.57	
<i>For Class 55 Rating, Add</i>	942.64	
<i>For Class 56 Rating, Add</i>	1,251.60	
40 05 19 00-3390 EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,679.32	718.15
<i>For Class 52 Rating, Deduct</i>	-505.03	
<i>For Class 54 Rating, Add</i>	701.74	
<i>For Class 55 Rating, Add</i>	1,049.95	
<i>For Class 56 Rating, Add</i>	1,393.58	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3391	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,164.44	721.03
		<i>For Class 52 Rating, Deduct</i>		-557.92	
		<i>For Class 54 Rating, Add</i>		773.91	
		<i>For Class 55 Rating, Add</i>		1,157.27	
		<i>For Class 56 Rating, Add</i>		1,535.56	
40 05 19 00-3392	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,649.57	723.90
		<i>For Class 52 Rating, Deduct</i>		-610.80	
		<i>For Class 54 Rating, Add</i>		846.07	
		<i>For Class 55 Rating, Add</i>		1,264.59	
		<i>For Class 56 Rating, Add</i>		1,677.55	
40 05 19 00-3393	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,134.69	726.77
		<i>For Class 52 Rating, Deduct</i>		-663.69	
		<i>For Class 54 Rating, Add</i>		918.24	
		<i>For Class 55 Rating, Add</i>		1,371.90	
		<i>For Class 56 Rating, Add</i>		1,819.53	
40 05 19 00-3394	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,619.81	729.64
		<i>For Class 52 Rating, Deduct</i>		-716.57	
		<i>For Class 54 Rating, Add</i>		990.41	
		<i>For Class 55 Rating, Add</i>		1,479.22	
		<i>For Class 56 Rating, Add</i>		1,961.51	
40 05 19 00-3395	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,104.94	732.52
		<i>For Class 52 Rating, Deduct</i>		-769.46	
		<i>For Class 54 Rating, Add</i>		1,062.58	
		<i>For Class 55 Rating, Add</i>		1,586.54	
		<i>For Class 56 Rating, Add</i>		2,103.50	
40 05 19 00-3396	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,590.06	735.39
		<i>For Class 52 Rating, Deduct</i>		-822.34	
		<i>For Class 54 Rating, Add</i>		1,134.75	
		<i>For Class 55 Rating, Add</i>		1,693.85	
		<i>For Class 56 Rating, Add</i>		2,245.48	
40 05 19 00-3397	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,075.18	738.27
		<i>For Class 52 Rating, Deduct</i>		-875.23	
		<i>For Class 54 Rating, Add</i>		1,206.91	
		<i>For Class 55 Rating, Add</i>		1,801.17	
		<i>For Class 56 Rating, Add</i>		2,387.47	
40 05 19 00-3398	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		9,560.30	741.13
		<i>For Class 52 Rating, Deduct</i>		-928.11	
		<i>For Class 54 Rating, Add</i>		1,279.08	
		<i>For Class 55 Rating, Add</i>		1,908.48	
		<i>For Class 56 Rating, Add</i>		2,529.45	
40 05 19 00-3399	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		10,045.42	744.00
		<i>For Class 52 Rating, Deduct</i>		-981.00	
		<i>For Class 54 Rating, Add</i>		1,351.25	
		<i>For Class 55 Rating, Add</i>		2,015.80	
		<i>For Class 56 Rating, Add</i>		2,671.43	
40 05 19 00-3400	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		10,530.55	746.88
		<i>For Class 52 Rating, Deduct</i>		-1,033.88	
		<i>For Class 54 Rating, Add</i>		1,423.42	
		<i>For Class 55 Rating, Add</i>		2,123.12	
		<i>For Class 56 Rating, Add</i>		2,813.42	
40 05 19 00-3401	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,015.67	749.76
		<i>For Class 52 Rating, Deduct</i>		-1,086.76	
		<i>For Class 54 Rating, Add</i>		1,495.58	
		<i>For Class 55 Rating, Add</i>		2,230.43	
		<i>For Class 56 Rating, Add</i>		2,955.40	
40 05 19 00-3402	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,500.79	752.64
		<i>For Class 52 Rating, Deduct</i>		-1,139.65	
		<i>For Class 54 Rating, Add</i>		1,567.75	
		<i>For Class 55 Rating, Add</i>		2,337.75	
		<i>For Class 56 Rating, Add</i>		3,097.38	
40 05 19 00-3403	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,985.92	755.49
		<i>For Class 52 Rating, Deduct</i>		-1,192.53	
		<i>For Class 54 Rating, Add</i>		1,639.92	
		<i>For Class 55 Rating, Add</i>		2,445.06	
		<i>For Class 56 Rating, Add</i>		3,239.37	
40 05 19 00-3404	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		12,471.04	758.37
		<i>For Class 52 Rating, Deduct</i>		-1,245.42	
		<i>For Class 54 Rating, Add</i>		1,712.09	
		<i>For Class 55 Rating, Add</i>		2,552.38	
		<i>For Class 56 Rating, Add</i>		3,381.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3405 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,956.16	761.25
<i>For Class 52 Rating, Deduct</i>	-1,298.30	
<i>For Class 54 Rating, Add</i>	1,784.25	
<i>For Class 55 Rating, Add</i>	2,659.70	
<i>For Class 56 Rating, Add</i>	3,523.34	
40 05 19 00-3406 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,441.28	764.13
<i>For Class 52 Rating, Deduct</i>	-1,351.19	
<i>For Class 54 Rating, Add</i>	1,856.42	
<i>For Class 55 Rating, Add</i>	2,767.01	
<i>For Class 56 Rating, Add</i>	3,665.32	
40 05 19 00-3407 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,926.40	766.98
<i>For Class 52 Rating, Deduct</i>	-1,404.07	
<i>For Class 54 Rating, Add</i>	1,928.59	
<i>For Class 55 Rating, Add</i>	2,874.33	
<i>For Class 56 Rating, Add</i>	3,807.30	
40 05 19 00-3408 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,411.52	769.86
<i>For Class 52 Rating, Deduct</i>	-1,456.96	
<i>For Class 54 Rating, Add</i>	2,000.76	
<i>For Class 55 Rating, Add</i>	2,981.65	
<i>For Class 56 Rating, Add</i>	3,949.29	
40 05 19 00-3409 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,896.65	772.74
<i>For Class 52 Rating, Deduct</i>	-1,509.84	
<i>For Class 54 Rating, Add</i>	2,072.93	
<i>For Class 55 Rating, Add</i>	3,088.96	
<i>For Class 56 Rating, Add</i>	4,091.27	
40 05 19 00-3410 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	15,381.77	775.60
<i>For Class 52 Rating, Deduct</i>	-1,562.73	
<i>For Class 54 Rating, Add</i>	2,145.09	
<i>For Class 55 Rating, Add</i>	3,196.28	
<i>For Class 56 Rating, Add</i>	4,233.26	
40 05 19 00-3411 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	15,866.90	778.48
<i>For Class 52 Rating, Deduct</i>	-1,615.61	
<i>For Class 54 Rating, Add</i>	2,217.26	
<i>For Class 55 Rating, Add</i>	3,303.59	
<i>For Class 56 Rating, Add</i>	4,375.24	
40 05 19 00-3412 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,352.02	781.35
<i>For Class 52 Rating, Deduct</i>	-1,668.50	
<i>For Class 54 Rating, Add</i>	2,289.43	
<i>For Class 55 Rating, Add</i>	3,410.91	
<i>For Class 56 Rating, Add</i>	4,517.22	
40 05 19 00-3413 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,837.14	784.23
<i>For Class 52 Rating, Deduct</i>	-1,721.38	
<i>For Class 54 Rating, Add</i>	2,361.60	
<i>For Class 55 Rating, Add</i>	3,518.23	
<i>For Class 56 Rating, Add</i>	4,659.21	
40 05 19 00-3414 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	17,322.26	787.10
<i>For Class 52 Rating, Deduct</i>	-1,774.27	
<i>For Class 54 Rating, Add</i>	2,433.76	
<i>For Class 55 Rating, Add</i>	3,625.54	
<i>For Class 56 Rating, Add</i>	4,801.19	
40 05 19 00-3415 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	17,807.38	789.97
<i>For Class 52 Rating, Deduct</i>	-1,827.15	
<i>For Class 54 Rating, Add</i>	2,505.93	
<i>For Class 55 Rating, Add</i>	3,732.86	
<i>For Class 56 Rating, Add</i>	4,943.17	
40 05 19 00-3416 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	18,292.50	792.84
<i>For Class 52 Rating, Deduct</i>	-1,880.04	
<i>For Class 54 Rating, Add</i>	2,578.10	
<i>For Class 55 Rating, Add</i>	3,840.17	
<i>For Class 56 Rating, Add</i>	5,085.16	
40 05 19 00-3417 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	18,777.63	795.71
<i>For Class 52 Rating, Deduct</i>	-1,932.92	
<i>For Class 54 Rating, Add</i>	2,650.27	
<i>For Class 55 Rating, Add</i>	3,947.49	
<i>For Class 56 Rating, Add</i>	5,227.14	
40 05 19 00-3418 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	19,262.75	798.59
<i>For Class 52 Rating, Deduct</i>	-1,985.80	
<i>For Class 54 Rating, Add</i>	2,722.44	
<i>For Class 55 Rating, Add</i>	4,054.81	
<i>For Class 56 Rating, Add</i>	5,369.13	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-3419	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,747.88	801.46
		<i>For Class 52 Rating, Deduct</i>	-2,038.69	
		<i>For Class 54 Rating, Add</i>	2,794.60	
		<i>For Class 55 Rating, Add</i>	4,162.12	
		<i>For Class 56 Rating, Add</i>	5,511.11	
40 05 19 00-3420	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,233.00	804.34
		<i>For Class 52 Rating, Deduct</i>	-2,091.57	
		<i>For Class 54 Rating, Add</i>	2,866.77	
		<i>For Class 55 Rating, Add</i>	4,269.44	
		<i>For Class 56 Rating, Add</i>	5,653.09	
40 05 19 00-3421	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,718.12	807.20
		<i>For Class 52 Rating, Deduct</i>	-2,144.46	
		<i>For Class 54 Rating, Add</i>	2,938.94	
		<i>For Class 55 Rating, Add</i>	4,376.76	
		<i>For Class 56 Rating, Add</i>	5,795.08	
40 05 19 00-3422	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,203.24	810.08
		<i>For Class 52 Rating, Deduct</i>	-2,197.34	
		<i>For Class 54 Rating, Add</i>	3,011.11	
		<i>For Class 55 Rating, Add</i>	4,484.07	
		<i>For Class 56 Rating, Add</i>	5,937.06	
40 05 19 00-3423	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,688.36	812.95
		<i>For Class 52 Rating, Deduct</i>	-2,250.23	
		<i>For Class 54 Rating, Add</i>	3,083.27	
		<i>For Class 55 Rating, Add</i>	4,591.39	
		<i>For Class 56 Rating, Add</i>	6,079.05	
40 05 19 00-3424	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,173.48	815.82
		<i>For Class 52 Rating, Deduct</i>	-2,303.11	
		<i>For Class 54 Rating, Add</i>	3,155.44	
		<i>For Class 55 Rating, Add</i>	4,698.70	
		<i>For Class 56 Rating, Add</i>	6,221.03	
40 05 19 00-3425 24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>				
40 05 19 00-3426	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,201.41	838.80
		<i>For Class 52 Rating, Deduct</i>	-432.36	
		<i>For Class 54 Rating, Add</i>	604.83	
		<i>For Class 55 Rating, Add</i>	907.00	
		<i>For Class 56 Rating, Add</i>	1,205.25	
40 05 19 00-3427	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,801.81	841.68
		<i>For Class 52 Rating, Deduct</i>	-497.92	
		<i>For Class 54 Rating, Add</i>	694.29	
		<i>For Class 55 Rating, Add</i>	1,040.03	
		<i>For Class 56 Rating, Add</i>	1,381.24	
40 05 19 00-3428	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,402.22	844.56
		<i>For Class 52 Rating, Deduct</i>	-563.48	
		<i>For Class 54 Rating, Add</i>	783.74	
		<i>For Class 55 Rating, Add</i>	1,173.05	
		<i>For Class 56 Rating, Add</i>	1,557.23	
40 05 19 00-3429	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,002.61	847.41
		<i>For Class 52 Rating, Deduct</i>	-629.05	
		<i>For Class 54 Rating, Add</i>	873.20	
		<i>For Class 55 Rating, Add</i>	1,306.07	
		<i>For Class 56 Rating, Add</i>	1,733.22	
40 05 19 00-3430	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,603.00	850.29
		<i>For Class 52 Rating, Deduct</i>	-694.61	
		<i>For Class 54 Rating, Add</i>	962.66	
		<i>For Class 55 Rating, Add</i>	1,439.09	
		<i>For Class 56 Rating, Add</i>	1,909.21	
40 05 19 00-3431	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,203.40	853.17
		<i>For Class 52 Rating, Deduct</i>	-760.18	
		<i>For Class 54 Rating, Add</i>	1,052.12	
		<i>For Class 55 Rating, Add</i>	1,572.11	
		<i>For Class 56 Rating, Add</i>	2,085.20	
40 05 19 00-3432	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,803.79	856.05
		<i>For Class 52 Rating, Deduct</i>	-825.74	
		<i>For Class 54 Rating, Add</i>	1,141.58	
		<i>For Class 55 Rating, Add</i>	1,705.14	
		<i>For Class 56 Rating, Add</i>	2,261.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3433 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,404.18	858.90
<i>For Class 52 Rating, Deduct</i>	-891.31	
<i>For Class 54 Rating, Add</i>	1,231.04	
<i>For Class 55 Rating, Add</i>	1,838.16	
<i>For Class 56 Rating, Add</i>	2,437.18	
40 05 19 00-3434 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,004.57	861.78
<i>For Class 52 Rating, Deduct</i>	-956.87	
<i>For Class 54 Rating, Add</i>	1,320.49	
<i>For Class 55 Rating, Add</i>	1,971.18	
<i>For Class 56 Rating, Add</i>	2,613.16	
40 05 19 00-3435 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,604.97	864.66
<i>For Class 52 Rating, Deduct</i>	-1,022.44	
<i>For Class 54 Rating, Add</i>	1,409.95	
<i>For Class 55 Rating, Add</i>	2,104.20	
<i>For Class 56 Rating, Add</i>	2,789.16	
40 05 19 00-3436 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,205.37	867.53
<i>For Class 52 Rating, Deduct</i>	-1,088.00	
<i>For Class 54 Rating, Add</i>	1,499.41	
<i>For Class 55 Rating, Add</i>	2,237.22	
<i>For Class 56 Rating, Add</i>	2,965.14	
40 05 19 00-3437 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,805.77	870.41
<i>For Class 52 Rating, Deduct</i>	-1,153.57	
<i>For Class 54 Rating, Add</i>	1,588.87	
<i>For Class 55 Rating, Add</i>	2,370.25	
<i>For Class 56 Rating, Add</i>	3,141.13	
40 05 19 00-3438 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,406.16	873.27
<i>For Class 52 Rating, Deduct</i>	-1,219.13	
<i>For Class 54 Rating, Add</i>	1,678.33	
<i>For Class 55 Rating, Add</i>	2,503.27	
<i>For Class 56 Rating, Add</i>	3,317.12	
40 05 19 00-3439 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,006.55	876.15
<i>For Class 52 Rating, Deduct</i>	-1,284.70	
<i>For Class 54 Rating, Add</i>	1,767.79	
<i>For Class 55 Rating, Add</i>	2,636.29	
<i>For Class 56 Rating, Add</i>	3,493.11	
40 05 19 00-3440 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,606.95	879.02
<i>For Class 52 Rating, Deduct</i>	-1,350.26	
<i>For Class 54 Rating, Add</i>	1,857.25	
<i>For Class 55 Rating, Add</i>	2,769.31	
<i>For Class 56 Rating, Add</i>	3,669.10	
40 05 19 00-3441 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,207.34	881.90
<i>For Class 52 Rating, Deduct</i>	-1,415.83	
<i>For Class 54 Rating, Add</i>	1,946.71	
<i>For Class 55 Rating, Add</i>	2,902.33	
<i>For Class 56 Rating, Add</i>	3,845.09	
40 05 19 00-3442 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,807.73	884.77
<i>For Class 52 Rating, Deduct</i>	-1,481.39	
<i>For Class 54 Rating, Add</i>	2,036.16	
<i>For Class 55 Rating, Add</i>	3,035.35	
<i>For Class 56 Rating, Add</i>	4,021.08	
40 05 19 00-3443 EA 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	15,408.12	887.63
<i>For Class 52 Rating, Deduct</i>	-1,546.95	
<i>For Class 54 Rating, Add</i>	2,125.62	
<i>For Class 55 Rating, Add</i>	3,168.38	
<i>For Class 56 Rating, Add</i>	4,197.07	
40 05 19 00-3444 EA 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,008.53	890.51
<i>For Class 52 Rating, Deduct</i>	-1,612.52	
<i>For Class 54 Rating, Add</i>	2,215.08	
<i>For Class 55 Rating, Add</i>	3,301.40	
<i>For Class 56 Rating, Add</i>	4,373.06	
40 05 19 00-3445 EA 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,608.93	893.39
<i>For Class 52 Rating, Deduct</i>	-1,678.08	
<i>For Class 54 Rating, Add</i>	2,304.54	
<i>For Class 55 Rating, Add</i>	3,434.42	
<i>For Class 56 Rating, Add</i>	4,549.05	
40 05 19 00-3446 EA 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	17,209.32	896.26
<i>For Class 52 Rating, Deduct</i>	-1,743.65	
<i>For Class 54 Rating, Add</i>	2,394.00	
<i>For Class 55 Rating, Add</i>	3,567.44	
<i>For Class 56 Rating, Add</i>	4,725.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3447	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,809.71		899.12
		<i>For Class 52 Rating, Deduct</i>	-1,809.21		
		<i>For Class 54 Rating, Add</i>	2,483.46		
		<i>For Class 55 Rating, Add</i>	3,700.46		
		<i>For Class 56 Rating, Add</i>	4,901.02		
40 05 19 00-3448	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,410.10		902.00
		<i>For Class 52 Rating, Deduct</i>	-1,874.78		
		<i>For Class 54 Rating, Add</i>	2,572.91		
		<i>For Class 55 Rating, Add</i>	3,833.48		
		<i>For Class 56 Rating, Add</i>	5,077.01		
40 05 19 00-3449	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,010.50		904.88
		<i>For Class 52 Rating, Deduct</i>	-1,940.34		
		<i>For Class 54 Rating, Add</i>	2,662.37		
		<i>For Class 55 Rating, Add</i>	3,966.51		
		<i>For Class 56 Rating, Add</i>	5,253.00		
40 05 19 00-3450	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,610.89		907.75
		<i>For Class 52 Rating, Deduct</i>	-2,005.91		
		<i>For Class 54 Rating, Add</i>	2,751.83		
		<i>For Class 55 Rating, Add</i>	4,099.53		
		<i>For Class 56 Rating, Add</i>	5,428.99		
40 05 19 00-3451	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,211.28		910.62
		<i>For Class 52 Rating, Deduct</i>	-2,071.47		
		<i>For Class 54 Rating, Add</i>	2,841.29		
		<i>For Class 55 Rating, Add</i>	4,232.55		
		<i>For Class 56 Rating, Add</i>	5,604.98		
40 05 19 00-3452	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,811.68		913.49
		<i>For Class 52 Rating, Deduct</i>	-2,137.04		
		<i>For Class 54 Rating, Add</i>	2,930.75		
		<i>For Class 55 Rating, Add</i>	4,365.57		
		<i>For Class 56 Rating, Add</i>	5,780.97		
40 05 19 00-3453	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,412.08		916.37
		<i>For Class 52 Rating, Deduct</i>	-2,202.60		
		<i>For Class 54 Rating, Add</i>	3,020.21		
		<i>For Class 55 Rating, Add</i>	4,498.60		
		<i>For Class 56 Rating, Add</i>	5,956.96		
40 05 19 00-3454	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,012.48		919.23
		<i>For Class 52 Rating, Deduct</i>	-2,268.17		
		<i>For Class 54 Rating, Add</i>	3,109.67		
		<i>For Class 55 Rating, Add</i>	4,631.62		
		<i>For Class 56 Rating, Add</i>	6,132.95		
40 05 19 00-3455	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,686.86		970.94
		<i>For Class 52 Rating, Deduct</i>	-2,333.73		
		<i>For Class 54 Rating, Add</i>	3,200.01		
		<i>For Class 55 Rating, Add</i>	4,766.41		
		<i>For Class 56 Rating, Add</i>	6,311.60		
40 05 19 00-3456	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,287.25		973.82
		<i>For Class 52 Rating, Deduct</i>	-2,399.29		
		<i>For Class 54 Rating, Add</i>	3,289.47		
		<i>For Class 55 Rating, Add</i>	4,899.44		
		<i>For Class 56 Rating, Add</i>	6,487.59		
40 05 19 00-3457	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,887.64		976.70
		<i>For Class 52 Rating, Deduct</i>	-2,464.86		
		<i>For Class 54 Rating, Add</i>	3,378.93		
		<i>For Class 55 Rating, Add</i>	5,032.46		
		<i>For Class 56 Rating, Add</i>	6,663.58		
40 05 19 00-3458	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,488.05		979.56
		<i>For Class 52 Rating, Deduct</i>	-2,530.42		
		<i>For Class 54 Rating, Add</i>	3,468.39		
		<i>For Class 55 Rating, Add</i>	5,165.48		
		<i>For Class 56 Rating, Add</i>	6,839.57		
40 05 19 00-3459	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,088.44		982.43
		<i>For Class 52 Rating, Deduct</i>	-2,595.99		
		<i>For Class 54 Rating, Add</i>	3,557.85		
		<i>For Class 55 Rating, Add</i>	5,298.50		
		<i>For Class 56 Rating, Add</i>	7,015.56		
40 05 19 00-3460	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,500.35		985.31
		<i>For Class 52 Rating, Deduct</i>	-2,970.82		
		<i>For Class 54 Rating, Add</i>	4,069.03		
		<i>For Class 55 Rating, Add</i>	6,058.49		
		<i>For Class 56 Rating, Add</i>	8,020.94		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3461	EA			24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,289.22	988.19
				For Class 52 Rating, Deduct	-2,727.12	
				For Class 54 Rating, Add	3,736.76	
				For Class 55 Rating, Add	5,564.55	
				For Class 56 Rating, Add	7,367.53	
40 05 19 00-3462	EA			24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,889.63	991.05
				For Class 52 Rating, Deduct	-2,792.68	
				For Class 54 Rating, Add	3,826.22	
				For Class 55 Rating, Add	5,697.57	
				For Class 56 Rating, Add	7,543.53	
40 05 19 00-3463	EA			24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,490.02	993.92
				For Class 52 Rating, Deduct	-2,858.25	
				For Class 54 Rating, Add	3,915.68	
				For Class 55 Rating, Add	5,830.59	
				For Class 56 Rating, Add	7,719.51	
40 05 19 00-3464 30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>						
40 05 19 00-3465	EA			30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,805.14	1,183.52
				For Class 52 Rating, Deduct	-771.31	
				For Class 54 Rating, Add	1,073.31	
				For Class 55 Rating, Add	1,606.70	
				For Class 56 Rating, Add	2,133.07	
40 05 19 00-3466	EA			30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,664.20	1,186.39
				For Class 52 Rating, Deduct	-865.33	
				For Class 54 Rating, Add	1,201.57	
				For Class 55 Rating, Add	1,797.40	
				For Class 56 Rating, Add	2,385.37	
40 05 19 00-3467	EA			30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,523.26	1,189.27
				For Class 52 Rating, Deduct	-959.35	
				For Class 54 Rating, Add	1,329.82	
				For Class 55 Rating, Add	1,988.10	
				For Class 56 Rating, Add	2,637.66	
40 05 19 00-3468	EA			30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,382.31	1,192.13
				For Class 52 Rating, Deduct	-1,053.36	
				For Class 54 Rating, Add	1,458.08	
				For Class 55 Rating, Add	2,178.81	
				For Class 56 Rating, Add	2,889.96	
40 05 19 00-3469	EA			30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,241.36	1,195.01
				For Class 52 Rating, Deduct	-1,147.38	
				For Class 54 Rating, Add	1,586.34	
				For Class 55 Rating, Add	2,369.51	
				For Class 56 Rating, Add	3,142.25	
40 05 19 00-3470	EA			30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,100.41	1,197.88
				For Class 52 Rating, Deduct	-1,241.40	
				For Class 54 Rating, Add	1,714.60	
				For Class 55 Rating, Add	2,560.21	
				For Class 56 Rating, Add	3,394.54	
40 05 19 00-3471	EA			30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,959.46	1,200.76
				For Class 52 Rating, Deduct	-1,335.42	
				For Class 54 Rating, Add	1,842.85	
				For Class 55 Rating, Add	2,750.91	
				For Class 56 Rating, Add	3,646.84	
40 05 19 00-3472	EA			30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,818.52	1,203.63
				For Class 52 Rating, Deduct	-1,429.43	
				For Class 54 Rating, Add	1,971.11	
				For Class 55 Rating, Add	2,941.62	
				For Class 56 Rating, Add	3,899.13	
40 05 19 00-3473	EA			30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,677.58	1,206.49
				For Class 52 Rating, Deduct	-1,523.45	
				For Class 54 Rating, Add	2,099.37	
				For Class 55 Rating, Add	3,132.32	
				For Class 56 Rating, Add	4,151.43	
40 05 19 00-3474	EA			30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,536.63	1,209.37
				For Class 52 Rating, Deduct	-1,617.47	
				For Class 54 Rating, Add	2,227.63	
				For Class 55 Rating, Add	3,323.02	
				For Class 56 Rating, Add	4,403.72	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3475	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,395.69	1,212.25
			<i>For Class 52 Rating, Deduct</i>	-1,711.48	
			<i>For Class 54 Rating, Add</i>	2,355.88	
			<i>For Class 55 Rating, Add</i>	3,513.73	
			<i>For Class 56 Rating, Add</i>	4,656.01	
40 05 19 00-3476	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,254.74	1,215.12
			<i>For Class 52 Rating, Deduct</i>	-1,805.50	
			<i>For Class 54 Rating, Add</i>	2,484.14	
			<i>For Class 55 Rating, Add</i>	3,704.43	
			<i>For Class 56 Rating, Add</i>	4,908.31	
40 05 19 00-3477	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,113.80	1,217.98
			<i>For Class 52 Rating, Deduct</i>	-1,899.52	
			<i>For Class 54 Rating, Add</i>	2,612.40	
			<i>For Class 55 Rating, Add</i>	3,895.13	
			<i>For Class 56 Rating, Add</i>	5,160.60	
40 05 19 00-3478	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,972.85	1,220.86
			<i>For Class 52 Rating, Deduct</i>	-1,993.54	
			<i>For Class 54 Rating, Add</i>	2,740.66	
			<i>For Class 55 Rating, Add</i>	4,085.84	
			<i>For Class 56 Rating, Add</i>	5,412.90	
40 05 19 00-3479	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,831.90	1,223.74
			<i>For Class 52 Rating, Deduct</i>	-2,087.55	
			<i>For Class 54 Rating, Add</i>	2,868.91	
			<i>For Class 55 Rating, Add</i>	4,276.54	
			<i>For Class 56 Rating, Add</i>	5,665.19	
40 05 19 00-3480	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,690.96	1,226.60
			<i>For Class 52 Rating, Deduct</i>	-2,181.57	
			<i>For Class 54 Rating, Add</i>	2,997.17	
			<i>For Class 55 Rating, Add</i>	4,467.24	
			<i>For Class 56 Rating, Add</i>	5,917.48	
40 05 19 00-3481	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,550.01	1,229.48
			<i>For Class 52 Rating, Deduct</i>	-2,275.59	
			<i>For Class 54 Rating, Add</i>	3,125.43	
			<i>For Class 55 Rating, Add</i>	4,657.95	
			<i>For Class 56 Rating, Add</i>	6,169.77	
40 05 19 00-3482	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,409.07	1,232.35
			<i>For Class 52 Rating, Deduct</i>	-2,369.61	
			<i>For Class 54 Rating, Add</i>	3,253.69	
			<i>For Class 55 Rating, Add</i>	4,848.65	
			<i>For Class 56 Rating, Add</i>	6,422.07	
40 05 19 00-3483	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,268.12	1,235.23
			<i>For Class 52 Rating, Deduct</i>	-2,463.62	
			<i>For Class 54 Rating, Add</i>	3,381.94	
			<i>For Class 55 Rating, Add</i>	5,039.35	
			<i>For Class 56 Rating, Add</i>	6,674.36	
40 05 19 00-3484	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,127.18	1,238.09
			<i>For Class 52 Rating, Deduct</i>	-2,557.64	
			<i>For Class 54 Rating, Add</i>	3,510.20	
			<i>For Class 55 Rating, Add</i>	5,230.06	
			<i>For Class 56 Rating, Add</i>	6,926.66	
40 05 19 00-3485	EA		30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,986.23	1,240.97
			<i>For Class 52 Rating, Deduct</i>	-2,651.66	
			<i>For Class 54 Rating, Add</i>	3,638.46	
			<i>For Class 55 Rating, Add</i>	5,420.76	
			<i>For Class 56 Rating, Add</i>	7,178.95	
40 05 19 00-3486	EA		30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,845.28	1,243.85
			<i>For Class 52 Rating, Deduct</i>	-2,745.67	
			<i>For Class 54 Rating, Add</i>	3,766.72	
			<i>For Class 55 Rating, Add</i>	5,611.46	
			<i>For Class 56 Rating, Add</i>	7,431.24	
40 05 19 00-3487	EA		30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,704.34	1,246.71
			<i>For Class 52 Rating, Deduct</i>	-2,839.69	
			<i>For Class 54 Rating, Add</i>	3,894.97	
			<i>For Class 55 Rating, Add</i>	5,802.16	
			<i>For Class 56 Rating, Add</i>	7,683.54	
40 05 19 00-3488	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,563.40	1,249.58
			<i>For Class 52 Rating, Deduct</i>	-2,933.71	
			<i>For Class 54 Rating, Add</i>	4,023.23	
			<i>For Class 55 Rating, Add</i>	5,992.87	
			<i>For Class 56 Rating, Add</i>	7,935.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3489 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,422.45	1,252.46
<i>For Class 52 Rating, Deduct</i>	-3,027.73	
<i>For Class 54 Rating, Add</i>	4,151.49	
<i>For Class 55 Rating, Add</i>	6,183.57	
<i>For Class 56 Rating, Add</i>	8,188.13	
40 05 19 00-3490 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,281.50	1,255.34
<i>For Class 52 Rating, Deduct</i>	-3,121.74	
<i>For Class 54 Rating, Add</i>	4,279.75	
<i>For Class 55 Rating, Add</i>	6,374.27	
<i>For Class 56 Rating, Add</i>	8,440.42	
40 05 19 00-3491 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,140.55	1,258.20
<i>For Class 52 Rating, Deduct</i>	-3,215.76	
<i>For Class 54 Rating, Add</i>	4,408.00	
<i>For Class 55 Rating, Add</i>	6,564.98	
<i>For Class 56 Rating, Add</i>	8,692.71	
40 05 19 00-3492 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,999.62	1,261.08
<i>For Class 52 Rating, Deduct</i>	-3,309.78	
<i>For Class 54 Rating, Add</i>	4,536.26	
<i>For Class 55 Rating, Add</i>	6,755.68	
<i>For Class 56 Rating, Add</i>	8,945.01	
40 05 19 00-3493 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,858.67	1,263.95
<i>For Class 52 Rating, Deduct</i>	-3,403.79	
<i>For Class 54 Rating, Add</i>	4,664.52	
<i>For Class 55 Rating, Add</i>	6,946.38	
<i>For Class 56 Rating, Add</i>	9,197.30	
40 05 19 00-3494 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,717.72	1,266.83
<i>For Class 52 Rating, Deduct</i>	-3,497.81	
<i>For Class 54 Rating, Add</i>	4,792.78	
<i>For Class 55 Rating, Add</i>	7,137.08	
<i>For Class 56 Rating, Add</i>	9,449.60	
40 05 19 00-3495 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,576.77	1,269.70
<i>For Class 52 Rating, Deduct</i>	-3,591.83	
<i>For Class 54 Rating, Add</i>	4,921.03	
<i>For Class 55 Rating, Add</i>	7,327.79	
<i>For Class 56 Rating, Add</i>	9,701.89	
40 05 19 00-3496 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,435.84	1,272.57
<i>For Class 52 Rating, Deduct</i>	-3,685.85	
<i>For Class 54 Rating, Add</i>	5,049.29	
<i>For Class 55 Rating, Add</i>	7,518.49	
<i>For Class 56 Rating, Add</i>	9,954.18	
40 05 19 00-3497 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,294.89	1,275.44
<i>For Class 52 Rating, Deduct</i>	-3,779.86	
<i>For Class 54 Rating, Add</i>	5,177.55	
<i>For Class 55 Rating, Add</i>	7,709.19	
<i>For Class 56 Rating, Add</i>	10,206.48	
40 05 19 00-3498 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,153.94	1,278.31
<i>For Class 52 Rating, Deduct</i>	-3,873.88	
<i>For Class 54 Rating, Add</i>	5,305.81	
<i>For Class 55 Rating, Add</i>	7,899.90	
<i>For Class 56 Rating, Add</i>	10,458.77	
40 05 19 00-3499 EA 30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,012.99	1,281.19
<i>For Class 52 Rating, Deduct</i>	-3,967.90	
<i>For Class 54 Rating, Add</i>	5,434.06	
<i>For Class 55 Rating, Add</i>	8,090.60	
<i>For Class 56 Rating, Add</i>	10,711.06	
 40 05 19 00-3500 36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3501 EA 36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,004.56	1,499.50
<i>For Class 52 Rating, Deduct</i>	-960.58	
<i>For Class 54 Rating, Add</i>	1,337.15	
<i>For Class 55 Rating, Add</i>	2,001.89	
<i>For Class 56 Rating, Add</i>	2,657.90	
40 05 19 00-3502 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,156.01	1,502.38
<i>For Class 52 Rating, Deduct</i>	-1,086.76	
<i>For Class 54 Rating, Add</i>	1,509.27	
<i>For Class 55 Rating, Add</i>	2,257.80	
<i>For Class 56 Rating, Add</i>	2,996.45	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3503	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,307.47	1,505.25
			<i>For Class 52 Rating, Deduct</i>	-1,212.95	
			<i>For Class 54 Rating, Add</i>	1,681.39	
			<i>For Class 55 Rating, Add</i>	2,513.71	
			<i>For Class 56 Rating, Add</i>	3,335.00	
40 05 19 00-3504	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,458.92	1,508.13
			<i>For Class 52 Rating, Deduct</i>	-1,339.13	
			<i>For Class 54 Rating, Add</i>	1,853.50	
			<i>For Class 55 Rating, Add</i>	2,769.62	
			<i>For Class 56 Rating, Add</i>	3,673.56	
40 05 19 00-3505	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,610.37	1,511.00
			<i>For Class 52 Rating, Deduct</i>	-1,465.31	
			<i>For Class 54 Rating, Add</i>	2,025.62	
			<i>For Class 55 Rating, Add</i>	3,025.52	
			<i>For Class 56 Rating, Add</i>	4,012.11	
40 05 19 00-3506	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,761.82	1,513.86
			<i>For Class 52 Rating, Deduct</i>	-1,591.49	
			<i>For Class 54 Rating, Add</i>	2,197.74	
			<i>For Class 55 Rating, Add</i>	3,281.43	
			<i>For Class 56 Rating, Add</i>	4,350.66	
40 05 19 00-3507	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,913.27	1,516.74
			<i>For Class 52 Rating, Deduct</i>	-1,717.67	
			<i>For Class 54 Rating, Add</i>	2,369.85	
			<i>For Class 55 Rating, Add</i>	3,537.34	
			<i>For Class 56 Rating, Add</i>	4,689.21	
40 05 19 00-3508	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,064.73	1,519.62
			<i>For Class 52 Rating, Deduct</i>	-1,843.85	
			<i>For Class 54 Rating, Add</i>	2,541.97	
			<i>For Class 55 Rating, Add</i>	3,793.25	
			<i>For Class 56 Rating, Add</i>	5,027.76	
40 05 19 00-3509	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,216.18	1,522.50
			<i>For Class 52 Rating, Deduct</i>	-1,970.03	
			<i>For Class 54 Rating, Add</i>	2,714.09	
			<i>For Class 55 Rating, Add</i>	4,049.15	
			<i>For Class 56 Rating, Add</i>	5,366.31	
40 05 19 00-3510	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,367.63	1,525.35
			<i>For Class 52 Rating, Deduct</i>	-2,096.21	
			<i>For Class 54 Rating, Add</i>	2,886.21	
			<i>For Class 55 Rating, Add</i>	4,305.06	
			<i>For Class 56 Rating, Add</i>	5,704.86	
40 05 19 00-3511	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,519.08	1,528.23
			<i>For Class 52 Rating, Deduct</i>	-2,222.39	
			<i>For Class 54 Rating, Add</i>	3,058.32	
			<i>For Class 55 Rating, Add</i>	4,560.97	
			<i>For Class 56 Rating, Add</i>	6,043.41	
40 05 19 00-3512	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,670.54	1,531.11
			<i>For Class 52 Rating, Deduct</i>	-2,348.57	
			<i>For Class 54 Rating, Add</i>	3,230.44	
			<i>For Class 55 Rating, Add</i>	4,816.88	
			<i>For Class 56 Rating, Add</i>	6,381.97	
40 05 19 00-3513	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,821.99	1,533.97
			<i>For Class 52 Rating, Deduct</i>	-2,474.76	
			<i>For Class 54 Rating, Add</i>	3,402.56	
			<i>For Class 55 Rating, Add</i>	5,072.79	
			<i>For Class 56 Rating, Add</i>	6,720.52	
40 05 19 00-3514	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,973.44	1,536.85
			<i>For Class 52 Rating, Deduct</i>	-2,600.94	
			<i>For Class 54 Rating, Add</i>	3,574.67	
			<i>For Class 55 Rating, Add</i>	5,328.69	
			<i>For Class 56 Rating, Add</i>	7,059.07	
40 05 19 00-3515	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,124.89	1,539.72
			<i>For Class 52 Rating, Deduct</i>	-2,727.12	
			<i>For Class 54 Rating, Add</i>	3,746.79	
			<i>For Class 55 Rating, Add</i>	5,584.60	
			<i>For Class 56 Rating, Add</i>	7,397.62	
40 05 19 00-3516	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,276.35	1,542.60
			<i>For Class 52 Rating, Deduct</i>	-2,853.30	
			<i>For Class 54 Rating, Add</i>	3,918.91	
			<i>For Class 55 Rating, Add</i>	5,840.51	
			<i>For Class 56 Rating, Add</i>	7,736.17	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3517 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,427.80	1,545.46
<i>For Class 52 Rating, Deduct</i>	-2,979.48	
<i>For Class 54 Rating, Add</i>	4,091.03	
<i>For Class 55 Rating, Add</i>	6,096.42	
<i>For Class 56 Rating, Add</i>	8,074.72	
40 05 19 00-3518 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,579.25	1,548.34
<i>For Class 52 Rating, Deduct</i>	-3,105.66	
<i>For Class 54 Rating, Add</i>	4,263.14	
<i>For Class 55 Rating, Add</i>	6,352.32	
<i>For Class 56 Rating, Add</i>	8,413.27	
40 05 19 00-3519 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,730.70	1,551.22
<i>For Class 52 Rating, Deduct</i>	-3,231.84	
<i>For Class 54 Rating, Add</i>	4,435.26	
<i>For Class 55 Rating, Add</i>	6,608.23	
<i>For Class 56 Rating, Add</i>	8,751.82	
40 05 19 00-3520 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,882.16	1,554.09
<i>For Class 52 Rating, Deduct</i>	-3,358.02	
<i>For Class 54 Rating, Add</i>	4,607.38	
<i>For Class 55 Rating, Add</i>	6,864.14	
<i>For Class 56 Rating, Add</i>	9,090.38	
40 05 19 00-3521 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,033.61	1,556.96
<i>For Class 52 Rating, Deduct</i>	-3,484.20	
<i>For Class 54 Rating, Add</i>	4,779.50	
<i>For Class 55 Rating, Add</i>	7,120.05	
<i>For Class 56 Rating, Add</i>	9,428.93	
40 05 19 00-3522 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,185.06	1,559.83
<i>For Class 52 Rating, Deduct</i>	-3,610.38	
<i>For Class 54 Rating, Add</i>	4,951.61	
<i>For Class 55 Rating, Add</i>	7,375.96	
<i>For Class 56 Rating, Add</i>	9,767.48	
40 05 19 00-3523 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,336.51	1,562.71
<i>For Class 52 Rating, Deduct</i>	-3,736.57	
<i>For Class 54 Rating, Add</i>	5,123.73	
<i>For Class 55 Rating, Add</i>	7,631.86	
<i>For Class 56 Rating, Add</i>	10,106.03	
40 05 19 00-3524 EA 36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,487.97	1,565.57
<i>For Class 52 Rating, Deduct</i>	-3,862.75	
<i>For Class 54 Rating, Add</i>	5,295.85	
<i>For Class 55 Rating, Add</i>	7,887.77	
<i>For Class 56 Rating, Add</i>	10,444.58	
40 05 19 00-3525 EA 36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,639.42	1,568.45
<i>For Class 52 Rating, Deduct</i>	-3,988.93	
<i>For Class 54 Rating, Add</i>	5,467.96	
<i>For Class 55 Rating, Add</i>	8,143.68	
<i>For Class 56 Rating, Add</i>	10,783.13	
40 05 19 00-3526 EA 36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,790.88	1,571.32
<i>For Class 52 Rating, Deduct</i>	-4,115.11	
<i>For Class 54 Rating, Add</i>	5,640.08	
<i>For Class 55 Rating, Add</i>	8,399.59	
<i>For Class 56 Rating, Add</i>	11,121.68	
40 05 19 00-3527 EA 36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,942.33	1,574.20
<i>For Class 52 Rating, Deduct</i>	-4,241.29	
<i>For Class 54 Rating, Add</i>	5,812.20	
<i>For Class 55 Rating, Add</i>	8,655.50	
<i>For Class 56 Rating, Add</i>	11,460.24	
40 05 19 00-3528 EA 36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,093.78	1,577.07
<i>For Class 52 Rating, Deduct</i>	-4,367.47	
<i>For Class 54 Rating, Add</i>	5,984.32	
<i>For Class 55 Rating, Add</i>	8,911.40	
<i>For Class 56 Rating, Add</i>	11,798.79	
40 05 19 00-3529 EA 36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,245.24	1,579.94
<i>For Class 52 Rating, Deduct</i>	-4,493.65	
<i>For Class 54 Rating, Add</i>	6,156.43	
<i>For Class 55 Rating, Add</i>	9,167.31	
<i>For Class 56 Rating, Add</i>	12,137.34	
40 05 19 00-3530 EA 36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	44,396.69	1,582.81
<i>For Class 52 Rating, Deduct</i>	-4,619.83	
<i>For Class 54 Rating, Add</i>	6,328.55	
<i>For Class 55 Rating, Add</i>	9,423.22	
<i>For Class 56 Rating, Add</i>	12,475.89	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3531	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,548.14		1,585.68
		<i>For Class 52 Rating, Deduct</i>	-4,746.01		
		<i>For Class 54 Rating, Add</i>	6,500.67		
		<i>For Class 55 Rating, Add</i>	9,679.13		
		<i>For Class 56 Rating, Add</i>	12,814.44		
40 05 19 00-3532	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	46,699.60		1,588.56
		<i>For Class 52 Rating, Deduct</i>	-4,872.20		
		<i>For Class 54 Rating, Add</i>	6,672.79		
		<i>For Class 55 Rating, Add</i>	9,935.04		
		<i>For Class 56 Rating, Add</i>	13,152.99		
40 05 19 00-3533	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	47,851.05		1,591.43
		<i>For Class 52 Rating, Deduct</i>	-4,998.38		
		<i>For Class 54 Rating, Add</i>	6,844.90		
		<i>For Class 55 Rating, Add</i>	10,190.94		
		<i>For Class 56 Rating, Add</i>	13,491.54		
40 05 19 00-3534	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,002.50		1,594.30
		<i>For Class 52 Rating, Deduct</i>	-5,124.56		
		<i>For Class 54 Rating, Add</i>	7,017.02		
		<i>For Class 55 Rating, Add</i>	10,446.85		
		<i>For Class 56 Rating, Add</i>	13,830.09		
40 05 19 00-3535	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	50,153.95		1,597.17
		<i>For Class 52 Rating, Deduct</i>	-5,250.74		
		<i>For Class 54 Rating, Add</i>	7,189.14		
		<i>For Class 55 Rating, Add</i>	10,702.76		
		<i>For Class 56 Rating, Add</i>	14,168.65		
40 05 19 00-3536		42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>			
40 05 19 00-3537	EA	42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,571.08		1,890.18
		<i>For Class 52 Rating, Deduct</i>	-1,287.79		
		<i>For Class 54 Rating, Add</i>	1,790.44		
		<i>For Class 55 Rating, Add</i>	2,679.43		
		<i>For Class 56 Rating, Add</i>	3,556.72		
40 05 19 00-3538	EA	42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,267.96		1,893.05
		<i>For Class 52 Rating, Deduct</i>	-1,473.97		
		<i>For Class 54 Rating, Add</i>	2,044.37		
		<i>For Class 55 Rating, Add</i>	3,056.97		
		<i>For Class 56 Rating, Add</i>	4,056.17		
40 05 19 00-3539	EA	42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,950.80		1,895.93
		<i>For Class 52 Rating, Deduct</i>	-1,658.60		
		<i>For Class 54 Rating, Add</i>	2,296.20		
		<i>For Class 55 Rating, Add</i>	3,431.38		
		<i>For Class 56 Rating, Add</i>	4,551.48		
40 05 19 00-3540	EA	42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,650.50		1,898.80
		<i>For Class 52 Rating, Deduct</i>	-1,845.09		
		<i>For Class 54 Rating, Add</i>	2,550.55		
		<i>For Class 55 Rating, Add</i>	3,809.54		
		<i>For Class 56 Rating, Add</i>	5,051.76		
40 05 19 00-3541	EA	42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,338.96		1,901.68
		<i>For Class 52 Rating, Deduct</i>	-2,030.34		
		<i>For Class 54 Rating, Add</i>	2,803.22		
		<i>For Class 55 Rating, Add</i>	4,185.20		
		<i>For Class 56 Rating, Add</i>	5,548.73		
40 05 19 00-3542	EA	42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,044.28		1,904.54
		<i>For Class 52 Rating, Deduct</i>	-2,217.45		
		<i>For Class 54 Rating, Add</i>	3,058.42		
		<i>For Class 55 Rating, Add</i>	4,564.62		
		<i>For Class 56 Rating, Add</i>	6,050.67		
40 05 19 00-3543	EA	42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,732.73		1,907.42
		<i>For Class 52 Rating, Deduct</i>	-2,402.70		
		<i>For Class 54 Rating, Add</i>	3,311.09		
		<i>For Class 55 Rating, Add</i>	4,940.28		
		<i>For Class 56 Rating, Add</i>	6,547.64		
40 05 19 00-3544	EA	42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,440.86		1,910.30
		<i>For Class 52 Rating, Deduct</i>	-2,590.11		
		<i>For Class 54 Rating, Add</i>	3,566.70		
		<i>For Class 55 Rating, Add</i>	5,320.33		
		<i>For Class 56 Rating, Add</i>	7,050.41		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3545 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,132.12	1,913.17
<i>For Class 52 Rating, Deduct</i>	-2,775.67	
<i>For Class 54 Rating, Add</i>	3,819.79	
<i>For Class 55 Rating, Add</i>	5,696.62	
<i>For Class 56 Rating, Add</i>	7,548.20	
40 05 19 00-3546 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,843.06	1,916.03
<i>For Class 52 Rating, Deduct</i>	-2,963.40	
<i>For Class 54 Rating, Add</i>	4,075.83	
<i>For Class 55 Rating, Add</i>	6,077.29	
<i>For Class 56 Rating, Add</i>	8,051.80	
40 05 19 00-3547 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,534.33	1,918.91
<i>For Class 52 Rating, Deduct</i>	-3,148.96	
<i>For Class 54 Rating, Add</i>	4,328.92	
<i>For Class 55 Rating, Add</i>	6,453.58	
<i>For Class 56 Rating, Add</i>	8,549.60	
40 05 19 00-3548 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,245.28	1,921.79
<i>For Class 52 Rating, Deduct</i>	-3,336.68	
<i>For Class 54 Rating, Add</i>	4,584.96	
<i>For Class 55 Rating, Add</i>	6,834.25	
<i>For Class 56 Rating, Add</i>	9,053.20	
40 05 19 00-3549 EA 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,939.36	1,924.64
<i>For Class 52 Rating, Deduct</i>	-3,522.55	
<i>For Class 54 Rating, Add</i>	4,838.48	
<i>For Class 55 Rating, Add</i>	7,211.16	
<i>For Class 56 Rating, Add</i>	9,551.83	
40 05 19 00-3550 EA 42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,636.25	1,927.52
<i>For Class 52 Rating, Deduct</i>	-3,708.73	
<i>For Class 54 Rating, Add</i>	5,092.41	
<i>For Class 55 Rating, Add</i>	7,588.70	
<i>For Class 56 Rating, Add</i>	10,051.28	
40 05 19 00-3551 EA 42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,344.38	1,930.40
<i>For Class 52 Rating, Deduct</i>	-3,896.15	
<i>For Class 54 Rating, Add</i>	5,348.03	
<i>For Class 55 Rating, Add</i>	7,968.75	
<i>For Class 56 Rating, Add</i>	10,554.06	
40 05 19 00-3552 EA 42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,038.45	1,933.28
<i>For Class 52 Rating, Deduct</i>	-4,082.02	
<i>For Class 54 Rating, Add</i>	5,601.54	
<i>For Class 55 Rating, Add</i>	8,345.66	
<i>For Class 56 Rating, Add</i>	11,052.68	
40 05 19 00-3553 EA 42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,752.21	1,936.15
<i>For Class 52 Rating, Deduct</i>	-4,270.05	
<i>For Class 54 Rating, Add</i>	5,858.00	
<i>For Class 55 Rating, Add</i>	8,726.97	
<i>For Class 56 Rating, Add</i>	11,557.11	
40 05 19 00-3554 EA 42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,449.09	1,939.01
<i>For Class 52 Rating, Deduct</i>	-4,456.23	
<i>For Class 54 Rating, Add</i>	6,111.93	
<i>For Class 55 Rating, Add</i>	9,104.50	
<i>For Class 56 Rating, Add</i>	12,056.57	
40 05 19 00-3555 EA 42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,160.03	1,941.89
<i>For Class 52 Rating, Deduct</i>	-4,643.96	
<i>For Class 54 Rating, Add</i>	6,367.97	
<i>For Class 55 Rating, Add</i>	9,485.18	
<i>For Class 56 Rating, Add</i>	12,560.17	
40 05 19 00-3556 EA 42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	46,856.93	1,944.76
<i>For Class 52 Rating, Deduct</i>	-4,830.14	
<i>For Class 54 Rating, Add</i>	6,621.91	
<i>For Class 55 Rating, Add</i>	9,862.72	
<i>For Class 56 Rating, Add</i>	13,059.62	
40 05 19 00-3557 EA 42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,570.69	1,947.64
<i>For Class 52 Rating, Deduct</i>	-5,018.17	
<i>For Class 54 Rating, Add</i>	6,878.37	
<i>For Class 55 Rating, Add</i>	10,244.02	
<i>For Class 56 Rating, Add</i>	13,564.05	
40 05 19 00-3558 EA 42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	50,267.58	1,950.51
<i>For Class 52 Rating, Deduct</i>	-5,204.35	
<i>For Class 54 Rating, Add</i>	7,132.30	
<i>For Class 55 Rating, Add</i>	10,621.56	
<i>For Class 56 Rating, Add</i>	14,063.51	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3559	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	51,981.33		1,953.38
		<i>For Class 52 Rating, Deduct</i>	-5,392.38		
		<i>For Class 54 Rating, Add</i>	7,388.77		
		<i>For Class 55 Rating, Add</i>	11,002.86		
		<i>For Class 56 Rating, Add</i>	14,567.94		
40 05 19 00-3560	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	53,675.41		1,956.25
		<i>For Class 52 Rating, Deduct</i>	-5,578.25		
		<i>For Class 54 Rating, Add</i>	7,642.28		
		<i>For Class 55 Rating, Add</i>	11,379.78		
		<i>For Class 56 Rating, Add</i>	15,066.56		
40 05 19 00-3561	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	55,391.97		1,959.13
		<i>For Class 52 Rating, Deduct</i>	-5,766.60		
		<i>For Class 54 Rating, Add</i>	7,899.16		
		<i>For Class 55 Rating, Add</i>	11,761.70		
		<i>For Class 56 Rating, Add</i>	15,571.82		
40 05 19 00-3562	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	57,088.86		1,962.00
		<i>For Class 52 Rating, Deduct</i>	-5,952.78		
		<i>For Class 54 Rating, Add</i>	8,153.09		
		<i>For Class 55 Rating, Add</i>	12,139.24		
		<i>For Class 56 Rating, Add</i>	16,071.28		
40 05 19 00-3563	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	58,799.80		1,964.86
		<i>For Class 52 Rating, Deduct</i>	-6,140.50		
		<i>For Class 54 Rating, Add</i>	8,409.13		
		<i>For Class 55 Rating, Add</i>	12,519.92		
		<i>For Class 56 Rating, Add</i>	16,574.88		
40 05 19 00-3564	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	60,499.50		1,967.74
		<i>For Class 52 Rating, Deduct</i>	-6,326.99		
		<i>For Class 54 Rating, Add</i>	8,663.49		
		<i>For Class 55 Rating, Add</i>	12,898.09		
		<i>For Class 56 Rating, Add</i>	17,075.16		
40 05 19 00-3565	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	61,864.64		1,970.62
		<i>For Class 52 Rating, Deduct</i>	-6,476.67		
		<i>For Class 54 Rating, Add</i>	8,867.66		
		<i>For Class 55 Rating, Add</i>	13,201.64		
		<i>For Class 56 Rating, Add</i>	17,476.75		
40 05 19 00-3566	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	63,910.16		1,973.49
		<i>For Class 52 Rating, Deduct</i>	-6,701.20		
		<i>For Class 54 Rating, Add</i>	9,173.88		
		<i>For Class 55 Rating, Add</i>	13,656.93		
		<i>For Class 56 Rating, Add</i>	18,079.05		
40 05 19 00-3567	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	65,604.23		1,976.36
		<i>For Class 52 Rating, Deduct</i>	-6,887.07		
		<i>For Class 54 Rating, Add</i>	9,427.39		
		<i>For Class 55 Rating, Add</i>	14,033.84		
		<i>For Class 56 Rating, Add</i>	18,577.67		
40 05 19 00-3568	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	67,317.98		1,979.23
		<i>For Class 52 Rating, Deduct</i>	-7,075.11		
		<i>For Class 54 Rating, Add</i>	9,683.86		
		<i>For Class 55 Rating, Add</i>	14,415.14		
		<i>For Class 56 Rating, Add</i>	19,082.10		
40 05 19 00-3569	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	69,014.87		1,982.11
		<i>For Class 52 Rating, Deduct</i>	-7,261.28		
		<i>For Class 54 Rating, Add</i>	9,937.79		
		<i>For Class 55 Rating, Add</i>	14,792.68		
		<i>For Class 56 Rating, Add</i>	19,581.56		
40 05 19 00-3570	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	70,731.43		1,984.99
		<i>For Class 52 Rating, Deduct</i>	-7,449.63		
		<i>For Class 54 Rating, Add</i>	10,194.67		
		<i>For Class 55 Rating, Add</i>	15,174.61		
		<i>For Class 56 Rating, Add</i>	20,086.82		
40 05 19 00-3571	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	72,425.51		1,987.85
		<i>For Class 52 Rating, Deduct</i>	-7,635.50		
		<i>For Class 54 Rating, Add</i>	10,448.19		
		<i>For Class 55 Rating, Add</i>	15,551.52		
		<i>For Class 56 Rating, Add</i>	20,585.45		

40 05 19 00-3572 48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3068)



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3573 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	18,823.86	2,375.65
<i>For Class 52 Rating, Deduct</i>	-1,674.68	
<i>For Class 54 Rating, Add</i>	2,326.85	
<i>For Class 55 Rating, Add</i>	3,481.42	
<i>For Class 56 Rating, Add</i>	4,620.77	
40 05 19 00-3574 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	21,262.99	2,378.52
<i>For Class 52 Rating, Deduct</i>	-1,942.51	
<i>For Class 54 Rating, Add</i>	2,692.12	
<i>For Class 55 Rating, Add</i>	4,024.48	
<i>For Class 56 Rating, Add</i>	5,339.19	
40 05 19 00-3575 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	23,710.55	2,381.40
<i>For Class 52 Rating, Deduct</i>	-2,211.26	
<i>For Class 54 Rating, Add</i>	3,058.65	
<i>For Class 55 Rating, Add</i>	4,569.42	
<i>For Class 56 Rating, Add</i>	6,060.09	
40 05 19 00-3576 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	26,183.41	2,384.28
<i>For Class 52 Rating, Deduct</i>	-2,482.80	
<i>For Class 54 Rating, Add</i>	3,428.98	
<i>For Class 55 Rating, Add</i>	5,120.01	
<i>For Class 56 Rating, Add</i>	6,788.46	
40 05 19 00-3577 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	28,650.66	2,387.14
<i>For Class 52 Rating, Deduct</i>	-2,753.71	
<i>For Class 54 Rating, Add</i>	3,798.47	
<i>For Class 55 Rating, Add</i>	5,669.34	
<i>For Class 56 Rating, Add</i>	7,515.17	
40 05 19 00-3578 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	31,120.72	2,390.01
<i>For Class 52 Rating, Deduct</i>	-3,024.94	
<i>For Class 54 Rating, Add</i>	4,168.38	
<i>For Class 55 Rating, Add</i>	6,219.29	
<i>For Class 56 Rating, Add</i>	8,242.71	
40 05 19 00-3579 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	33,607.64	2,392.89
<i>For Class 52 Rating, Deduct</i>	-3,298.03	
<i>For Class 54 Rating, Add</i>	4,540.81	
<i>For Class 55 Rating, Add</i>	6,773.01	
<i>For Class 56 Rating, Add</i>	8,975.23	
40 05 19 00-3580 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	36,088.94	2,395.76
<i>For Class 52 Rating, Deduct</i>	-3,570.49	
<i>For Class 54 Rating, Add</i>	4,912.41	
<i>For Class 55 Rating, Add</i>	7,325.48	
<i>For Class 56 Rating, Add</i>	9,706.08	
40 05 19 00-3581 EA 48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	38,564.62	2,398.64
<i>For Class 52 Rating, Deduct</i>	-3,842.34	
<i>For Class 54 Rating, Add</i>	5,283.16	
<i>For Class 55 Rating, Add</i>	7,876.68	
<i>For Class 56 Rating, Add</i>	10,435.28	
40 05 19 00-3582 EA 48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	41,062.79	2,401.51
<i>For Class 52 Rating, Deduct</i>	-4,116.66	
<i>For Class 54 Rating, Add</i>	5,657.28	
<i>For Class 55 Rating, Add</i>	8,432.91	
<i>For Class 56 Rating, Add</i>	11,171.11	
40 05 19 00-3583 EA 48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	43,549.71	2,404.38
<i>For Class 52 Rating, Deduct</i>	-4,389.74	
<i>For Class 54 Rating, Add</i>	6,029.72	
<i>For Class 55 Rating, Add</i>	8,986.63	
<i>For Class 56 Rating, Add</i>	11,903.63	
40 05 19 00-3584 EA 48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	46,050.69	2,407.25
<i>For Class 52 Rating, Deduct</i>	-4,664.37	
<i>For Class 54 Rating, Add</i>	6,404.27	
<i>For Class 55 Rating, Add</i>	9,543.48	
<i>For Class 56 Rating, Add</i>	12,640.29	
40 05 19 00-3585 EA 48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	48,534.82	2,410.13
<i>For Class 52 Rating, Deduct</i>	-4,937.14	
<i>For Class 54 Rating, Add</i>	6,776.29	
<i>For Class 55 Rating, Add</i>	10,096.57	
<i>For Class 56 Rating, Add</i>	13,371.98	
40 05 19 00-3586 EA 48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	51,024.55	2,413.00
<i>For Class 52 Rating, Deduct</i>	-5,210.53	
<i>For Class 54 Rating, Add</i>	7,149.15	
<i>For Class 55 Rating, Add</i>	10,650.92	
<i>For Class 56 Rating, Add</i>	14,105.32	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3587	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		53,528.34	2,415.88
		<i>For Class 52 Rating, Deduct</i>		-5,485.47	
		<i>For Class 54 Rating, Add</i>		7,524.11	
		<i>For Class 55 Rating, Add</i>		11,208.40	
		<i>For Class 56 Rating, Add</i>		14,842.81	
40 05 19 00-3588	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		56,018.08	2,418.74
		<i>For Class 52 Rating, Deduct</i>		-5,758.86	
		<i>For Class 54 Rating, Add</i>		7,896.97	
		<i>For Class 55 Rating, Add</i>		11,762.74	
		<i>For Class 56 Rating, Add</i>		15,576.16	
40 05 19 00-3589	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		58,507.82	2,421.62
		<i>For Class 52 Rating, Deduct</i>		-6,032.26	
		<i>For Class 54 Rating, Add</i>		8,269.83	
		<i>For Class 55 Rating, Add</i>		12,317.09	
		<i>For Class 56 Rating, Add</i>		16,309.50	
40 05 19 00-3590	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		61,014.42	2,424.49
		<i>For Class 52 Rating, Deduct</i>		-6,307.50	
		<i>For Class 54 Rating, Add</i>		8,645.22	
		<i>For Class 55 Rating, Add</i>		12,875.20	
		<i>For Class 56 Rating, Add</i>		17,047.83	
40 05 19 00-3591	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		63,506.97	2,427.36
		<i>For Class 52 Rating, Deduct</i>		-6,581.21	
		<i>For Class 54 Rating, Add</i>		9,018.51	
		<i>For Class 55 Rating, Add</i>		13,430.17	
		<i>For Class 56 Rating, Add</i>		17,782.00	
40 05 19 00-3592	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		65,996.70	2,430.23
		<i>For Class 52 Rating, Deduct</i>		-6,854.60	
		<i>For Class 54 Rating, Add</i>		9,391.37	
		<i>For Class 55 Rating, Add</i>		13,984.51	
		<i>For Class 56 Rating, Add</i>		18,515.34	
40 05 19 00-3593	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		68,508.93	2,433.11
		<i>For Class 52 Rating, Deduct</i>		-7,130.47	
		<i>For Class 54 Rating, Add</i>		9,767.60	
		<i>For Class 55 Rating, Add</i>		14,543.87	
		<i>For Class 56 Rating, Add</i>		19,255.33	
40 05 19 00-3594	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		71,004.29	2,435.98
		<i>For Class 52 Rating, Deduct</i>		-7,404.48	
		<i>For Class 54 Rating, Add</i>		10,141.30	
		<i>For Class 55 Rating, Add</i>		15,099.47	
		<i>For Class 56 Rating, Add</i>		19,990.33	
40 05 19 00-3595	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		73,496.84	2,438.85
		<i>For Class 52 Rating, Deduct</i>		-7,678.18	
		<i>For Class 54 Rating, Add</i>		10,514.58	
		<i>For Class 55 Rating, Add</i>		15,654.44	
		<i>For Class 56 Rating, Add</i>		20,724.50	
40 05 19 00-3596	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		76,006.26	2,441.73
		<i>For Class 52 Rating, Deduct</i>		-7,953.73	
		<i>For Class 54 Rating, Add</i>		10,890.40	
		<i>For Class 55 Rating, Add</i>		16,213.18	
		<i>For Class 56 Rating, Add</i>		21,463.65	
40 05 19 00-3597	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		78,501.62	2,444.60
		<i>For Class 52 Rating, Deduct</i>		-8,227.74	
		<i>For Class 54 Rating, Add</i>		11,264.10	
		<i>For Class 55 Rating, Add</i>		16,768.78	
		<i>For Class 56 Rating, Add</i>		22,198.66	
40 05 19 00-3598	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		80,994.16	2,447.46
		<i>For Class 52 Rating, Deduct</i>		-8,501.45	
		<i>For Class 54 Rating, Add</i>		11,637.38	
		<i>For Class 55 Rating, Add</i>		17,323.75	
		<i>For Class 56 Rating, Add</i>		22,932.83	
40 05 19 00-3599	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		83,506.39	2,450.34
		<i>For Class 52 Rating, Deduct</i>		-8,777.31	
		<i>For Class 54 Rating, Add</i>		12,013.61	
		<i>For Class 55 Rating, Add</i>		17,883.11	
		<i>For Class 56 Rating, Add</i>		23,672.81	
40 05 19 00-3600	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		86,001.75	2,453.22
		<i>For Class 52 Rating, Deduct</i>		-9,051.32	
		<i>For Class 54 Rating, Add</i>		12,387.32	
		<i>For Class 55 Rating, Add</i>		18,438.71	
		<i>For Class 56 Rating, Add</i>		24,407.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3601 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	88,201.89	2,456.10
<i>For Class 52 Rating, Deduct</i>	-9,292.86	
<i>For Class 54 Rating, Add</i>	12,716.74	
<i>For Class 55 Rating, Add</i>	18,928.47	
<i>For Class 56 Rating, Add</i>	25,055.73	
40 05 19 00-3602 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	91,012.15	2,458.95
<i>For Class 52 Rating, Deduct</i>	-9,601.51	
<i>For Class 54 Rating, Add</i>	13,137.68	
<i>For Class 55 Rating, Add</i>	19,554.30	
<i>For Class 56 Rating, Add</i>	25,883.63	
40 05 19 00-3603 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	93,504.70	2,461.83
<i>For Class 52 Rating, Deduct</i>	-9,875.21	
<i>For Class 54 Rating, Add</i>	13,510.96	
<i>For Class 55 Rating, Add</i>	20,109.27	
<i>For Class 56 Rating, Add</i>	26,617.80	
40 05 19 00-3604 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	96,022.55	2,464.71
<i>For Class 52 Rating, Deduct</i>	-10,151.70	
<i>For Class 54 Rating, Add</i>	13,888.03	
<i>For Class 55 Rating, Add</i>	20,669.88	
<i>For Class 56 Rating, Add</i>	27,359.44	
40 05 19 00-3605 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	98,515.10	2,467.58
<i>For Class 52 Rating, Deduct</i>	-10,425.40	
<i>For Class 54 Rating, Add</i>	14,261.32	
<i>For Class 55 Rating, Add</i>	21,224.85	
<i>For Class 56 Rating, Add</i>	28,093.62	
40 05 19 00-3606 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	101,007.64	2,470.44
<i>For Class 52 Rating, Deduct</i>	-10,699.10	
<i>For Class 54 Rating, Add</i>	14,634.60	
<i>For Class 55 Rating, Add</i>	21,779.82	
<i>For Class 56 Rating, Add</i>	28,827.79	
40 05 19 00-3607 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	103,525.49	2,473.32
<i>For Class 52 Rating, Deduct</i>	-10,975.58	
<i>For Class 54 Rating, Add</i>	15,011.67	
<i>For Class 55 Rating, Add</i>	22,340.44	
<i>For Class 56 Rating, Add</i>	29,569.43	
40 05 19 00-3608 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows <small>(40 05 19 00-2059)</small>		
40 05 19 00-3609 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	796.26	138.59
40 05 19 00-3610 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,166.84	177.23
40 05 19 00-3611 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,667.23	200.74
40 05 19 00-3612 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,382.57	254.51
40 05 19 00-3613 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,969.80	282.22
40 05 19 00-3614 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,643.89	306.58
40 05 19 00-3615 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	4,474.65	377.98
40 05 19 00-3616 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,613.94	453.57
40 05 19 00-3617 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	6,861.22	571.16
40 05 19 00-3618 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	10,215.89	646.76
40 05 19 00-3619 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	15,859.84	856.75
40 05 19 00-3620 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	23,530.11	970.14
40 05 19 00-3621 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	40,178.93	1,108.73
40 05 19 00-3622 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	53,156.69	1,360.71
40 05 19 00-3623 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows <small>(40 05 19 00-2059)</small>		
40 05 19 00-3624 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	758.49	138.59
40 05 19 00-3625 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,104.43	177.23
40 05 19 00-3626 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,512.86	200.74
40 05 19 00-3627 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,162.51	254.51
40 05 19 00-3628 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,685.69	282.22
40 05 19 00-3629 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,129.87	306.58
40 05 19 00-3630 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,847.32	377.98
40 05 19 00-3631 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	4,897.92	453.57
40 05 19 00-3632 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,159.98	571.16
40 05 19 00-3633 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,092.47	646.76
40 05 19 00-3634 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	15,483.77	856.75
40 05 19 00-3635 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	23,027.58	970.14
40 05 19 00-3636 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	34,828.51	1,108.73
40 05 19 00-3637 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	47,101.75	1,360.71
40 05 19 00-3638 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows <small>(40 05 19 00-2059)</small>		
40 05 19 00-3639 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	756.85	138.59

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 05 19 00-3640	EA	6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,083.08	177.23
40 05 19 00-3641	EA	8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,499.72	200.74
40 05 19 00-3642	EA	10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,111.60	254.51
40 05 19 00-3643	EA	12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,799.00	282.22
40 05 19 00-3644	EA	14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,476.38	306.58
40 05 19 00-3645	EA	16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,926.14	377.98
40 05 19 00-3646	EA	18"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,993.17	453.57
40 05 19 00-3647	EA	20"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,568.90	571.16
40 05 19 00-3648	EA	24"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,036.76	646.76
40 05 19 00-3649	EA	30"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,651.28	856.75
40 05 19 00-3650	EA	36"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	23,410.23	970.14
40 05 19 00-3651	EA	42"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	35,592.16	1,108.73
40 05 19 00-3652	EA	48"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	48,100.24	1,360.71

40 05 19 00-3653 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-2059)

40 05 19 00-3654	EA	4"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	820.89	138.59
40 05 19 00-3655	EA	6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,202.96	177.23
40 05 19 00-3656	EA	8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,548.99	200.74
40 05 19 00-3657	EA	10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,287.32	254.51
40 05 19 00-3658	EA	12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,125.81	282.22
40 05 19 00-3659	EA	14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,560.13	306.58
40 05 19 00-3660	EA	16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,279.23	377.98
40 05 19 00-3661	EA	18"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,993.17	453.57
40 05 19 00-3662	EA	20"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,568.90	571.16
40 05 19 00-3663	EA	24"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,371.78	646.76
40 05 19 00-3664	EA	30"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	15,815.50	856.75
40 05 19 00-3665	EA	36"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	23,577.73	970.14
40 05 19 00-3666	EA	42"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	35,767.88	1,108.73
40 05 19 00-3667	EA	48"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	48,454.96	1,360.71

40 05 19 00-3668 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-2059)

40 05 19 00-3669	EA	6" x 4"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,135.92	157.91
40 05 19 00-3670	EA	8" x 4"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,465.76	169.67
40 05 19 00-3671	EA	8" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,591.93	188.98
40 05 19 00-3672	EA	10" x 4"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,188.02	196.55
40 05 19 00-3673	EA	10" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,228.78	215.86
40 05 19 00-3674	EA	10" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,392.76	227.62
40 05 19 00-3675	EA	12" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,613.35	230.14
40 05 19 00-3676	EA	12" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,918.56	241.90
40 05 19 00-3677	EA	12" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,056.17	268.78
40 05 19 00-3678	EA	14" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,043.37	241.90
40 05 19 00-3679	EA	14" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,300.96	253.66
40 05 19 00-3680	EA	14" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,578.16	280.54
40 05 19 00-3681	EA	14" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,888.84	294.82
40 05 19 00-3682	EA	16" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,503.09	277.60
40 05 19 00-3683	EA	16" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,713.06	289.36
40 05 19 00-3684	EA	16" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,134.78	316.24
40 05 19 00-3685	EA	16" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,446.45	330.10
40 05 19 00-3686	EA	16" x 14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,701.39	342.28
40 05 19 00-3687	EA	18" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,067.82	315.40
40 05 19 00-3688	EA	18" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,709.69	327.16
40 05 19 00-3689	EA	18" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,794.75	354.04
40 05 19 00-3690	EA	18" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,007.89	367.89
40 05 19 00-3691	EA	18" x 14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,361.36	380.08
40 05 19 00-3692	EA	18" x 16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,747.18	415.77
40 05 19 00-3693	EA	20" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,086.40	374.20
40 05 19 00-3694	EA	20" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,363.70	385.96
40 05 19 00-3695	EA	20" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,434.10	412.83
40 05 19 00-3696	EA	20" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,629.18	426.69
40 05 19 00-3697	EA	20" x 14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,224.06	438.87
40 05 19 00-3698	EA	20" x 16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,041.66	474.56
40 05 19 00-3699	EA	20" x 18"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,406.03	512.36
40 05 19 00-3700	EA	24" x 6"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,037.18	412.00
40 05 19 00-3701	EA	24" x 8"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,309.54	423.76
40 05 19 00-3702	EA	24" x 10"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,764.11	450.63
40 05 19 00-3703	EA	24" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,093.85	464.49
40 05 19 00-3704	EA	24" x 14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,729.78	476.67
40 05 19 00-3705	EA	24" x 16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,299.54	512.36
40 05 19 00-3706	EA	24" x 18"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,458.62	550.16
40 05 19 00-3707	EA	24" x 20"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,910.86	544.08
40 05 19 00-3708	EA	30" x 12"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,961.11	569.49
40 05 19 00-3709	EA	30" x 14"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,643.03	581.66
40 05 19 00-3710	EA	30" x 16"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,314.72	617.36
40 05 19 00-3711	EA	30" x 18"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,117.69	655.16
40 05 19 00-3712	EA	30" x 20"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	21,576.91	713.96
40 05 19 00-3713	EA	30" x 24"	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,059.64	751.75



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-3714	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	20,848.26	770.65
40 05 19 00-3715	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	22,777.68	808.45
40 05 19 00-3716	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,876.12	913.44
40 05 19 00-3717	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	30,920.00	839.95
40 05 19 00-3718	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,668.66	877.75
40 05 19 00-3719	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,637.23	982.73
40 05 19 00-3720	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	45,158.31	1,039.43
40 05 19 00-3721	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	43,193.78	1,014.24
40 05 19 00-3722	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	46,952.66	1,119.23
40 05 19 00-3723	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	48,294.86	1,175.92
40 05 19 00-3724	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	59,918.53	1,245.22
40 05 19 00-3725		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-2059)		
40 05 19 00-3726	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	935.85	138.59
40 05 19 00-3727	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,472.29	177.23
40 05 19 00-3728	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,186.18	200.74
40 05 19 00-3729	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,052.61	254.51
40 05 19 00-3730	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,270.45	282.22
40 05 19 00-3731	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,006.95	306.58
40 05 19 00-3732	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,381.29	377.98
40 05 19 00-3733	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	7,811.26	453.57
40 05 19 00-3734	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	10,429.81	571.16
40 05 19 00-3735	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,211.58	646.76
40 05 19 00-3736	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	26,345.54	856.75
40 05 19 00-3737	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	39,891.75	970.14
40 05 19 00-3738	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	61,462.36	1,108.73
40 05 19 00-3739		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-2059)		
40 05 19 00-3740	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	981.83	138.59
40 05 19 00-3741	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,381.97	177.23
40 05 19 00-3742	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,246.94	200.74
40 05 19 00-3743	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,006.63	254.51
40 05 19 00-3744	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,019.19	282.22
40 05 19 00-3745	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,765.54	306.58
40 05 19 00-3746	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,808.15	377.98
40 05 19 00-3747	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,193.77	453.57
40 05 19 00-3748	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,295.02	571.16
40 05 19 00-3749	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	13,050.39	646.76
40 05 19 00-3750	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	21,052.60	856.75
40 05 19 00-3751	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	29,970.98	970.14
40 05 19 00-3752	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	52,769.99	1,108.73
40 05 19 00-3753	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	59,211.63	1,360.71
40 05 19 00-3754		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-2059)		
40 05 19 00-3755	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,205.99	222.59
40 05 19 00-3756	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,561.17	273.82
40 05 19 00-3757	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	2,256.57	305.74
40 05 19 00-3758	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	3,191.77	397.29
40 05 19 00-3759	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	4,269.62	433.41
40 05 19 00-3760	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	5,723.36	466.17
40 05 19 00-3761	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	6,185.44	587.96
40 05 19 00-3762	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	7,682.33	671.96
40 05 19 00-3763	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	9,664.08	848.35
40 05 19 00-3764	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	14,243.25	936.54
40 05 19 00-3765	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	23,412.46	1,293.52
40 05 19 00-3766	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	33,103.92	1,482.50
40 05 19 00-3767	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	70,786.93	1,713.49
40 05 19 00-3768		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees (40 05 19 00-2059)		
40 05 19 00-3769	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	1,606.75	248.63
40 05 19 00-3770	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,084.06	253.66
40 05 19 00-3771	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,050.31	285.58
40 05 19 00-3772	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,776.75	280.54
40 05 19 00-3773	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,705.23	312.46
40 05 19 00-3774	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,819.52	332.62
40 05 19 00-3775	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,545.61	294.82
40 05 19 00-3776	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,502.00	326.74
40 05 19 00-3777	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,654.08	346.90
40 05 19 00-3778	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	4,213.54	411.57
40 05 19 00-3779	EA	14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,079.20	306.58
40 05 19 00-3780	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	4,956.78	338.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 05 19 00-3781	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,131.84	358.66
40 05 19 00-3782	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,325.08	423.33
40 05 19 00-3783	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,598.58	445.59
40 05 19 00-3784	EA	16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,130.13	342.28
40 05 19 00-3785	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,155.38	374.20
40 05 19 00-3786	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,272.97	394.36
40 05 19 00-3787	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,366.15	459.03
40 05 19 00-3788	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,697.01	481.29
40 05 19 00-3789	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,807.13	501.87
40 05 19 00-3790	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,757.87	412.00
40 05 19 00-3791	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,781.98	432.16
40 05 19 00-3792	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,733.81	496.83
40 05 19 00-3793	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,361.90	519.09
40 05 19 00-3794	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	7,846.47	539.66
40 05 19 00-3795	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,264.30	625.76
40 05 19 00-3796	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,218.36	470.79
40 05 19 00-3797	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,350.73	490.95
40 05 19 00-3798	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,604.73	555.63
40 05 19 00-3799	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,896.28	577.89
40 05 19 00-3800	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,978.37	598.46
40 05 19 00-3801	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,601.62	684.56
40 05 19 00-3802	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,773.42	730.76
40 05 19 00-3803	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,497.45	508.59
40 05 19 00-3804	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,866.29	528.74
40 05 19 00-3805	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,153.14	593.42
40 05 19 00-3806	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,254.33	615.69
40 05 19 00-3807	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,490.79	636.26
40 05 19 00-3808	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,757.54	722.36
40 05 19 00-3809	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,189.21	768.56
40 05 19 00-3810	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,633.64	821.26
40 05 19 00-3811	EA	30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	18,812.02	613.58
40 05 19 00-3812	EA	30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	18,896.76	633.74
40 05 19 00-3813	EA	30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,326.49	698.41
40 05 19 00-3814	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,360.22	720.67
40 05 19 00-3815	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,391.39	741.26
40 05 19 00-3816	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,521.83	827.35
40 05 19 00-3817	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,138.69	873.54
40 05 19 00-3818	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	21,116.63	991.13
40 05 19 00-3819	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	25,742.00	1,041.53
40 05 19 00-3820	EA	36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,021.76	878.16
40 05 19 00-3821	EA	36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,265.99	894.13
40 05 19 00-3822	EA	36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,389.55	939.90
40 05 19 00-3823	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,582.77	957.95
40 05 19 00-3824	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,663.43	974.34
40 05 19 00-3825	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,864.09	1,035.24
40 05 19 00-3826	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,985.20	1,077.23
40 05 19 00-3827	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,337.23	1,165.43
40 05 19 00-3828	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,903.29	1,209.53
40 05 19 00-3829	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	37,381.65	1,388.01
40 05 19 00-3830	EA	42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,074.31	846.67
40 05 19 00-3831	EA	42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,166.25	867.25
40 05 19 00-3832	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,411.65	953.34
40 05 19 00-3833	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,540.77	999.54
40 05 19 00-3834	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,953.78	1,117.13
40 05 19 00-3835	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,501.46	1,167.52
40 05 19 00-3836	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	53,231.00	1,419.51
40 05 19 00-3837	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	67,953.77	1,551.81
40 05 19 00-3838	EA	48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	55,172.81	983.16
40 05 19 00-3839	EA	48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	55,203.99	1,003.74
40 05 19 00-3840	EA	48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	55,508.52	1,089.83
40 05 19 00-3841	EA	48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	55,578.52	1,136.03
40 05 19 00-3842	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	55,991.53	1,253.62
40 05 19 00-3843	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,481.74	1,304.01
40 05 19 00-3844	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,686.29	1,556.00

40 05 19 00-3845 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base

<small>(40 05 19 00-2059)</small>				
40 05 19 00-3846	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,301.24	222.59
40 05 19 00-3847	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,838.71	273.82
40 05 19 00-3848	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	2,726.25	305.74
40 05 19 00-3849	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	4,081.87	397.29
40 05 19 00-3850	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	5,504.58	433.41
40 05 19 00-3851	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	6,204.54	466.17
40 05 19 00-3852	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	7,604.34	587.96
40 05 19 00-3853	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	9,191.55	671.96
40 05 19 00-3854	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	12,083.10	848.35
40 05 19 00-3855	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	17,399.64	936.54
40 05 19 00-3856	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	28,825.28	1,293.52
40 05 19 00-3857	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	41,052.36	1,482.50



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-3858		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-2059)</small>		
40 05 19 00-3859	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,063.12	222.59
40 05 19 00-3860	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,549.68	273.82
40 05 19 00-3861	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,294.34	305.74
40 05 19 00-3862	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,024.26	397.29
40 05 19 00-3863	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,575.07	433.41
40 05 19 00-3864	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,127.35	466.17
40 05 19 00-3865		Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-2059)</small>		
40 05 19 00-3866	EA	4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,366.10	306.58
40 05 19 00-3867	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,923.87	332.20
40 05 19 00-3868	EA	6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,998.20	370.42
40 05 19 00-3869	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,485.57	337.66
40 05 19 00-3870	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,651.57	382.18
40 05 19 00-3871	EA	8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,709.61	410.74
40 05 19 00-3872	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,266.95	364.54
40 05 19 00-3873	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,526.54	409.05
40 05 19 00-3874	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,809.58	437.61
40 05 19 00-3875	EA	10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,583.98	540.09
40 05 19 00-3876	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,273.29	378.39
40 05 19 00-3877	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,436.00	422.91
40 05 19 00-3878	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,719.02	451.47
40 05 19 00-3879	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,542.69	553.94
40 05 19 00-3880	EA	12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,198.28	584.60
40 05 19 00-3881	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,342.90	435.09
40 05 19 00-3882	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,625.94	463.65
40 05 19 00-3883	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,112.94	566.13
40 05 19 00-3884	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,592.93	596.79
40 05 19 00-3885	EA	14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,873.32	625.76
40 05 19 00-3886	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,377.41	470.79
40 05 19 00-3887	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,706.43	499.34
40 05 19 00-3888	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,195.06	601.82
40 05 19 00-3889	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,721.04	632.48
40 05 19 00-3890	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,587.96	661.46
40 05 19 00-3891	EA	16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,546.54	797.95
40 05 19 00-3892	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,702.36	508.59
40 05 19 00-3893	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,031.37	537.14
40 05 19 00-3894	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,424.77	639.62
40 05 19 00-3895	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,950.75	670.28
40 05 19 00-3896	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,044.05	699.25
40 05 19 00-3897	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,682.76	835.74
40 05 19 00-3898	EA	18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,049.60	890.34
40 05 19 00-3899	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,622.54	567.39
40 05 19 00-3900	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,974.55	595.94
40 05 19 00-3901	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,335.10	698.41
40 05 19 00-3902	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,895.56	729.07
40 05 19 00-3903	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,044.58	758.05
40 05 19 00-3904	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,000.37	894.54
40 05 19 00-3905	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,390.19	949.14
40 05 19 00-3906	EA	20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,378.39	1,125.53
40 05 19 00-3907	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,392.79	605.18
40 05 19 00-3908	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,644.62	633.74
40 05 19 00-3909	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,157.90	736.21
40 05 19 00-3910	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,513.08	766.87
40 05 19 00-3911	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,711.36	795.85
40 05 19 00-3912	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,277.82	932.34
40 05 19 00-3913	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,014.53	986.94
40 05 19 00-3914	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,850.22	1,098.45
40 05 19 00-3915	EA	24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	19,484.22	1,226.32
40 05 19 00-3916	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,415.33	871.87
40 05 19 00-3917	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,513.43	900.84
40 05 19 00-3918	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,104.52	1,037.33
40 05 19 00-3919	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,300.56	1,091.94
40 05 19 00-3920	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,172.16	1,268.32
40 05 19 00-3921	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	28,606.65	1,331.32
40 05 19 00-3922	EA	30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,021.03	1,730.29
40 05 19 00-3923	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	28,580.42	1,109.15
40 05 19 00-3924	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	28,617.97	1,133.93
40 05 19 00-3925	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,121.61	1,245.22
40 05 19 00-3926	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,306.36	1,295.61
40 05 19 00-3927	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,025.02	1,442.60
40 05 19 00-3928	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,992.81	1,499.30
40 05 19 00-3929	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	41,350.90	1,824.78
40 05 19 00-3930	EA	36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	45,137.78	1,994.88
40 05 19 00-3931	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,549.28	1,163.33

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3932	EA		42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,692.78	1,217.92
40 05 19 00-3933	EA		42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,521.67	1,394.31
40 05 19 00-3934	EA		42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	44,553.20	1,457.31
40 05 19 00-3935	EA		42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	57,379.25	1,856.29
40 05 19 00-3936	EA		42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	78,077.72	2,064.17
40 05 19 00-3937	EA		48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	57,945.35	1,530.80
40 05 19 00-3938	EA		48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	58,976.88	1,593.80
40 05 19 00-3939	EA		48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	61,266.33	1,992.78

40 05 19 00-3940 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-2059)

40 05 19 00-3941	EA		6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	973.34	157.91
40 05 19 00-3942	EA		8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,294.97	169.67
40 05 19 00-3943	EA		8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,376.80	188.98
40 05 19 00-3944	EA		10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,726.55	196.55
40 05 19 00-3945	EA		10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,719.69	215.86
40 05 19 00-3946	EA		10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,931.29	227.62
40 05 19 00-3947	EA		12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,203.08	210.83
40 05 19 00-3948	EA		12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,237.28	230.14
40 05 19 00-3949	EA		12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,394.69	241.90
40 05 19 00-3950	EA		12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,602.91	268.78
40 05 19 00-3951	EA		14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,710.00	241.90
40 05 19 00-3952	EA		14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,919.96	253.66
40 05 19 00-3953	EA		14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,124.90	280.54
40 05 19 00-3954	EA		14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,034.87	294.82
40 05 19 00-3955	EA		16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,218.99	277.60
40 05 19 00-3956	EA		16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,069.30	289.36
40 05 19 00-3957	EA		16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,315.30	316.24
40 05 19 00-3958	EA		16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,710.73	330.10
40 05 19 00-3959	EA		16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,174.23	342.28
40 05 19 00-3960	EA		18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,895.14	327.16
40 05 19 00-3961	EA		18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,175.62	354.04
40 05 19 00-3962	EA		18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,135.86	367.89
40 05 19 00-3963	EA		18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,643.70	380.08
40 05 19 00-3964	EA		18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,597.61	415.77
40 05 19 00-3965	EA		20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,746.22	385.96
40 05 19 00-3966	EA		20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,043.13	412.83
40 05 19 00-3967	EA		20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,922.89	426.69
40 05 19 00-3968	EA		20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,547.33	438.87
40 05 19 00-3969	EA		20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,218.78	474.56
40 05 19 00-3970	EA		20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,226.90	512.36
40 05 19 00-3971	EA		24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,874.01	450.63
40 05 19 00-3972	EA		24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,428.74	464.49
40 05 19 00-3973	EA		24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,585.14	476.67
40 05 19 00-3974	EA		24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,785.27	512.36
40 05 19 00-3975	EA		24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,965.83	550.16
40 05 19 00-3976	EA		24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,367.16	544.08
40 05 19 00-3977	EA		30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,373.47	617.36
40 05 19 00-3978	EA		30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,764.11	655.16
40 05 19 00-3979	EA		30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,515.02	713.96
40 05 19 00-3980	EA		30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,672.60	751.75
40 05 19 00-3981	EA		36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,110.20	674.06
40 05 19 00-3982	EA		36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,341.55	711.86
40 05 19 00-3983	EA		36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	17,353.58	770.65
40 05 19 00-3984	EA		36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,259.88	808.45
40 05 19 00-3985	EA		36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	20,737.80	913.44
40 05 19 00-3986	EA		42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	25,304.98	877.75
40 05 19 00-3987	EA		42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	28,287.06	982.73
40 05 19 00-3988	EA		42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	31,273.14	1,039.43
40 05 19 00-3989	EA		48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	33,516.06	1,014.24
40 05 19 00-3990	EA		48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	35,504.60	1,119.23
40 05 19 00-3991	EA		48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	39,411.99	1,175.92
40 05 19 00-3992	EA		48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	43,868.92	1,245.22

40 05 19 00-3993 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-2059)

40 05 19 00-3994	EA		6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,040.67	157.91
40 05 19 00-3995	EA		8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,372.15	169.67
40 05 19 00-3996	EA		8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,495.04	188.98
40 05 19 00-3997	EA		10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,726.55	196.55
40 05 19 00-3998	EA		10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,801.80	215.86
40 05 19 00-3999	EA		10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,010.12	227.62
40 05 19 00-4000	EA		12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,203.08	210.83
40 05 19 00-4001	EA		12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,329.24	230.14
40 05 19 00-4002	EA		12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,489.94	241.90
40 05 19 00-4003	EA		12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,768.78	268.78
40 05 19 00-4004	EA		14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,710.00	241.90
40 05 19 00-4005	EA		14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,870.69	253.66



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4006	EA			14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,101.91	280.54
40 05 19 00-4007	EA			14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,458.57	294.82
40 05 19 00-4008	EA			16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,218.99	277.60
40 05 19 00-4009	EA			16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,425.66	289.36
40 05 19 00-4010	EA			16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,707.79	316.24
40 05 19 00-4011	EA			16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,014.54	330.10
40 05 19 00-4012	EA			16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,174.23	342.28
40 05 19 00-4013	EA			18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,895.14	327.16
40 05 19 00-4014	EA			18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,175.62	354.04
40 05 19 00-4015	EA			18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,480.73	367.89
40 05 19 00-4016	EA			18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,643.70	380.08
40 05 19 00-4017	EA			18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,983.54	415.77
40 05 19 00-4018	EA			20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,002.41	385.96
40 05 19 00-4019	EA			20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,223.77	412.83
40 05 19 00-4020	EA			20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,425.42	426.69
40 05 19 00-4021	EA			20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,547.33	438.87
40 05 19 00-4022	EA			20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,959.43	474.56
40 05 19 00-4023	EA			20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,221.98	512.36
40 05 19 00-4024	EA			24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,059.92	423.76
40 05 19 00-4025	EA			24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,992.26	450.63
40 05 19 00-4026	EA			24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,116.72	464.49
40 05 19 00-4027	EA			24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,236.99	476.67
40 05 19 00-4028	EA			24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,650.73	512.36
40 05 19 00-4029	EA			24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,965.83	550.16
40 05 19 00-4030	EA			24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,367.16	544.08
40 05 19 00-4031	EA			30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,040.58	581.66
40 05 19 00-4032	EA			30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,084.68	617.36
40 05 19 00-4033	EA			30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	11,818.31	655.16
40 05 19 00-4034	EA			30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,515.02	713.96
40 05 19 00-4035	EA			30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,672.60	751.75
40 05 19 00-4036	EA			36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,151.13	674.06
40 05 19 00-4037	EA			36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,776.62	711.86
40 05 19 00-4038	EA			36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,691.75	770.65
40 05 19 00-4039	EA			36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,202.40	808.45
40 05 19 00-4040	EA			36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,028.47	913.44
40 05 19 00-4041	EA			42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	25,304.98	877.75
40 05 19 00-4042	EA			42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	28,287.06	982.73
40 05 19 00-4043	EA			42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	31,723.14	1,039.43
40 05 19 00-4044	EA			48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	35,504.60	1,119.23
40 05 19 00-4045	EA			48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	39,411.99	1,175.92
40 05 19 00-4046	EA			48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	43,868.92	1,245.22
40 05 19 00-4047				Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges <small>(40 05 19 00-2059)</small>		
40 05 19 00-4048	EA			4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	481.79	54.60
40 05 19 00-4049	EA			6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	733.09	80.63
40 05 19 00-4050	EA			8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	979.34	95.76
40 05 19 00-4051	EA			10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,425.57	111.71
40 05 19 00-4052	EA			12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,890.04	131.04
40 05 19 00-4053	EA			14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	2,605.60	146.99
40 05 19 00-4054	EA			16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	3,148.16	167.99
40 05 19 00-4055	EA			18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	4,236.95	235.18
40 05 19 00-4056	EA			20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	5,689.09	293.98
40 05 19 00-4057	EA			24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	8,343.16	356.97
40 05 19 00-4058	EA			30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	12,097.72	415.77
40 05 19 00-4059	EA			36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	22,699.61	457.77
40 05 19 00-4060	EA			42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	32,554.07	503.96
40 05 19 00-4061	EA			48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	43,402.91	566.96
40 05 19 00-4062				Ductile Iron Bolt Packs <small>(40 05 19)</small>		
Note: Labor installation is included with pipe fittings or valves.						
40 05 19 00-4063	EA			4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	44.25	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.						
For Zinc Plated, Add						
For Hot Dip Galvanized, Add						
40 05 19 00-4064	EA			6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	68.28	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.						
For Zinc Plated, Add						
For Hot Dip Galvanized, Add						
40 05 19 00-4065	EA			8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	74.14	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.						
For Zinc Plated, Add						
For Hot Dip Galvanized, Add						
40 05 19 00-4066	EA			10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	166.53	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.						
For Zinc Plated, Add						
For Hot Dip Galvanized, Add						

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4067	EA		12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	168.00	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	47.04	
			<i>For Hot Dip Galvanized, Add</i>	67.20	
40 05 19 00-4068	EA		14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	188.22	
			Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	52.70	
			<i>For Hot Dip Galvanized, Add</i>	75.29	
40 05 19 00-4069	EA		16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	316.42	
			Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	88.60	
			<i>For Hot Dip Galvanized, Add</i>	126.57	
40 05 19 00-4070	EA		18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	459.67	
			Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	128.71	
			<i>For Hot Dip Galvanized, Add</i>	183.87	
40 05 19 00-4071	EA		20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	580.39	
			Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	162.51	
			<i>For Hot Dip Galvanized, Add</i>	232.16	
40 05 19 00-4072	EA		24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	830.44	
			Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	232.52	
			<i>For Hot Dip Galvanized, Add</i>	332.18	
40 05 19 00-4073	EA		30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,312.22	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	367.42	
			<i>For Hot Dip Galvanized, Add</i>	524.89	
40 05 19 00-4074	EA		36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,871.92	
			Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	524.14	
			<i>For Hot Dip Galvanized, Add</i>	748.77	
40 05 19 00-4075	EA		42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,408.16	
			Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	674.28	
			<i>For Hot Dip Galvanized, Add</i>	963.26	
40 05 19 00-4076	EA		48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,943.31	
			Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
			<i>For Zinc Plated, Add</i>	824.13	
			<i>For Hot Dip Galvanized, Add</i>	1,177.32	
40 05 19 00-4077			Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 <small>(40 05 19)</small>		
			Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-4078			Full Face Flange Styrene Butadiene (SBR) Gaskets <small>(40 05 19 00-4077)</small>		
40 05 19 00-4079	EA		4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.44	
40 05 19 00-4080	EA		6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.74	
40 05 19 00-4081	EA		8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.57	
40 05 19 00-4082	EA		10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	16.87	
40 05 19 00-4083	EA		12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	18.40	
40 05 19 00-4084	EA		14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	30.67	
40 05 19 00-4085	EA		16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	37.58	
40 05 19 00-4086	EA		18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	39.88	
40 05 19 00-4087	EA		20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	61.35	
40 05 19 00-4088	EA		24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	65.95	
40 05 19 00-4089	EA		30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	85.12	
40 05 19 00-4090	EA		36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	97.39	
40 05 19 00-4091	EA		42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	104.29	
40 05 19 00-4092	EA		48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	114.26	
40 05 19 00-4093			Full Face Flange Nitrile Buna-N (NBR) Gaskets <small>(40 05 19 00-4077)</small>		
			Note: (Acrylonitrile Butadiene)		
40 05 19 00-4094	EA		4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	26.07	
40 05 19 00-4095	EA		6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	36.81	
40 05 19 00-4096	EA		8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	56.75	
40 05 19 00-4097	EA		10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	62.11	
40 05 19 00-4098	EA		12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	66.72	
40 05 19 00-4099	EA		14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	125.76	
40 05 19 00-4100	EA		16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	154.90	
40 05 19 00-4101	EA		18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	155.67	
40 05 19 00-4102	EA		20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	161.81	
40 05 19 00-4103	EA		24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	171.01	
40 05 19 00-4104	EA		30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	189.41	
40 05 19 00-4105	EA		36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	208.58	
40 05 19 00-4106	EA		42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	296.77	
40 05 19 00-4107	EA		48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	324.38	
40 05 19 00-4108			Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets <small>(40 05 19 00-4077)</small>		
40 05 19 00-4109	EA		4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	23.01	
40 05 19 00-4110	EA		6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.91	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 05 19 00-4111	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	40.64	
40 05 19 00-4112	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	47.54	
40 05 19 00-4113	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	52.91	
40 05 19 00-4114	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	87.42	
40 05 19 00-4115	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	105.06	
40 05 19 00-4116	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	105.83	
40 05 19 00-4117	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	108.13	
40 05 19 00-4118	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	125.76	
40 05 19 00-4119	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	154.14	
40 05 19 00-4120	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	175.61	
40 05 19 00-4121	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	251.53	
40 05 19 00-4122	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	277.60	

40 05 19 00-4123 Full Face Flange Neoprene Gaskets (40 05 19 00-4077)
 Note: (Polychloroprene)

40 05 19 00-4124	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	26.84	
40 05 19 00-4125	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	37.58	
40 05 19 00-4126	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	57.51	
40 05 19 00-4127	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	62.11	
40 05 19 00-4128	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	66.72	
40 05 19 00-4129	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	88.95	
40 05 19 00-4130	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	156.44	
40 05 19 00-4131	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	157.20	
40 05 19 00-4132	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	166.41	
40 05 19 00-4133	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	168.71	
40 05 19 00-4134	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	183.28	
40 05 19 00-4135	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	206.28	
40 05 19 00-4136	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	299.07	
40 05 19 00-4137	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	327.44	

40 05 19 00-4138 Full Face Flange FKM Gaskets (40 05 19 00-4077)
 Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-4139	EA	4" Full Face Flange FKM Gasket, 1/8" Thick.....	126.38	
40 05 19 00-4140	EA	6" Full Face Flange FKM Gasket, 1/8" Thick.....	188.17	
40 05 19 00-4141	EA	8" Full Face Flange FKM Gasket, 1/8" Thick.....	251.36	
40 05 19 00-4142	EA	10" Full Face Flange FKM Gasket, 1/8" Thick.....	303.32	
40 05 19 00-4143	EA	12" Full Face Flange FKM Gasket, 1/8" Thick.....	394.59	
40 05 19 00-4144	EA	14" Full Face Flange FKM Gasket, 1/8" Thick.....	721.78	
40 05 19 00-4145	EA	16" Full Face Flange FKM Gasket, 1/8" Thick.....	827.10	
40 05 19 00-4146	EA	18" Full Face Flange FKM Gasket, 1/8" Thick.....	866.42	
40 05 19 00-4147	EA	20" Full Face Flange FKM Gasket, 1/8" Thick.....	924.00	
40 05 19 00-4148	EA	24" Full Face Flange FKM Gasket, 1/8" Thick.....	1,277.87	
40 05 19 00-4149	EA	30" Full Face Flange FKM Gasket, 1/8" Thick.....	1,532.04	
40 05 19 00-4150	EA	36" Full Face Flange FKM Gasket, 1/8" Thick.....	1,616.29	
40 05 19 00-4151	EA	42" Full Face Flange FKM Gasket, 1/8" Thick.....	2,015.10	
40 05 19 00-4152	EA	48" Full Face Flange FKM Gasket, 1/8" Thick.....	2,111.99	

40 05 19 00-4153 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)

40 05 19 00-4154	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	399.85	75.82
40 05 19 00-4155	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	554.60	92.57
40 05 19 00-4156	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	820.90	112.89
40 05 19 00-4157	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,127.40	137.72
40 05 19 00-4158	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,431.27	167.93
40 05 19 00-4159	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	2,299.30	204.89
40 05 19 00-4160	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,615.78	250.05
40 05 19 00-4161	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,733.55	304.98
40 05 19 00-4162	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	4,574.18	372.16
40 05 19 00-4163	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	5,096.69	453.94
40 05 19 00-4164	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	6,568.47	553.91
40 05 19 00-4165	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	9,764.48	675.67
40 05 19 00-4166	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	25,452.80	824.41
40 05 19 00-4167	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	32,511.22	1,005.72

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)

40 05 23 23-0001		Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)		
		Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.		
40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	40.62	10.14
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	5.27	
		For Work In Restricted Working Space, Add	6.11	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	45.42	11.62
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	5.52	
		For Work In Restricted Working Space, Add	7.26	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 23 Stainless Steel Process Pipe and Tubing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0004	LF		1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	52.95 6.47	13.11
			<i>For Work In Restricted Working Space, Add</i>	8.42	
40 05 23 23-0005	LF		1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	61.63 8.16	15.83
			<i>For Work In Restricted Working Space, Add</i>	9.07	
40 05 23 23-0006	LF		1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	68.38 9.35	16.29
			<i>For Work In Restricted Working Space, Add</i>	9.73	
40 05 23 23-0007	LF		2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	82.91 11.40	21.52
			<i>For Work In Restricted Working Space, Add</i>	11.72	
40 05 23 23-0008	LF		2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	123.80 19.61	26.53
			<i>For Work In Restricted Working Space, Add</i>	14.52	
40 05 23 23-0009	LF		3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	157.39 25.53	30.75
			<i>For Work In Restricted Working Space, Add</i>	17.76	
40 05 23 23-0010	LF		4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	216.52 22.53	30.75
40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)					
40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)					
40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)					
40 05 23 23-0014	LF		1/4", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	9.15 1.99	3.34
40 05 23 23-0015	LF		3/8", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	10.58 2.39	3.96
40 05 23 23-0016	LF		1/2", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	12.64 2.79	4.70
40 05 23 23-0017	LF		5/8", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	20.81 3.19	5.32
40 05 23 23-0018	LF		3/4", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	24.70 3.59	5.94
40 05 23 23-0019	LF		7/8", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	27.35 3.99	6.68
40 05 23 23-0020	LF		1", 0.035" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	30.50 4.79	8.04
40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)					
40 05 23 23-0022	LF		1/4", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	15.37 2.39	3.96
40 05 23 23-0023	LF		3/8", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	17.10 2.79	4.70
40 05 23 23-0024	LF		1/2", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	20.59 3.19	5.32
40 05 23 23-0025	LF		5/8", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	26.06 3.99	6.68
40 05 23 23-0026	LF		3/4", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	29.77 4.79	8.04
40 05 23 23-0027	LF		7/8", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	33.43 5.58	9.27
40 05 23 23-0028	LF		1", 0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	38.58 6.35	10.52
40 05 23 23-0029 0.065" Wall (40 05 23 23-0012)					
40 05 23 23-0030	LF		1/4", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	17.93 2.79	4.70
40 05 23 23-0031	LF		3/8", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	20.65 3.19	5.32
40 05 23 23-0032	LF		1/2", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	25.45 3.99	6.68
40 05 23 23-0033	LF		5/8", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	29.88 4.79	8.04
40 05 23 23-0034	LF		3/4", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	35.26 5.58	9.27
40 05 23 23-0035	LF		7/8", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	40.53 6.35	10.52
40 05 23 23-0036	LF		1", 0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	45.68 7.14	11.88



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0037	Type 304 Tube Fittings <small>(40 05 23 23-0011)</small>			
40 05 23 23-0038	90 Degree Elbows <small>(40 05 23 23-0037)</small>			
40 05 23 23-0039	EA 1/4", Type 304, Stainless Steel, 90 Degree Elbow	58.11	13.37	
	<i>For Work In Restricted Working Space, Add</i>	7.98		
40 05 23 23-0040	EA 3/8", Type 304, Stainless Steel, 90 Degree Elbow	68.83	14.60	
	<i>For Work In Restricted Working Space, Add</i>	8.74		
40 05 23 23-0041	EA 1/2", Type 304, Stainless Steel, 90 Degree Elbow	104.21	16.46	
	<i>For Work In Restricted Working Space, Add</i>	9.90		
40 05 23 23-0042	EA 5/8", Type 304, Stainless Steel, 90 Degree Elbow	111.23	18.44	
	<i>For Work In Restricted Working Space, Add</i>	11.08		
40 05 23 23-0043	EA 3/4", Type 304, Stainless Steel, 90 Degree Elbow	124.47	19.92	
	<i>For Work In Restricted Working Space, Add</i>	11.97		
40 05 23 23-0044	EA 7/8", Type 304, Stainless Steel, 90 Degree Elbow	170.51	22.15	
	<i>For Work In Restricted Working Space, Add</i>	13.26		
40 05 23 23-0045	EA 1", Type 304, Stainless Steel, 90 Degree Elbow	217.31	26.36	
	<i>For Work In Restricted Working Space, Add</i>	15.80		
40 05 23 23-0046	Union Tees <small>(40 05 23 23-0037)</small>			
40 05 23 23-0047	EA 1/4", Type 304, Stainless Steel, Union Tee	92.29	19.92	
	<i>For Work In Restricted Working Space, Add</i>	11.97		
40 05 23 23-0048	EA 3/8", Type 304, Stainless Steel, Union Tee	112.14	22.15	
	<i>For Work In Restricted Working Space, Add</i>	13.26		
40 05 23 23-0049	EA 1/2", Type 304, Stainless Steel, Union Tee	153.73	24.74	
	<i>For Work In Restricted Working Space, Add</i>	14.85		
40 05 23 23-0050	EA 5/8", Type 304, Stainless Steel, Union Tee	165.27	28.09	
	<i>For Work In Restricted Working Space, Add</i>	16.87		
40 05 23 23-0051	EA 3/4", Type 304, Stainless Steel, Union Tee	211.66	30.19	
	<i>For Work In Restricted Working Space, Add</i>	18.11		
40 05 23 23-0052	EA 7/8", Type 304, Stainless Steel, Union Tee	337.67	33.41	
	<i>For Work In Restricted Working Space, Add</i>	20.06		
40 05 23 23-0053	EA 1", Type 304, Stainless Steel, Union Tee	404.70	39.97	
	<i>For Work In Restricted Working Space, Add</i>	23.95		
40 05 23 23-0054	Unions <small>(40 05 23 23-0037)</small>			
40 05 23 23-0055	EA 1/4", Type 304, Stainless Steel, Union	88.12	19.92	
	<i>For Work In Restricted Working Space, Add</i>	11.97		
40 05 23 23-0056	EA 3/8", Type 304, Stainless Steel, Union	114.49	22.15	
	<i>For Work In Restricted Working Space, Add</i>	13.26		
40 05 23 23-0057	EA 1/2", Type 304, Stainless Steel, Union	155.27	24.74	
	<i>For Work In Restricted Working Space, Add</i>	14.85		
40 05 23 23-0058	EA 5/8", Type 304, Stainless Steel, Union	189.48	28.09	
	<i>For Work In Restricted Working Space, Add</i>	16.87		
40 05 23 23-0059	EA 3/4", Type 304, Stainless Steel, Union	226.39	30.19	
	<i>For Work In Restricted Working Space, Add</i>	18.11		
40 05 23 23-0060	EA 7/8", Type 304, Stainless Steel, Union	349.42	33.41	
	<i>For Work In Restricted Working Space, Add</i>	20.06		
40 05 23 23-0061	EA 1", Type 304, Stainless Steel, Union	371.40	39.97	
	<i>For Work In Restricted Working Space, Add</i>	23.95		
40 05 23 23-0062	Male Connectors <small>(40 05 23 23-0037)</small>			
40 05 23 23-0063	EA 1/4" x 1/4", Type 304, Stainless Steel, Male Connection	43.19	13.37	
	<i>For Work In Restricted Working Space, Add</i>	7.98		
40 05 23 23-0064	EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection	54.16	14.60	
	<i>For Work In Restricted Working Space, Add</i>	8.74		
40 05 23 23-0065	EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection	70.47	16.46	
	<i>For Work In Restricted Working Space, Add</i>	9.90		
40 05 23 23-0066	EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304	79.42	18.44	
	<i>For Work In Restricted Working Space, Add</i>	11.08		
40 05 23 23-0067	EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection	96.20	19.92	
	<i>For Work In Restricted Working Space, Add</i>	11.97		
40 05 23 23-0068	EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection	145.72	22.15	
	<i>For Work In Restricted Working Space, Add</i>	13.26		
40 05 23 23-0069	EA 1" x 1", Type 304, Stainless Steel, Male Connection	152.28	26.36	
	<i>For Work In Restricted Working Space, Add</i>	15.80		
40 05 23 23-0070	Type 304 Valves <small>(40 05 23 23-0011)</small>			
40 05 23 23-0071	Gate Valves <small>(40 05 23 23-0070)</small>			
40 05 23 23-0072	EA 1/4" Gate Valve, Stainless Steel Type 304	233.39	19.92	
	<i>For Work In Restricted Working Space, Add</i>	10.81		
40 05 23 23-0073	EA 3/8" Gate Valve, Stainless Steel Type 304	393.80	23.39	
	<i>For Work In Restricted Working Space, Add</i>	11.38		
40 05 23 23-0074	EA 1/2" Gate Valve, Stainless Steel Type 304	408.52	26.36	
	<i>For Work In Restricted Working Space, Add</i>	15.80		
40 05 23 23-0075	EA 3/4" Gate Valve, Stainless Steel Type 304	452.81	30.19	
	<i>For Work In Restricted Working Space, Add</i>	18.11		
40 05 23 23-0076	EA 1" Gate Valve, Stainless Steel Type 304	415.10	39.97	
	<i>For Work In Restricted Working Space, Add</i>	23.95		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)					
40 05 23 23-0078	EA		1/4" Globe Valve, Stainless Steel Type 304	236.62	19.92
			<i>For Work In Restricted Working Space, Add</i>	10.81	
40 05 23 23-0079	EA		3/8" Globe Valve, Stainless Steel Type 304	155.99	23.39
			<i>For Work In Restricted Working Space, Add</i>	11.38	
40 05 23 23-0080	EA		1/2" Globe Valve, Stainless Steel Type 304	280.61	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23 23-0081	EA		3/4" Globe Valve, Stainless Steel Type 304	312.33	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23 23-0082	EA		1" Globe Valve, Stainless Steel Type 304	455.81	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-0083 Check Valves (40 05 23 23-0070)					
40 05 23 23-0084	EA		1/4" Check Valve, Stainless Steel Type 304	331.65	19.92
			<i>For Work In Restricted Working Space, Add</i>	10.81	
40 05 23 23-0085	EA		3/8" Check Valve, Stainless Steel Type 304	333.55	23.39
			<i>For Work In Restricted Working Space, Add</i>	11.38	
40 05 23 23-0086	EA		1/2" Check Valve, Stainless Steel Type 304	217.89	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23 23-0087	EA		3/4" Check Valve, Stainless Steel Type 304	227.99	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23 23-0088	EA		1" Check Valve, Stainless Steel Type 304	252.25	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)					
40 05 23 23-0090	EA		1/2" Plug Valve, Stainless Steel Type 304	513.04	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23 23-0091	EA		3/4" Plug Valve, Stainless Steel Type 304	561.66	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23 23-0092	EA		1" Plug Valve, Stainless Steel Type 304	635.69	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-0093	EA		1-1/2" Plug Valve, Stainless Steel Type 304	883.38	45.16
			<i>For Work In Restricted Working Space, Add</i>	27.09	
40 05 23 23-0094	EA		2" Plug Valve, Stainless Steel Type 304	1,150.20	61.86
			<i>For Work In Restricted Working Space, Add</i>	37.12	
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)					
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)					
40 05 23 23-0097	LF		1/4" Stainless Steel Tubing, Type 316, 0.035" Wall	9.53	3.34
			<i>For Work In Restricted Working Space, Add</i>	1.99	
40 05 23 23-0098	LF		3/8" Stainless Steel Tubing, Type 316, 0.035" Wall	12.44	3.96
			<i>For Work In Restricted Working Space, Add</i>	2.39	
40 05 23 23-0099	LF		1/2" Stainless Steel Tubing, Type 316, 0.035" Wall	13.78	4.70
			<i>For Work In Restricted Working Space, Add</i>	2.79	
40 05 23 23-0100	LF		5/8" Stainless Steel Tubing, Type 316, 0.035" Wall	23.82	5.32
			<i>For Work In Restricted Working Space, Add</i>	3.19	
40 05 23 23-0101	LF		3/4" Stainless Steel Tubing, Type 316, 0.035" Wall	27.04	5.94
			<i>For Work In Restricted Working Space, Add</i>	3.59	
40 05 23 23-0102	LF		7/8" Stainless Steel Tubing, Type 316, 0.035" Wall	34.53	6.68
			<i>For Work In Restricted Working Space, Add</i>	3.99	
40 05 23 23-0103	LF		1" Stainless Steel Tubing, Type 316, 0.035" Wall	36.06	8.04
			<i>For Work In Restricted Working Space, Add</i>	4.79	
40 05 23 23-0104 0.049" Wall (40 05 23 23-0095)					
40 05 23 23-0105	LF		1/4" Stainless Steel Tubing, Type 316, 0.049" Wall	16.98	3.96
			<i>For Work In Restricted Working Space, Add</i>	2.39	
40 05 23 23-0106	LF		3/8" Stainless Steel Tubing, Type 316, 0.049" Wall	18.79	4.70
			<i>For Work In Restricted Working Space, Add</i>	2.79	
40 05 23 23-0107	LF		1/2" Stainless Steel Tubing, Type 316, 0.049" Wall	22.17	5.32
			<i>For Work In Restricted Working Space, Add</i>	3.19	
40 05 23 23-0108	LF		5/8" Stainless Steel Tubing, Type 316, 0.049" Wall	28.99	6.68
			<i>For Work In Restricted Working Space, Add</i>	3.99	
40 05 23 23-0109	LF		3/4" Stainless Steel Tubing, Type 316, 0.049" Wall	33.41	8.04
			<i>For Work In Restricted Working Space, Add</i>	4.79	
40 05 23 23-0110	LF		7/8" Stainless Steel Tubing, Type 316, 0.049" Wall	42.78	9.27
			<i>For Work In Restricted Working Space, Add</i>	5.58	
40 05 23 23-0111	LF		1" Stainless Steel Tubing, Type 316, 0.049" Wall	43.49	10.52
			<i>For Work In Restricted Working Space, Add</i>	6.35	
40 05 23 23-0112 0.065" Wall (40 05 23 23-0095)					
40 05 23 23-0113	LF		1/4" Stainless Steel Tubing, Type 316, 0.065" Wall	19.85	4.70
			<i>For Work In Restricted Working Space, Add</i>	2.79	
40 05 23 23-0114	LF		3/8" Stainless Steel Tubing, Type 316, 0.065" Wall	22.11	5.32
			<i>For Work In Restricted Working Space, Add</i>	3.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall.....	27.75	6.68
<i>For Work In Restricted Working Space, Add</i>	3.99	
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall.....	33.05	8.04
<i>For Work In Restricted Working Space, Add</i>	4.79	
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall.....	40.12	9.27
<i>For Work In Restricted Working Space, Add</i>	5.58	
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall.....	44.14	10.52
<i>For Work In Restricted Working Space, Add</i>	6.35	
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall.....	51.49	11.88
<i>For Work In Restricted Working Space, Add</i>	7.14	
40 05 23 23-0120 Type 316 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0121 90 Degree Elbows <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316.....	80.84	13.37
<i>For Work In Restricted Working Space, Add</i>	7.98	
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316.....	97.50	14.60
<i>For Work In Restricted Working Space, Add</i>	8.74	
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316.....	155.61	16.46
<i>For Work In Restricted Working Space, Add</i>	9.90	
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316.....	164.86	18.44
<i>For Work In Restricted Working Space, Add</i>	11.08	
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316.....	185.51	19.92
<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316.....	261.71	22.15
<i>For Work In Restricted Working Space, Add</i>	13.26	
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316.....	336.20	26.36
<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23 23-0129 Union Tees <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316.....	130.10	19.92
<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316.....	161.20	22.15
<i>For Work In Restricted Working Space, Add</i>	13.26	
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316.....	228.99	24.74
<i>For Work In Restricted Working Space, Add</i>	14.85	
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316.....	243.99	28.09
<i>For Work In Restricted Working Space, Add</i>	16.87	
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316.....	320.91	30.19
<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316.....	533.17	33.41
<i>For Work In Restricted Working Space, Add</i>	20.06	
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316.....	639.25	39.97
<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-0137 Unions <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316.....	82.35	19.92
<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316.....	106.09	22.15
<i>For Work In Restricted Working Space, Add</i>	13.26	
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316.....	142.63	24.74
<i>For Work In Restricted Working Space, Add</i>	14.85	
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316.....	173.55	28.09
<i>For Work In Restricted Working Space, Add</i>	16.87	
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316.....	206.54	30.19
<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316.....	315.65	33.41
<i>For Work In Restricted Working Space, Add</i>	20.06	
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316.....	336.54	39.97
<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-0145 Male Connectors <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	54.91	13.37
<i>For Work In Restricted Working Space, Add</i>	7.98	
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	71.86	14.60
<i>For Work In Restricted Working Space, Add</i>	8.74	
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	96.96	16.46
<i>For Work In Restricted Working Space, Add</i>	9.90	
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	109.45	18.44
<i>For Work In Restricted Working Space, Add</i>	11.08	
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	136.00	19.92
<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	217.50	22.15
<i>For Work In Restricted Working Space, Add</i>	13.26	
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	222.72	26.36
<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23 23-0153 Type 316 Valves <small>(40 05 23 23-0011)</small>		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0154		Gate Valves <small>(40 05 23 23-0153)</small>		
40 05 23	23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	297.11	19.92
			<i>For Work In Restricted Working Space, Add</i>	10.81	
40 05 23	23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	508.70	23.39
			<i>For Work In Restricted Working Space, Add</i>	11.38	
40 05 23	23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	523.42	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23	23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	579.53	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23	23-0159	EA	1" Gate Valve, Stainless Steel Type 316	523.35	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23	23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	720.33	41.45
			<i>For Work In Restricted Working Space, Add</i>	24.87	
40 05 23	23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	1,159.53	45.16
			<i>For Work In Restricted Working Space, Add</i>	27.09	
40 05 23	23-0162	EA	2" Gate Valve, Stainless Steel Type 316	1,378.28	61.86
			<i>For Work In Restricted Working Space, Add</i>	37.12	
40 05 23	23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	2,035.51	198.08
			<i>For Work In Restricted Working Space, Add</i>	118.81	
40 05 23	23-0164		Globe Valves <small>(40 05 23 23-0153)</small>		
40 05 23	23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	301.39	19.92
			<i>For Work In Restricted Working Space, Add</i>	10.81	
40 05 23	23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	194.12	23.39
			<i>For Work In Restricted Working Space, Add</i>	11.38	
40 05 23	23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	354.22	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23	23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	393.69	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23	23-0169	EA	1" Globe Valve, Stainless Steel Type 316	577.20	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23	23-0170	EA	1-1/4" Globe Valve, Stainless Steel Type 316	721.78	41.20
			<i>For Work In Restricted Working Space, Add</i>	24.68	
40 05 23	23-0171	EA	1-1/2" Globe Valve, Stainless Steel Type 316	1,202.30	45.16
			<i>For Work In Restricted Working Space, Add</i>	27.09	
40 05 23	23-0172	EA	2" Globe Valve, Stainless Steel Type 316	1,421.05	61.86
			<i>For Work In Restricted Working Space, Add</i>	37.12	
40 05 23	23-0173	EA	2-1/2" Globe Valve, Stainless Steel Type 316	1,764.64	198.08
			<i>For Work In Restricted Working Space, Add</i>	118.81	
40 05 23	23-0174		Check Valves <small>(40 05 23 23-0153)</small>		
40 05 23	23-0175	EA	1/4" Check Valve, Stainless Steel Type 316	427.09	19.92
			<i>For Work In Restricted Working Space, Add</i>	10.81	
40 05 23	23-0176	EA	3/8" Check Valve, Stainless Steel Type 316	428.99	23.39
			<i>For Work In Restricted Working Space, Add</i>	11.38	
40 05 23	23-0177	EA	1/2" Check Valve, Stainless Steel Type 316	271.25	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23	23-0178	EA	3/4" Check Valve, Stainless Steel Type 316	282.11	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23	23-0179	EA	1" Check Valve, Stainless Steel Type 316	307.92	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23	23-0180	EA	1-1/4" Check Valve, Stainless Steel Type 316	427.61	41.45
			<i>For Work In Restricted Working Space, Add</i>	24.87	
40 05 23	23-0181	EA	1-1/2" Check Valve, Stainless Steel Type 316	959.94	45.16
			<i>For Work In Restricted Working Space, Add</i>	27.09	
40 05 23	23-0182	EA	2" Check Valve, Stainless Steel Type 316	1,164.44	61.86
			<i>For Work In Restricted Working Space, Add</i>	37.12	
40 05 23	23-0183	EA	2-1/2" Check Valve, Stainless Steel Type 316	2,296.87	198.08
			<i>For Work In Restricted Working Space, Add</i>	118.81	
40 05 23	23-0184		Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 23-0153)</small>		
40 05 23	23-0185	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	457.93	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23	23-0186	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	535.02	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	
40 05 23	23-0187	EA	1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	682.18	39.97
			<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23	23-0188	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,089.62	45.16
			<i>For Work In Restricted Working Space, Add</i>	27.09	
40 05 23	23-0189	EA	2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,522.77	61.86
			<i>For Work In Restricted Working Space, Add</i>	37.12	
40 05 23	23-0190		Diaphragm Valves, Teflon Lined <small>(40 05 23 23-0153)</small>		
40 05 23	23-0191	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	607.82	26.36
			<i>For Work In Restricted Working Space, Add</i>	15.80	
40 05 23	23-0192	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	698.80	30.19
			<i>For Work In Restricted Working Space, Add</i>	18.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	845.96 23.95	39.97
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,320.01 27.09	45.16
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,797.57 37.12	61.86
40 05 23 23-0196 Strainers <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	609.27 15.80	26.36
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	729.32 18.19	30.31
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	954.17 24.13	40.21
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,186.06 24.87	41.45
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,489.72 27.10	45.16
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,148.85 37.12	61.86
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,953.51 49.37	82.28
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	4,300.55 74.24	123.73
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	5,498.89 118.77	197.95
40 05 23 23-0206 Plug Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	649.50 15.80	26.36
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	710.25 18.11	30.19
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	800.46 23.95	39.97
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,118.46 27.09	45.16
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,454.46 37.12	61.86
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place <small>(40 05 23 23-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	24.73	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	26.71	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	30.05	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	31.53	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	33.38	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	35.85	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	38.34	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	42.04	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	45.75	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	49.46	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	53.17	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	58.12	
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe.....	63.07	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe.....	68.00	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe.....	72.95	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe.....	76.67	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe.....	80.37	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe.....	85.32	
40 05 23 23-0231 Stainless Steel Pipe And Fittings <small>(40 05 23 23)</small>		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
<small>(40 05 23 23-0231)</small>		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0232)</small>		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	20.59 3.19	5.32
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	25.29 3.99	6.68
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	31.18 4.79	8.04
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	37.63 5.58	9.27
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	43.64 6.35	10.52
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	55.87 7.98	13.37
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	76.89 9.52	15.84

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0241	LF	3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	96.65 11.97	19.92
40 05 23	23-0242	LF	4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	131.19 15.80	26.36
40 05 23	23-0243		150#, Type 304 Stainless Steel Threaded 90 Degree Elbows <small>(40 05 23 23-0232)</small>		
40 05 23	23-0244	EA	1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	43.24 11.97	19.92
40 05 23	23-0245	EA	3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	57.41 15.80	26.36
40 05 23	23-0246	EA	1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	73.82 20.06	33.41
40 05 23	23-0247	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	103.50 27.50	45.78
40 05 23	23-0248	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	123.36 32.27	53.82
40 05 23	23-0249	EA	2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	150.26 39.07	65.08
40 05 23	23-0250	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	251.83 61.86	103.06
40 05 23	23-0251	EA	3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	324.19 79.82	133.00
40 05 23	23-0252	EA	4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	443.33 98.98	164.93
40 05 23	23-0253		150#, Type 304 Stainless Steel Threaded 45 Degree Elbows <small>(40 05 23 23-0232)</small>		
40 05 23	23-0254	EA	1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.01 11.97	19.92
40 05 23	23-0255	EA	3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	58.65 15.80	26.36
40 05 23	23-0256	EA	1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	74.21 20.06	33.41
40 05 23	23-0257	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	103.35 27.50	45.78
40 05 23	23-0258	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	121.53 32.27	53.82
40 05 23	23-0259	EA	2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	149.84 39.07	65.08
40 05 23	23-0260	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	260.14 61.86	103.06
40 05 23	23-0261	EA	3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	340.40 79.82	133.00
40 05 23	23-0262	EA	4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	462.21 98.98	164.93
40 05 23	23-0263		150#, Type 304 Stainless Steel Threaded Tees <small>(40 05 23 23-0232)</small>		
40 05 23	23-0264	EA	1/2", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	64.88 18.11	30.19
40 05 23	23-0265	EA	3/4", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	87.00 23.95	39.97
40 05 23	23-0266	EA	1", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	108.12 29.69	49.49
40 05 23	23-0267	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	155.65 41.24	68.79
40 05 23	23-0268	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	177.25 46.40	77.33
40 05 23	23-0269	EA	2", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	235.23 61.86	103.06
40 05 23	23-0270	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	360.37 89.44	149.09
40 05 23	23-0271	EA	3", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	488.79 119.73	199.57
40 05 23	23-0272	EA	4", 150#, Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	656.87 148.47	247.45
40 05 23	23-0273		150#, Type 304 Stainless Steel Threaded Reducers <small>(40 05 23 23-0232)</small>		
40 05 23	23-0274	EA	3/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	56.84 15.80	26.36
40 05 23	23-0275	EA	1", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	72.60 20.06	33.41
40 05 23	23-0276	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	100.02 27.50	45.78
40 05 23	23-0277	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	119.63 32.27	53.82
40 05 23	23-0278	EA	2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	150.35 39.07	65.08
40 05 23	23-0279	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	249.37 61.86	103.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	327.55 79.82	133.00
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	431.73 98.98	164.93
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	22.17 5.99	10.02
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	29.39 7.98	13.37
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	37.16 9.90	16.46
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	54.22 14.00	23.39
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	62.54 15.80	26.36
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	79.48 20.06	33.41
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	121.73 29.69	49.49
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	161.67 39.07	65.08
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	218.17 49.49	82.52
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	69.70 18.11	30.19
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	91.67 23.95	39.97
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	116.88 29.69	49.49
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	168.52 41.24	68.79
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	189.74 46.40	77.33
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	248.24 61.86	103.06
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	423.15 92.79	154.65
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	542.48 119.74	199.57
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	562.66 98.99	164.99
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	42.92 11.97	19.92
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	56.99 15.80	26.36
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	73.48 20.06	33.41
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	102.14 27.50	45.78
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	120.03 32.27	53.82
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	147.79 39.07	65.08
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	244.74 61.86	103.06
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	315.89 79.82	133.00
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	407.32 98.98	164.93
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings (40 05 23 23-0231)		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0312)		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	25.86 3.19	5.32
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	30.49 3.99	6.68
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	38.65 4.79	8.04
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	47.40 5.68	9.27
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	55.21 6.35	10.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0319	LF	2"	Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	71.36 7.98	13.37
40 05 23 23-0320	LF	2-1/2"	Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	98.53 9.52	15.84
40 05 23 23-0321	LF	3"	Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	128.93 11.97	19.92
40 05 23 23-0322	LF	4"	Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	173.21 15.80	26.36
40 05 23 23-0323			150#, Type 316 Stainless Steel Threaded 90 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0324	EA	1/2"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.25 11.97	19.92
40 05 23 23-0325	EA	3/4"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	58.91 15.80	26.36
40 05 23 23-0326	EA	1"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	74.74 20.06	33.41
40 05 23 23-0327	EA	1-1/4"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	105.15 27.50	45.78
40 05 23 23-0328	EA	1-1/2"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	125.56 32.27	53.82
40 05 23 23-0329	EA	2"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	152.98 39.07	65.08
40 05 23 23-0330	EA	2-1/2"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	256.17 61.86	103.06
40 05 23 23-0331	EA	3"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	334.81 79.82	133.00
40 05 23 23-0332	EA	4"	, 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	456.23 98.98	164.93
40 05 23 23-0333			150#, Type 316 Stainless Steel Threaded 45 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0334	EA	1/2"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	45.06 11.97	19.92
40 05 23 23-0335	EA	3/4"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.42 15.80	26.36
40 05 23 23-0336	EA	1"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	75.34 20.06	33.41
40 05 23 23-0337	EA	1-1/4"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	104.98 27.50	45.78
40 05 23 23-0338	EA	1-1/2"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	123.43 32.27	53.82
40 05 23 23-0339	EA	2"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	152.38 39.07	65.08
40 05 23 23-0340	EA	2-1/2"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	264.22 61.86	103.06
40 05 23 23-0341	EA	3"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	349.80 79.82	133.00
40 05 23 23-0342	EA	4"	, 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	487.56 98.98	164.93
40 05 23 23-0343			150#, Type 316 Stainless Steel Threaded Tees <small>(40 05 23 23-0312)</small>		
40 05 23 23-0344	EA	1/2"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	65.95 18.11	30.19
40 05 23 23-0345	EA	3/4"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	88.09 23.95	39.97
40 05 23 23-0346	EA	1"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	109.34 29.69	49.49
40 05 23 23-0347	EA	1-1/4"	, 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	158.12 41.24	68.79
40 05 23 23-0348	EA	1-1/2"	, 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	179.70 46.40	77.33
40 05 23 23-0349	EA	2"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	238.46 61.86	103.06
40 05 23 23-0350	EA	2-1/2"	, 150#, Type 316 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	373.54 89.44	149.09
40 05 23 23-0351	EA	3"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	506.75 119.73	199.57
40 05 23 23-0352	EA	4"	, 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	670.26 148.47	247.45
40 05 23 23-0353			150#, Type 316 Stainless Steel Threaded Reducers <small>(40 05 23 23-0312)</small>		
40 05 23 23-0354	EA	3/4"	, 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	57.75 15.80	26.36
40 05 23 23-0355	EA	1"	, 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	75.32 20.06	33.41
40 05 23 23-0356	EA	1-1/4"	, 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	100.53 27.50	45.78
40 05 23 23-0357	EA	1-1/2"	, 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	122.30 32.27	53.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	155.03 39.07	65.08
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	260.01 61.86	103.06
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	339.29 79.82	133.00
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	451.32 98.98	164.93
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	22.77 5.99	10.02
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	29.83 7.98	13.37
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	37.96 9.90	16.46
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	56.42 14.00	23.39
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	65.14 15.80	26.36
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	82.88 20.06	33.41
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	127.34 29.69	49.49
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	167.37 39.07	65.08
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	229.49 49.49	82.52
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	70.99 18.11	30.19
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	96.52 23.95	39.97
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	119.33 29.69	49.49
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	172.69 41.24	68.79
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	194.61 46.40	77.33
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	253.88 61.86	103.06
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	431.80 92.79	154.65
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	569.44 119.74	199.57
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	620.11 98.99	164.99
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	44.95 11.97	19.92
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	57.93 15.80	26.36
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	74.38 20.06	33.41
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	103.57 27.50	45.78
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	121.74 32.27	53.82
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	150.16 39.07	65.08
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	253.03 61.86	103.06
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	326.56 79.82	133.00
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	423.34 98.98	164.93
40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.30 3.12	5.20
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	27.64 3.81	6.35
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	37.14 4.47	7.51

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0397	LF		1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.23 5.59	9.36
40 05 23 23-0398	LF		1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	50.24 6.30	10.51
40 05 23 23-0399	LF		2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	62.13 7.81	13.06
40 05 23 23-0400	LF		2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	74.65 8.92	14.90
40 05 23 23-0401	LF		3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	88.53 10.04	16.74
40 05 23 23-0402	LF		4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	111.85 11.89	19.87
40 05 23 23-0403	LF		6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	164.78 15.61	26.10
40 05 23 23-0404	LF		8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	270.21 29.27	45.55
40 05 23 23-0405	LF		10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	350.43 32.20	50.08
40 05 23 23-0406	LF		12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	422.26 35.78	55.69
40 05 23 23-0407	LF		14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	523.35 40.25	62.61
40 05 23 23-0408	LF		16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	574.54 46.00	71.55
40 05 23 23-0409	LF		18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	641.53 53.66	83.48
40 05 23 23-0410	LF		20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	901.03 64.39	100.16
40 05 23 23-0411	LF		24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	1,178.65 80.49	125.20
40 05 23 23-0412			Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0413	EA		1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	136.85 39.50	59.25
40 05 23 23-0414	EA		3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	144.95 41.93	62.89
40 05 23 23-0415	EA		1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	159.71 46.08	69.12
40 05 23 23-0416	EA		1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	174.29 50.22	75.33
40 05 23 23-0417	EA		1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	192.50 55.46	83.19
40 05 23 23-0418	EA		2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.13 61.70	92.55
40 05 23 23-0419	EA		2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	279.41 78.97	118.45
40 05 23 23-0420	EA		3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	327.73 92.55	138.82
40 05 23 23-0421	EA		4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	400.71 110.78	166.16
40 05 23 23-0422	EA		6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	545.57 138.38	207.57
40 05 23 23-0423	EA		8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	921.28 229.97	344.96
40 05 23 23-0424	EA		10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,353.96 306.63	459.95
40 05 23 23-0425	EA		12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,044.46 459.95	689.93
40 05 23 23-0426	EA		14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,416.24 536.61	804.91
40 05 23 23-0427	EA		16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,835.05 612.11	918.15
40 05 23 23-0428	EA		18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,581.89 766.58	1,149.88
40 05 23 23-0429	EA		20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,994.55 1,073.22	1,609.83
40 05 23 23-0430	EA		24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,168.65 1,533.17	2,299.75
40 05 23 23-0431			Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432	EA		1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	138.38 39.50	59.25
40 05 23 23-0433	EA		3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.48 41.93	62.89
40 05 23 23-0434	EA		1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	161.54 46.08	69.12
40 05 23 23-0435	EA		1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	176.73 50.22	75.33
40 05 23 23-0436	EA		1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	192.80 55.46	83.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.13 61.70	92.55
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	277.88 78.97	118.45
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	324.98 92.55	138.82
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	395.52 110.78	166.16
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	518.39 138.38	207.57
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	868.84 229.97	344.96
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,260.61 306.63	459.95
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,896.67 459.95	689.93
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,234.84 536.61	804.91
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,611.17 612.11	918.15
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,287.89 766.58	1,149.88
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,597.84 1,073.22	1,609.83
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,605.90 1,533.17	2,299.75
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee <small>(40 05 23 23-0392)</small>		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	184.15 50.21	75.31
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	222.24 61.63	92.45
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	247.62 69.25	103.88
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	281.88 78.97	118.45
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	299.35 84.77	127.15
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	326.20 92.45	138.68
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	420.10 110.78	166.16
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	495.75 138.83	208.25
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	568.83 155.81	233.71
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	824.11 207.74	311.61
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,332.52 306.63	459.95
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,044.46 459.95	689.93
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,626.66 574.94	862.40
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,229.05 690.91	1,036.37
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,912.23 842.84	1,264.26
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,978.25 1,073.22	1,609.83
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,654.35 1,412.13	2,118.20
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,979.65 2,146.43	3,219.65
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees <small>(40 05 23 23-0392)</small>		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	169.74 41.94	62.92
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	201.25 51.40	77.10
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	247.15 57.75	86.63
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	257.03 65.84	98.75
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	269.72 70.75	106.11
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	348.92 77.10	115.64
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	411.28 92.41	138.62
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	507.18 115.50	173.25

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	665.33 131.98	197.96
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,235.21 191.65	287.46
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,028.39 255.53	383.29
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,900.58 383.29	574.94
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,518.58 460.48	690.72
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,356.62 561.70	842.55
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,624.58 715.48	1,073.22
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,989.51 941.42	1,412.12
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	12,492.44 1,429.69	2,144.53
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	137.53 38.15	57.22
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	151.38 41.57	62.34
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.82 46.08	69.12
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	178.70 50.22	75.33
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	194.94 55.46	83.19
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	260.93 69.30	103.95
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	295.06 78.90	118.35
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	344.89 92.45	138.68
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	444.86 117.70	176.55
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	697.65 183.98	275.97
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	886.98 229.97	344.96
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,192.65 306.63	459.95
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,696.22 402.46	603.68
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,982.07 458.64	687.95
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,441.28 574.94	862.40
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,422.29 766.58	1,149.88
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,940.12 1,149.88	1,724.81
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	166.25 38.15	57.22
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	172.45 41.57	62.34
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	182.25 46.08	69.12
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.97 50.22	75.33
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	213.88 55.46	83.19
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	281.70 69.30	103.95
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	315.52 78.90	118.35
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	360.71 92.45	138.68
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	501.98 117.70	176.55
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	820.08 183.98	275.97
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,125.80 229.97	344.96
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,413.33 306.63	459.95
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,205.30 402.46	603.68
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,565.39 458.64	687.95



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,153.20 574.94	862.40
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,563.11 766.58	1,149.88
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,452.05 1,149.88	1,724.81
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	75.31 19.75	29.63
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	82.71 20.96	31.44
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	90.84 23.04	34.55
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	100.04 25.11	37.67
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	107.41 27.73	41.59
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	115.96 30.85	46.27
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	150.56 39.49	59.23
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	170.44 46.28	69.42
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	205.41 55.39	83.08
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	264.90 69.30	103.95
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	444.32 114.99	172.48
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	591.69 153.32	229.98
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	871.65 229.97	344.95
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,023.12 268.31	402.46
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,186.25 306.05	459.08
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,498.24 383.29	574.94
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,069.19 536.61	804.91
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,049.51 766.58	1,149.87
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	26.48 3.12	5.20
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	32.13 3.81	6.35
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	39.56 4.47	7.51
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	49.46 5.59	9.24
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	57.11 6.30	10.39
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	73.45 7.81	13.28
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	91.92 8.92	15.01
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	88.22 10.04	16.74
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	150.34 11.89	19.63
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	237.01 15.61	25.99
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	414.67 29.27	45.31
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	530.12 32.20	50.08
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	665.37 35.78	55.45
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	138.07 39.50	59.25
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	146.17 41.93	62.89

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0559	EA	1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.62 46.08	69.12
40 05 23	23-0560	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	174.95 50.22	75.33
40 05 23	23-0561	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	193.11 55.46	83.19
40 05 23	23-0562	EA	2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	217.27 61.70	92.55
40 05 23	23-0563	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	287.35 78.97	118.45
40 05 23	23-0564	EA	3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	339.34 92.55	138.82
40 05 23	23-0565	EA	4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	420.26 110.78	166.16
40 05 23	23-0566	EA	6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	670.49 138.38	207.57
40 05 23	23-0567	EA	8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,091.50 229.97	344.96
40 05 23	23-0568	EA	10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,699.33 306.63	459.95
40 05 23	23-0569	EA	12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,492.41 459.95	689.93
40 05 23	23-0570	EA	14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,959.67 536.61	804.91
40 05 23	23-0571	EA	16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,533.16 612.11	918.15
40 05 23	23-0572	EA	18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,551.90 766.58	1,149.88
40 05 23	23-0573	EA	20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,191.81 1,073.22	1,609.83
40 05 23	23-0574	EA	24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	8,876.74 1,533.17	2,299.75
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0541)					
40 05 23	23-0576	EA	1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	140.21 39.50	59.25
40 05 23	23-0577	EA	3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	148.31 41.93	62.89
40 05 23	23-0578	EA	1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.15 46.08	69.12
40 05 23	23-0579	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	176.51 50.22	75.33
40 05 23	23-0580	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	194.63 55.46	83.19
40 05 23	23-0581	EA	2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	217.59 61.70	92.55
40 05 23	23-0582	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	287.35 78.97	118.45
40 05 23	23-0583	EA	3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	330.79 92.55	138.82
40 05 23	23-0584	EA	4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	424.84 110.78	166.16
40 05 23	23-0585	EA	6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	566.34 138.38	207.57
40 05 23	23-0586	EA	8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	982.31 229.97	344.96
40 05 23	23-0587	EA	10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,426.54 306.63	459.95
40 05 23	23-0588	EA	12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,089.99 459.95	689.93
40 05 23	23-0589	EA	14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,371.17 536.61	804.91
40 05 23	23-0590	EA	16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,832.48 612.11	918.15
40 05 23	23-0591	EA	18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,574.38 766.58	1,149.88
40 05 23	23-0592	EA	20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,872.79 1,073.22	1,609.83
40 05 23	23-0593	EA	24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,072.75 1,533.17	2,299.75
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)					
40 05 23	23-0595	EA	1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	185.37 50.21	75.31
40 05 23	23-0596	EA	3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	223.46 61.63	92.45
40 05 23	23-0597	EA	1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	248.84 69.25	103.88
40 05 23	23-0598	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	284.99 78.97	118.45



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	300.57 84.77	127.15
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	327.73 92.45	138.68
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	424.23 110.78	166.16
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	502.16 138.83	208.25
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	575.85 155.81	233.71
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	872.67 207.74	311.61
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,476.67 306.63	459.95
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,486.82 459.95	689.93
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,093.09 574.94	862.40
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,168.92 690.91	1,036.37
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,284.39 842.84	1,264.26
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,841.30 1,073.22	1,609.83
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	8,839.66 1,412.13	2,118.20
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	13,528.86 2,146.43	3,219.65
 40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	173.71 41.94	62.92
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	205.22 51.40	77.10
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	266.26 57.75	86.63
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	262.83 65.84	98.75
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	269.72 70.75	106.11
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	329.40 77.10	115.64
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	368.21 92.41	138.62
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	484.58 115.50	173.25
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	668.99 131.98	197.96
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,105.57 191.65	287.46
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,068.96 255.53	383.29
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,981.73 383.29	574.94
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,404.72 460.48	690.72
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,214.02 561.70	842.55
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,438.63 715.48	1,073.22
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,711.04 941.42	1,412.12
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	12,048.93 1,429.69	2,144.53
 40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	140.59 38.15	57.22
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	154.43 41.57	62.34
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	168.04 46.08	69.12
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	181.76 50.22	75.33
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	196.77 55.46	83.19
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	260.93 69.30	103.95
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	284.06 78.90	118.35
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	329.25 92.45	138.68

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	447.31 117.70	176.55
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	749.51 183.98	275.97
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	976.05 229.97	344.96
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,272.14 306.63	459.95
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,874.62 402.46	603.68
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,206.33 458.64	687.95
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,895.42 574.94	862.40
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,957.97 766.58	1,149.88
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,494.87 1,149.88	1,724.81
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.49 38.15	57.22
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	178.87 41.57	62.34
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.25 46.08	69.12
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	216.27 50.22	75.33
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	231.29 55.46	83.19
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	281.70 69.30	103.95
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	353.40 78.90	118.35
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	386.37 92.45	138.68
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	527.33 117.70	176.55
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	822.74 183.98	275.97
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,123.49 229.97	344.96
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,533.40 306.63	459.95
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,514.99 402.46	603.68
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,852.63 458.64	687.95
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,731.54 574.94	862.40
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,848.53 766.58	1,149.88
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	7,717.14 1,149.88	1,724.81
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	76.22 19.75	29.63
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.79 20.96	31.44
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	91.76 23.04	34.55
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	104.13 25.11	37.67
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	111.38 27.73	41.59
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	115.66 30.85	46.27
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	148.50 39.49	59.23
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	171.66 46.28	69.42
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	209.07 55.39	83.08
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	287.50 69.30	103.95
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	480.61 114.99	172.48
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	643.01 153.32	229.98
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	969.44 229.97	344.95
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,112.70 268.31	402.46



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,309.48 306.05	459.08
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,644.30 383.29	574.94
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,263.97 536.61	804.91
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,375.17 766.58	1,149.87
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings <small>(40 05 23 23-0231)</small>		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe <small>(40 05 23 23-0685)</small>		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	27.33 3.12	5.20
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	32.30 3.81	6.35
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	44.09 4.47	7.51
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	53.54 5.59	9.36
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	59.38 6.30	10.51
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	73.41 7.81	13.06
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	88.68 8.92	14.90
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	105.73 10.04	16.74
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	134.41 11.89	19.87
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	199.99 15.61	26.10
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	324.13 29.27	45.55
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	426.35 32.20	50.08
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	516.89 35.78	55.69
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	644.89 40.25	62.61
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	706.08 46.00	71.55
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	786.02 53.66	83.48
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	1,115.39 64.39	100.16
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	1,462.94 80.49	125.20
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows <small>(40 05 23 23-0685)</small>		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	138.38 39.50	59.25
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.48 41.93	62.89
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	161.54 46.08	69.12
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	176.95 50.22	75.33
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.33 55.46	83.19
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	217.27 61.70	92.55
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	283.38 78.97	118.45
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	333.54 92.55	138.82
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	409.57 110.78	166.16
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	568.78 138.38	207.57
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	964.50 229.97	344.96
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,453.89 306.63	459.95
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,180.70 459.95	689.93
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,544.44 536.61	804.91
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,037.83 612.11	918.15

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0721	EA	18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,825.05 766.58	1,149.88
40 05 23	23-0722	EA	20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,341.91 1,073.22	1,609.83
40 05 23	23-0723	EA	24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,684.81 1,533.17	2,299.75
40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)					
40 05 23	23-0725	EA	1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	140.21 39.50	59.25
40 05 23	23-0726	EA	3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	148.31 41.93	62.89
40 05 23	23-0727	EA	1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	163.37 46.08	69.12
40 05 23	23-0728	EA	1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	179.40 50.22	75.33
40 05 23	23-0729	EA	1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.33 55.46	83.19
40 05 23	23-0730	EA	2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	217.27 61.70	92.55
40 05 23	23-0731	EA	2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	281.55 78.97	118.45
40 05 23	23-0732	EA	3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	330.79 92.55	138.82
40 05 23	23-0733	EA	4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	403.15 110.78	166.16
40 05 23	23-0734	EA	6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	530.91 138.38	207.57
40 05 23	23-0735	EA	8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	896.54 229.97	344.96
40 05 23	23-0736	EA	10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,426.54 306.63	459.95
40 05 23	23-0737	EA	12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,089.99 459.95	689.93
40 05 23	23-0738	EA	14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,459.44 536.61	804.91
40 05 23	23-0739	EA	16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,881.98 612.11	918.15
40 05 23	23-0740	EA	18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,641.52 766.58	1,149.88
40 05 23	23-0741	EA	20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,177.00 1,073.22	1,609.83
40 05 23	23-0742	EA	24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,465.17 1,533.17	2,299.75
40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)					
40 05 23	23-0744	EA	1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	188.12 50.21	75.31
40 05 23	23-0745	EA	3/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	226.21 61.63	92.45
40 05 23	23-0746	EA	1", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	251.59 69.25	103.88
40 05 23	23-0747	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	289.21 78.97	118.45
40 05 23	23-0748	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	305.15 84.77	127.15
40 05 23	23-0749	EA	2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	331.39 92.45	138.68
40 05 23	23-0750	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	403.46 110.78	166.16
40 05 23	23-0751	EA	3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	505.83 138.83	208.25
40 05 23	23-0752	EA	4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	582.57 155.81	233.71
40 05 23	23-0753	EA	6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	863.51 207.74	311.61
40 05 23	23-0754	EA	8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,436.08 306.63	459.95
40 05 23	23-0755	EA	10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,243.37 459.95	689.93
40 05 23	23-0756	EA	12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,890.21 574.94	862.40
40 05 23	23-0757	EA	14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,717.73 690.91	1,036.37
40 05 23	23-0758	EA	16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,385.49 842.84	1,264.26
40 05 23	23-0759	EA	18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,573.71 1,073.22	1,609.83
40 05 23	23-0760	EA	20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,522.69 1,412.13	2,118.20



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	10,741.24 2,146.43	3,219.65
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	179.21 41.94	62.92
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	212.55 51.40	77.10
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	260.93 57.75	86.63
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	266.50 65.84	98.75
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	282.86 70.75	106.11
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	388.63 77.10	115.64
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	375.54 92.41	138.62
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	507.18 115.50	173.25
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	721.83 131.98	197.96
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,399.49 191.65	287.46
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,576.30 255.53	383.29
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,367.34 383.29	574.94
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,827.82 460.48	690.72
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,743.91 561.70	842.55
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,129.62 715.48	1,073.22
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,745.82 941.42	1,412.12
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	13,697.02 1,429.69	2,144.53
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	140.28 38.15	57.22
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	154.74 41.57	62.34
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	172.70 46.08	69.12
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	180.84 50.22	75.33
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	196.77 55.46	83.19
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	259.65 69.30	103.95
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	302.39 78.90	118.35
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	331.43 92.45	138.68
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	459.83 117.70	176.55
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	713.30 183.98	275.97
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	923.61 229.97	344.96
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,235.87 306.63	459.95
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,755.74 402.46	603.68
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,038.43 458.64	687.95
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,524.13 574.94	862.40
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,550.30 766.58	1,149.88
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,167.08 1,149.88	1,724.81
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	164.02 38.15	57.22
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	182.93 41.57	62.34
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	206.13 46.08	69.12
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	219.93 50.22	75.33

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0802	EA	2"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	220.90 55.46	83.19
40 05 23 23-0803	EA	2-1/2"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	293.00 69.30	103.95
40 05 23 23-0804	EA	3"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	336.60 78.90	118.35
40 05 23 23-0805	EA	4"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	377.82 92.45	138.68
40 05 23 23-0806	EA	6"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	539.55 117.70	176.55
40 05 23 23-0807	EA	8"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	886.06 183.98	275.97
40 05 23 23-0808	EA	10"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,221.14 229.97	344.96
40 05 23 23-0809	EA	12"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,544.61 306.63	459.95
40 05 23 23-0810	EA	14"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,341.22 402.46	603.68
40 05 23 23-0811	EA	16"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,746.07 458.64	687.95
40 05 23 23-0812	EA	18"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,403.31 574.94	862.40
40 05 23 23-0813	EA	20"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,956.39 766.58	1,149.88
40 05 23 23-0814	EA	24"	Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	6,836.92 1,149.88	1,724.81
40 05 23 23-0815			Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)		
40 05 23 23-0816	EA	1/2"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	79.28 19.75	29.63
40 05 23 23-0817	EA	3/4"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	87.90 20.96	31.44
40 05 23 23-0818	EA	1"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	96.34 23.04	34.55
40 05 23 23-0819	EA	1-1/4"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	105.35 25.11	37.67
40 05 23 23-0820	EA	1-1/2"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	113.82 27.73	41.59
40 05 23 23-0821	EA	2"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	119.63 30.85	46.27
40 05 23 23-0822	EA	2-1/2"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	149.39 39.49	59.23
40 05 23 23-0823	EA	3"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	176.85 46.28	69.42
40 05 23 23-0824	EA	4"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	211.82 55.39	83.08
40 05 23 23-0825	EA	6"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	276.20 69.30	103.95
40 05 23 23-0826	EA	8"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	464.44 114.99	172.48
40 05 23 23-0827	EA	10"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	616.13 153.32	229.98
40 05 23 23-0828	EA	12"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	907.38 229.97	344.95
40 05 23 23-0829	EA	14"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,055.34 268.31	402.46
40 05 23 23-0830	EA	16"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,213.48 306.05	459.08
40 05 23 23-0831	EA	18"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,529.45 383.29	574.94
40 05 23 23-0832	EA	20"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,118.97 536.61	804.91
40 05 23 23-0833	EA	24"	Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,202.76 766.58	1,149.87
40 05 23 23-0834			Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835			Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836	LF	1/2"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.85 3.12	5.20
40 05 23 23-0837	LF	3/4"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	38.63 3.81	6.35
40 05 23 23-0838	LF	1"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	47.81 4.47	7.51
40 05 23 23-0839	LF	1-1/4"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	59.77 5.59	9.24
40 05 23 23-0840	LF	1-1/2"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	69.20 6.30	10.39
40 05 23 23-0841	LF	2"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	89.32 7.81	13.28
40 05 23 23-0842	LF	2-1/2"	Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	112.72 8.92	15.01



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Stainless Steel Process Pipe and Tubing 40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	106.54 10.04	16.74
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	187.38 11.89	19.63
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	298.88 15.61	25.99
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	520.75 29.27	45.31
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	671.56 32.20	50.08
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	848.06 35.78	55.45
 40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	139.91 39.50	59.25
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	148.01 41.93	62.89
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	163.07 46.08	69.12
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	177.62 50.22	75.33
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	195.86 55.46	83.19
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	220.93 61.70	92.55
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	294.68 78.97	118.45
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	349.42 92.55	138.82
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	444.39 110.78	166.16
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	690.95 138.38	207.57
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,198.36 229.97	344.96
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,965.18 306.63	459.95
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,799.20 459.95	689.93
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,128.22 536.61	804.91
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,799.97 612.11	918.15
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,852.93 766.58	1,149.88
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	6,550.87 1,073.22	1,609.83
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	9,509.68 1,533.17	2,299.75
 40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	142.96 39.50	59.25
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	151.06 41.93	62.89
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.90 46.08	69.12
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	178.51 50.22	75.33
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	197.69 55.46	83.19
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	220.93 61.70	92.55
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	294.68 78.97	118.45
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	337.51 92.55	138.82
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	421.78 110.78	166.16
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	598.10 138.38	207.57
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,034.77 229.97	344.96
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,588.17 306.63	459.95
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,294.49 459.95	689.93
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,605.86 536.61	804.91

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0883	EA	16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,942.99 612.11	918.15
40 05 23	23-0884	EA	18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,786.05 766.58	1,149.88
40 05 23	23-0885	EA	20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,143.54 1,073.22	1,609.83
40 05 23	23-0886	EA	24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,630.24 1,533.17	2,299.75
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)					
40 05 23	23-0888	EA	1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	189.95 50.21	75.31
40 05 23	23-0889	EA	3/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	228.04 61.63	92.45
40 05 23	23-0890	EA	1", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	253.42 69.25	103.88
40 05 23	23-0891	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	291.87 78.97	118.45
40 05 23	23-0892	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	305.15 84.77	127.15
40 05 23	23-0893	EA	2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	332.61 92.45	138.68
40 05 23	23-0894	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	414.34 110.78	166.16
40 05 23	23-0895	EA	3", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	511.63 138.83	208.25
40 05 23	23-0896	EA	4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	592.65 155.81	233.71
40 05 23	23-0897	EA	6", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	935.29 207.74	311.61
40 05 23	23-0898	EA	8", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,620.49 306.63	459.95
40 05 23	23-0899	EA	10", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,730.25 459.95	689.93
40 05 23	23-0900	EA	12", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,356.98 574.94	862.40
40 05 23	23-0901	EA	14", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,815.75 690.91	1,036.37
40 05 23	23-0902	EA	16", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,967.77 842.84	1,264.26
40 05 23	23-0903	EA	18", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,730.63 1,073.22	1,609.83
40 05 23	23-0904	EA	20", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	10,042.66 1,412.13	2,118.20
40 05 23	23-0905	EA	24", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	14,380.79 2,146.43	3,219.65
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)					
40 05 23	23-0907	EA	3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	185.01 41.94	62.92
40 05 23	23-0908	EA	1", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	216.52 51.40	77.10
40 05 23	23-0909	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	285.36 57.75	86.63
40 05 23	23-0910	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	275.96 65.84	98.75
40 05 23	23-0911	EA	2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	282.86 70.75	106.11
40 05 23	23-0912	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	390.46 77.10	115.64
40 05 23	23-0913	EA	3", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	388.67 92.41	138.62
40 05 23	23-0914	EA	4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	520.32 115.50	173.25
40 05 23	23-0915	EA	6", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	730.08 131.98	197.96
40 05 23	23-0916	EA	8", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,237.20 191.65	287.46
40 05 23	23-0917	EA	10", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,616.88 255.53	383.29
40 05 23	23-0918	EA	12", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,448.49 383.29	574.94
40 05 23	23-0919	EA	14", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,916.86 460.48	690.72
40 05 23	23-0920	EA	16", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,855.42 561.70	842.55
40 05 23	23-0921	EA	18", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	6,275.04 715.48	1,073.22
40 05 23	23-0922	EA	20", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,963.59 941.42	1,412.12
40 05 23	23-0923	EA	24", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	14,043.85 1,429.69	2,144.53



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers <small>(40 05 23 23-0834)</small>				
40 05 23 23-0925	EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	145.17 38.15	57.22
40 05 23 23-0926	EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	159.62 41.57	62.34
40 05 23 23-0927	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	174.92 46.08	69.12
40 05 23 23-0928	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	186.34 50.22	75.33
40 05 23 23-0929	EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	200.13 55.46	83.19
40 05 23 23-0930	EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	270.40 69.30	103.95
40 05 23 23-0931	EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	290.48 78.90	118.35
40 05 23 23-0932	EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	335.67 92.45	138.68
40 05 23 23-0933	EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	461.97 117.70	176.55
40 05 23 23-0934	EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	777.21 183.98	275.97
40 05 23 23-0935	EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,044.01 229.97	344.96
40 05 23 23-0936	EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,322.29 306.63	459.95
40 05 23 23-0937	EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,920.35 402.46	603.68
40 05 23 23-0938	EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,213.63 458.64	687.95
40 05 23 23-0939	EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,961.74 574.94	862.40
40 05 23 23-0940	EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	4,018.40 766.58	1,149.88
40 05 23 23-0941	EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	5,758.16 1,149.88	1,724.81
40 05 23 23-0942	EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	179.68 38.15	57.22
40 05 23 23-0943	EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	191.08 41.57	62.34
40 05 23 23-0944	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	222.02 46.08	69.12
40 05 23 23-0945	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	229.40 50.22	75.33
40 05 23 23-0946	EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	245.95 55.46	83.19
40 05 23 23-0947	EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	293.00 69.30	103.95
40 05 23 23-0948	EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	378.75 78.90	118.35
40 05 23 23-0949	EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	411.42 92.45	138.68
40 05 23 23-0950	EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	586.28 117.70	176.55
40 05 23 23-0951	EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	870.23 183.98	275.97
40 05 23 23-0952	EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,248.51 229.97	344.96
40 05 23 23-0953	EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,731.32 306.63	459.95
40 05 23 23-0954	EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,607.57 402.46	603.68
40 05 23 23-0955	EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	3,004.76 458.64	687.95
40 05 23 23-0956	EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	4,043.22 574.94	862.40
40 05 23 23-0957	EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	5,195.04 766.58	1,149.88
40 05 23 23-0958	EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	7,788.17 1,149.88	1,724.81
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps <small>(40 05 23 23-0834)</small>				
40 05 23 23-0960	EA 1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	79.89 19.75	29.63
40 05 23 23-0961	EA 3/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	87.60 20.96	31.44
40 05 23 23-0962	EA 1", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	96.95 23.04	34.55
40 05 23 23-0963	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	111.01 25.11	37.67
40 05 23 23-0964	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	109.24 27.73	41.59

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0965	EA	2"	Type 316, Schedule 40 Stainless Steel Cap.....	123.90	46.27
			<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0966	EA	2-1/2"	Type 316, Schedule 40 Stainless Steel Cap.....	154.94	59.23
			<i>For Work In Restricted Working Space, Add</i>	39.49	
40 05 23 23-0967	EA	3"	Type 316, Schedule 40 Stainless Steel Cap.....	177.77	69.42
			<i>For Work In Restricted Working Space, Add</i>	46.28	
40 05 23 23-0968	EA	4"	Type 316, Schedule 40 Stainless Steel Cap.....	218.54	83.08
			<i>For Work In Restricted Working Space, Add</i>	55.39	
40 05 23 23-0969	EA	6"	Type 316, Schedule 40 Stainless Steel Cap.....	304.30	103.95
			<i>For Work In Restricted Working Space, Add</i>	69.30	
40 05 23 23-0970	EA	8"	Type 316, Schedule 40 Stainless Steel Cap.....	517.22	172.48
			<i>For Work In Restricted Working Space, Add</i>	114.99	
40 05 23 23-0971	EA	10"	Type 316, Schedule 40 Stainless Steel Cap.....	693.80	229.98
			<i>For Work In Restricted Working Space, Add</i>	153.32	
40 05 23 23-0972	EA	12"	Type 316, Schedule 40 Stainless Steel Cap.....	1,034.42	344.95
			<i>For Work In Restricted Working Space, Add</i>	229.97	
40 05 23 23-0973	EA	14"	Type 316, Schedule 40 Stainless Steel Cap.....	1,178.46	402.46
			<i>For Work In Restricted Working Space, Add</i>	268.31	
40 05 23 23-0974	EA	16"	Type 316, Schedule 40 Stainless Steel Cap.....	1,323.75	459.08
			<i>For Work In Restricted Working Space, Add</i>	306.05	
40 05 23 23-0975	EA	18"	Type 316, Schedule 40 Stainless Steel Cap.....	1,690.92	574.94
			<i>For Work In Restricted Working Space, Add</i>	383.29	
40 05 23 23-0976	EA	20"	Type 316, Schedule 40 Stainless Steel Cap.....	2,322.24	804.91
			<i>For Work In Restricted Working Space, Add</i>	536.61	
40 05 23 23-0977	EA	24"	Type 316, Schedule 40 Stainless Steel Cap.....	3,598.62	1,149.87
			<i>For Work In Restricted Working Space, Add</i>	766.58	
40 05 23 23-0978			Valves <small>(40 05 23 23-0231)</small>		
40 05 23 23-0979			Gate Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-0980	EA	1/2"	Gate Valve, Stainless Steel, Flanged.....	707.10	59.38
			<i>For Work In Restricted Working Space, Add</i>	22.27	
			<i>For Class 200, Deduct</i>	-169.29	
			<i>For Class 300, Add</i>	594.90	
40 05 23 23-0981	EA	3/4"	Gate Valve, Stainless Steel, Flanged.....	767.84	61.86
			<i>For Work In Restricted Working Space, Add</i>	25.98	
			<i>For Class 200, Deduct</i>	-182.23	
			<i>For Class 300, Add</i>	640.36	
40 05 23 23-0982	EA	1"	Gate Valve, Stainless Steel, Flanged.....	945.58	92.79
			<i>For Work In Restricted Working Space, Add</i>	35.02	
			<i>For Class 200, Deduct</i>	-221.72	
			<i>For Class 300, Add</i>	779.13	
40 05 23 23-0983	EA	1-1/4"	Gate Valve, Stainless Steel, Flanged.....	1,193.16	108.26
			<i>For Work In Restricted Working Space, Add</i>	40.34	
			<i>For Class 200, Deduct</i>	-283.20	
			<i>For Class 300, Add</i>	995.16	
40 05 23 23-0984	EA	1-1/2"	Gate Valve, Stainless Steel, Flanged.....	1,343.91	136.28
			<i>For Work In Restricted Working Space, Add</i>	51.10	
			<i>For Class 200, Deduct</i>	-313.93	
			<i>For Class 300, Add</i>	1,103.16	
40 05 23 23-0985	EA	2"	Gate Valve, Stainless Steel, Flanged.....	1,595.04	164.93
			<i>For Work In Restricted Working Space, Add</i>	61.86	
			<i>For Class 200, Deduct</i>	-371.51	
			<i>For Class 300, Add</i>	1,305.50	
40 05 23 23-0986	EA	2-1/2"	Gate Valve, Stainless Steel, Flanged.....	2,296.97	179.39
			<i>For Work In Restricted Working Space, Add</i>	67.49	
			<i>For Class 300, Add</i>	1,947.70	
40 05 23 23-0987	EA	3"	Gate Valve, Stainless Steel, Flanged.....	2,586.34	210.33
			<i>For Work In Restricted Working Space, Add</i>	78.97	
			<i>For Class 300, Add</i>	2,183.71	
40 05 23 23-0988	EA	4"	Gate Valve, Stainless Steel, Flanged.....	3,413.67	352.62
			<i>For Work In Restricted Working Space, Add</i>	132.56	
			<i>For Class 300, Add</i>	2,793.49	
40 05 23 23-0989	EA	6"	Gate Valve, Stainless Steel, Flanged.....	5,724.45	445.40
			<i>For Work In Restricted Working Space, Add</i>	167.63	
			<i>For Class 300, Add</i>	4,855.76	
40 05 23 23-0990	EA	8"	Gate Valve, Stainless Steel, Flanged.....	12,528.15	569.13
			<i>For Work In Restricted Working Space, Add</i>	212.10	
			<i>For Class 300, Add</i>	11,111.89	
40 05 23 23-0991	EA	10"	Gate Valve, Stainless Steel, Flanged.....	17,666.32	692.86
			<i>For Work In Restricted Working Space, Add</i>	259.82	
			<i>For Class 300, Add</i>	15,792.24	
40 05 23 23-0992	EA	12"	Gate Valve, Stainless Steel, Flanged.....	26,617.71	841.31
			<i>For Work In Restricted Working Space, Add</i>	314.93	
			<i>For Class 300, Add</i>	24,033.86	
40 05 23 23-0993			Globe Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-0994	EA	1/2"	Globe Valve, Stainless Steel, Flanged.....	968.25	59.38
			<i>For Work In Restricted Working Space, Add</i>	22.27	
			<i>For Class 200, Deduct</i>	-239.15	
			<i>For Class 300, Add</i>	840.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged	1,071.32	61.86
<i>For Work In Restricted Working Space, Add</i>	25.98	
<i>For Class 200, Deduct</i>	-263.41	
<i>For Class 300, Add</i>	925.63	
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged	1,334.65	92.79
<i>For Work In Restricted Working Space, Add</i>	35.02	
<i>For Class 200, Deduct</i>	-325.80	
<i>For Class 300, Add</i>	1,144.85	
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged	1,984.28	136.28
<i>For Work In Restricted Working Space, Add</i>	51.10	
<i>For Class 200, Deduct</i>	-485.23	
<i>For Class 300, Add</i>	1,705.10	
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged	2,421.82	164.93
<i>For Work In Restricted Working Space, Add</i>	61.86	
<i>For Class 200, Deduct</i>	-592.68	
<i>For Class 300, Add</i>	2,082.67	
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged	4,889.40	179.39
<i>For Work In Restricted Working Space, Add</i>	67.49	
<i>For Class 300, Add</i>	4,384.58	
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged	5,057.26	210.33
<i>For Work In Restricted Working Space, Add</i>	78.97	
<i>For Class 300, Add</i>	4,506.38	
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged	6,013.28	352.62
<i>For Work In Restricted Working Space, Add</i>	132.56	
<i>For Class 300, Add</i>	5,237.13	
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged	11,118.52	445.40
<i>For Work In Restricted Working Space, Add</i>	167.63	
<i>For Class 300, Add</i>	9,926.18	
40 05 23 23-1003 Check Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged.....	2,197.54	179.39
<i>For Work In Restricted Working Space, Add</i>	67.49	
<i>For Class 300, Add</i>	1,854.23	
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged.....	2,297.34	210.33
<i>For Work In Restricted Working Space, Add</i>	78.97	
<i>For Class 300, Add</i>	1,912.05	
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged.....	3,607.53	352.62
<i>For Work In Restricted Working Space, Add</i>	132.56	
<i>For Class 300, Add</i>	2,975.72	
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged.....	6,216.53	445.40
<i>For Work In Restricted Working Space, Add</i>	167.63	
<i>For Class 300, Add</i>	5,318.31	
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged.....	10,944.86	569.13
<i>For Work In Restricted Working Space, Add</i>	212.10	
<i>For Class 300, Add</i>	9,623.60	
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings <small>(40 05 23 23-0231)</small>		
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting.....	95.35	35.92
<i>For Work In Restricted Working Space, Add</i>	23.95	
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting.....	125.83	47.90
<i>For Work In Restricted Working Space, Add</i>	31.93	
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting.....	155.08	59.38
<i>For Work In Restricted Working Space, Add</i>	39.59	
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting	222.61	84.03
<i>For Work In Restricted Working Space, Add</i>	56.03	
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting	246.45	94.77
<i>For Work In Restricted Working Space, Add</i>	63.18	
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting.....	308.35	120.38
<i>For Work In Restricted Working Space, Add</i>	80.25	
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting	549.38	185.59
<i>For Work In Restricted Working Space, Add</i>	123.72	
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting.....	735.29	236.92
<i>For Work In Restricted Working Space, Add</i>	157.94	
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting.....	968.73	296.94
<i>For Work In Restricted Working Space, Add</i>	197.96	
40 05 23 23-1019 Stainless Steel Flanges <small>(40 05 23 23-0231)</small>		
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange <small>(40 05 23 23-1019)</small>		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	82.32	19.95
<i>For Work In Restricted Working Space, Add</i>	11.98	
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	100.32	26.61
<i>For Work In Restricted Working Space, Add</i>	15.96	
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	118.75	33.00
<i>For Work In Restricted Working Space, Add</i>	19.79	
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	160.27	46.69
<i>For Work In Restricted Working Space, Add</i>	28.01	
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	172.20	52.65
<i>For Work In Restricted Working Space, Add</i>	31.59	
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	221.41	66.87
<i>For Work In Restricted Working Space, Add</i>	40.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 23 23-1027	EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	328.69 61.86	103.06
40 05 23 23-1028	EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	391.38 78.97	210.33
40 05 23 23-1029	EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	505.16 98.98	164.93
40 05 23 23-1030	300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1031	EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	106.82 11.98	19.95
40 05 23 23-1032	EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	120.11 15.96	26.61
40 05 23 23-1033	EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	132.88 19.79	33.00
40 05 23 23-1034	EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	196.10 28.01	46.69
40 05 23 23-1035	EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	208.03 31.59	52.65
40 05 23 23-1036	EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	258.14 40.13	66.87
40 05 23 23-1037	EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	410.67 61.86	103.06
40 05 23 23-1038	EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	475.22 78.97	210.33
40 05 23 23-1039	EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	634.25 98.98	164.93
40 05 23 23-1040	150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1041	EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	108.24 19.75	29.61
40 05 23 23-1042	EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	116.99 20.96	31.44
40 05 23 23-1043	EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	131.43 23.04	34.55
40 05 23 23-1044	EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	161.99 25.13	37.69
40 05 23 23-1045	EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	170.56 27.70	41.54
40 05 23 23-1046	EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	189.54 30.86	46.29
40 05 23 23-1047	EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	262.51 39.46	59.19
40 05 23 23-1048	EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	297.21 46.20	69.29
40 05 23 23-1049	EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	384.25 55.35	83.02
40 05 23 23-1050	EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	575.35 69.16	103.73
40 05 23 23-1051	EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	967.40 114.99	172.48
40 05 23 23-1052	EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,373.10 153.32	229.96
40 05 23 23-1053	EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,111.90 229.97	344.95
40 05 23 23-1054	EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,642.61 268.31	402.46
40 05 23 23-1055	EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,301.52 306.05	459.08
40 05 23 23-1056	EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,049.00 383.29	574.94
40 05 23 23-1057	EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,241.40 536.61	804.91
40 05 23 23-1058	EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	7,448.06 766.58	1,149.87
40 05 23 23-1059	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1060	EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	137.45 19.75	29.61
40 05 23 23-1061	EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	141.49 20.96	31.44
40 05 23 23-1062	EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	148.42 23.04	34.55
40 05 23 23-1063	EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	194.92 25.13	37.69
40 05 23 23-1064	EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	203.49 27.70	41.54
40 05 23 23-1065	EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	217.81 30.86	46.29
40 05 23 23-1066	EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	311.47 39.46	59.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	351.83	69.29
For Work In Restricted Working Space, Add	46.20	
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	512.34	83.02
For Work In Restricted Working Space, Add	55.35	
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	720.43	103.73
For Work In Restricted Working Space, Add	69.16	
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	1,329.16	172.48
For Work In Restricted Working Space, Add	114.99	
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	1,850.77	229.96
For Work In Restricted Working Space, Add	153.32	
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	2,718.66	344.95
For Work In Restricted Working Space, Add	229.97	
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	3,601.77	402.46
For Work In Restricted Working Space, Add	268.31	
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	4,448.56	459.08
For Work In Restricted Working Space, Add	306.05	
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	5,682.35	574.94
For Work In Restricted Working Space, Add	383.29	
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	7,331.20	804.91
For Work In Restricted Working Space, Add	536.61	
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....	10,675.65	1,149.87
For Work In Restricted Working Space, Add	766.58	
40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1079)		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....	169.34	59.24
For Work In Restricted Working Space, Add	39.50	
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange.....	178.40	62.88
For Work In Restricted Working Space, Add	41.93	
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange.....	196.01	69.12
For Work In Restricted Working Space, Add	46.08	
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange.....	225.01	75.39
For Work In Restricted Working Space, Add	50.26	
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....	242.15	83.10
For Work In Restricted Working Space, Add	55.40	
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange.....	280.18	92.56
For Work In Restricted Working Space, Add	61.71	
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....	367.64	118.37
For Work In Restricted Working Space, Add	78.92	
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange.....	420.13	138.58
For Work In Restricted Working Space, Add	92.39	
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange.....	521.67	166.06
For Work In Restricted Working Space, Add	110.71	
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange.....	693.78	207.47
For Work In Restricted Working Space, Add	138.32	
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange.....	1,206.57	344.95
For Work In Restricted Working Space, Add	229.97	
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,705.14	459.95
For Work In Restricted Working Space, Add	306.63	
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	2,542.19	689.91
For Work In Restricted Working Space, Add	459.95	
40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1099)		
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange.....	188.19	59.24
For Work In Restricted Working Space, Add	39.50	
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	196.29	62.88
For Work In Restricted Working Space, Add	41.93	
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	210.14	69.12
For Work In Restricted Working Space, Add	46.08	
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	254.22	75.39
For Work In Restricted Working Space, Add	50.26	
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	271.36	83.10
For Work In Restricted Working Space, Add	55.40	
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	299.92	92.56
For Work In Restricted Working Space, Add	61.71	
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	441.16	118.37
For Work In Restricted Working Space, Add	78.92	
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	493.60	138.58
For Work In Restricted Working Space, Add	92.39	
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	623.40	166.06
For Work In Restricted Working Space, Add	110.71	
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	981.13	207.47
For Work In Restricted Working Space, Add	138.32	
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,496.72	344.95
For Work In Restricted Working Space, Add	229.97	
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	2,172.44	459.95
For Work In Restricted Working Space, Add	306.63	
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	3,143.28	689.91
For Work In Restricted Working Space, Add	459.95	
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1099)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1107	EA	1/2"	150#, Type 304 Stainless Steel Raised Face Blind Flange	66.55	11.84
			<i>For Work In Restricted Working Space, Add</i>	7.90	
40 05 23 23-1108	EA	3/4"	150#, Type 304 Stainless Steel Raised Face Blind Flange	69.39	12.56
			<i>For Work In Restricted Working Space, Add</i>	8.39	
40 05 23 23-1109	EA	1"	150#, Type 304 Stainless Steel Raised Face Blind Flange	75.02	13.81
			<i>For Work In Restricted Working Space, Add</i>	9.22	
40 05 23 23-1110	EA	1-1/4"	150#, Type 304 Stainless Steel Raised Face Blind Flange	97.33	15.38
			<i>For Work In Restricted Working Space, Add</i>	10.26	
40 05 23 23-1111	EA	1-1/2"	150#, Type 304 Stainless Steel Raised Face Blind Flange	109.35	20.79
			<i>For Work In Restricted Working Space, Add</i>	13.86	
40 05 23 23-1112	EA	2"	150#, Type 304 Stainless Steel Raised Face Blind Flange	129.51	23.08
			<i>For Work In Restricted Working Space, Add</i>	15.39	
40 05 23 23-1113	EA	2-1/2"	150#, Type 304 Stainless Steel Raised Face Blind Flange	177.10	29.68
			<i>For Work In Restricted Working Space, Add</i>	19.79	
40 05 23 23-1114	EA	3"	150#, Type 304 Stainless Steel Raised Face Blind Flange	214.88	41.58
			<i>For Work In Restricted Working Space, Add</i>	27.72	
40 05 23 23-1115	EA	4"	150#, Type 304 Stainless Steel Raised Face Blind Flange	325.45	69.28
			<i>For Work In Restricted Working Space, Add</i>	46.19	
40 05 23 23-1116	EA	6"	150#, Type 304 Stainless Steel Raised Face Blind Flange	448.59	89.09
			<i>For Work In Restricted Working Space, Add</i>	59.39	
40 05 23 23-1117	EA	8"	150#, Type 304 Stainless Steel Raised Face Blind Flange	697.32	107.32
			<i>For Work In Restricted Working Space, Add</i>	71.55	
40 05 23 23-1118	EA	10"	150#, Type 304 Stainless Steel Raised Face Blind Flange	1,083.23	128.79
			<i>For Work In Restricted Working Space, Add</i>	85.86	
40 05 23 23-1119	EA	12"	150#, Type 304 Stainless Steel Raised Face Blind Flange	1,436.46	160.98
			<i>For Work In Restricted Working Space, Add</i>	107.32	
40 05 23 23-1120	EA	14"	150#, Type 304 Stainless Steel Raised Face Blind Flange	1,827.11	201.23
			<i>For Work In Restricted Working Space, Add</i>	134.15	
40 05 23 23-1121	EA	16"	150#, Type 304 Stainless Steel Raised Face Blind Flange	2,366.55	229.54
			<i>For Work In Restricted Working Space, Add</i>	153.03	
40 05 23 23-1122	EA	18"	150#, Type 304 Stainless Steel Raised Face Blind Flange	2,793.12	287.46
			<i>For Work In Restricted Working Space, Add</i>	191.65	
40 05 23 23-1123	EA	20"	150#, Type 304 Stainless Steel Raised Face Blind Flange	3,703.87	402.46
			<i>For Work In Restricted Working Space, Add</i>	268.31	
40 05 23 23-1124	EA	24"	150#, Type 304 Stainless Steel Raised Face Blind Flange	5,397.60	574.94
			<i>For Work In Restricted Working Space, Add</i>	383.29	
40 05 23 23-1125			300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1126	EA	1/2"	300#, Type 304 Stainless Steel Raised Face Blind Flange	85.72	11.84
			<i>For Work In Restricted Working Space, Add</i>	7.90	
40 05 23 23-1127	EA	3/4"	300#, Type 304 Stainless Steel Raised Face Blind Flange	87.33	12.56
			<i>For Work In Restricted Working Space, Add</i>	8.39	
40 05 23 23-1128	EA	1"	300#, Type 304 Stainless Steel Raised Face Blind Flange	90.10	13.81
			<i>For Work In Restricted Working Space, Add</i>	9.22	
40 05 23 23-1129	EA	1-1/4"	300#, Type 304 Stainless Steel Raised Face Blind Flange	115.22	15.38
			<i>For Work In Restricted Working Space, Add</i>	10.26	
40 05 23 23-1130	EA	1-1/2"	300#, Type 304 Stainless Steel Raised Face Blind Flange	127.24	20.79
			<i>For Work In Restricted Working Space, Add</i>	13.86	
40 05 23 23-1131	EA	2"	300#, Type 304 Stainless Steel Raised Face Blind Flange	138.94	23.08
			<i>For Work In Restricted Working Space, Add</i>	15.39	
40 05 23 23-1132	EA	2-1/2"	300#, Type 304 Stainless Steel Raised Face Blind Flange	243.05	29.68
			<i>For Work In Restricted Working Space, Add</i>	19.79	
40 05 23 23-1133	EA	3"	300#, Type 304 Stainless Steel Raised Face Blind Flange	276.59	41.58
			<i>For Work In Restricted Working Space, Add</i>	27.72	
40 05 23 23-1134	EA	4"	300#, Type 304 Stainless Steel Raised Face Blind Flange	402.68	69.28
			<i>For Work In Restricted Working Space, Add</i>	46.19	
40 05 23 23-1135	EA	6"	300#, Type 304 Stainless Steel Raised Face Blind Flange	767.01	89.09
			<i>For Work In Restricted Working Space, Add</i>	59.39	
40 05 23 23-1136	EA	8"	300#, Type 304 Stainless Steel Raised Face Blind Flange	1,077.92	107.32
			<i>For Work In Restricted Working Space, Add</i>	71.55	
40 05 23 23-1137	EA	10"	300#, Type 304 Stainless Steel Raised Face Blind Flange	1,546.72	128.79
			<i>For Work In Restricted Working Space, Add</i>	85.86	
40 05 23 23-1138	EA	12"	300#, Type 304 Stainless Steel Raised Face Blind Flange	2,147.76	160.98
			<i>For Work In Restricted Working Space, Add</i>	107.32	
40 05 23 23-1139	EA	14"	300#, Type 304 Stainless Steel Raised Face Blind Flange	3,013.47	201.23
			<i>For Work In Restricted Working Space, Add</i>	134.15	
40 05 23 23-1140	EA	16"	300#, Type 304 Stainless Steel Raised Face Blind Flange	3,864.39	229.54
			<i>For Work In Restricted Working Space, Add</i>	153.03	
40 05 23 23-1141	EA	18"	300#, Type 304 Stainless Steel Raised Face Blind Flange	5,047.34	287.46
			<i>For Work In Restricted Working Space, Add</i>	191.65	
40 05 23 23-1142	EA	20"	300#, Type 304 Stainless Steel Raised Face Blind Flange	6,378.36	402.46
			<i>For Work In Restricted Working Space, Add</i>	268.31	
40 05 23 23-1143	EA	24"	300#, Type 304 Stainless Steel Raised Face Blind Flange	9,796.49	574.94
			<i>For Work In Restricted Working Space, Add</i>	383.29	
40 05 23 23-1144			150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1145	EA	1/2"	150#, Type 316 Stainless Steel Raised Face Threaded Flange	99.30	19.95
			<i>For Work In Restricted Working Space, Add</i>	11.98	
40 05 23 23-1146	EA	3/4"	150#, Type 316 Stainless Steel Raised Face Threaded Flange	122.01	26.61
			<i>For Work In Restricted Working Space, Add</i>	15.96	
40 05 23 23-1147	EA	1"	150#, Type 316 Stainless Steel Raised Face Threaded Flange	139.45	33.00
			<i>For Work In Restricted Working Space, Add</i>	19.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	191.34 28.01	46.69
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	203.27 31.59	52.65
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	255.33 40.13	66.87
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	377.69 61.86	103.06
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	454.52 78.97	210.33
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	593.71 98.98	164.93
 40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	131.32 11.98	19.95
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	144.61 15.96	26.61
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	157.38 19.79	33.00
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	243.20 28.01	46.69
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	255.13 31.59	52.65
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	299.58 40.13	66.87
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	503.93 61.86	103.06
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	570.38 78.97	210.33
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	785.89 98.98	164.93
 40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	129.88 19.75	29.61
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	138.68 20.96	31.44
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	155.94 23.04	34.55
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	194.02 25.13	37.69
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	202.59 27.70	41.54
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	222.52 30.86	46.29
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	318.04 39.46	59.19
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	347.12 46.20	69.29
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	469.04 55.35	83.02
40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	722.33 69.16	103.73
40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,194.46 114.99	172.48
40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,751.85 153.32	229.96
40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,612.22 229.97	344.95
40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,056.97 268.31	402.46
40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,842.24 306.05	459.08
40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,705.86 383.29	574.94
40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,059.74 536.61	804.91
40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,607.73 766.58	1,149.87
 40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	165.71 19.75	29.61
40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	169.75 20.96	31.44
40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	176.68 23.04	34.55
40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	233.60 25.13	37.69

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 23 Stainless Steel Process Pipe and Tubing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1188	EA	1-1/2"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	242.17 27.70	41.54
40 05 23 23-1189	EA	2"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	264.91 30.86	46.29
40 05 23 23-1190	EA	2-1/2"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	392.51 39.46	59.19
40 05 23 23-1191	EA	3"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	428.16 46.20	69.29
40 05 23 23-1192	EA	4"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	653.65 55.35	83.02
40 05 23 23-1193	EA	6"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,069.96 69.16	103.73
40 05 23 23-1194	EA	8"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,686.26 114.99	172.48
40 05 23 23-1195	EA	10"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,429.22 153.32	229.96
40 05 23 23-1196	EA	12"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,568.42 229.97	344.95
40 05 23 23-1197	EA	14"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,837.71 268.31	402.46
40 05 23 23-1198	EA	16"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,013.64 306.05	459.08
40 05 23 23-1199	EA	18"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	7,693.13 383.29	574.94
40 05 23 23-1200	EA	20"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	9,861.39 536.61	804.91
40 05 23 23-1201	EA	24"	300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	14,382.64 766.58	1,149.87
40 05 23 23-1202			150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1203	EA	1/2"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	180.67 39.50	59.24
40 05 23 23-1204	EA	3/4"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	195.38 41.93	62.88
40 05 23 23-1205	EA	1"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	215.47 46.08	69.12
40 05 23 23-1206	EA	1-1/4"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	296.00 50.26	75.39
40 05 23 23-1207	EA	1-1/2"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	264.75 55.40	83.10
40 05 23 23-1208	EA	2"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	285.79 61.71	92.56
40 05 23 23-1209	EA	2-1/2"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	363.89 78.92	118.37
40 05 23 23-1210	EA	3"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	452.15 92.39	138.58
40 05 23 23-1211	EA	4"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	589.48 110.71	166.06
40 05 23 23-1212	EA	6"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	794.56 138.32	207.47
40 05 23 23-1213	EA	8"	150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,414.74 229.97	344.95
40 05 23 23-1214	EA	10"	150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,989.68 306.63	459.95
40 05 23 23-1215	EA	12"	150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,922.79 459.95	689.91
40 05 23 23-1216			300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217	EA	1/2"	300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	207.03 39.50	59.24
40 05 23 23-1218	EA	3/4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	215.13 41.93	62.88
40 05 23 23-1219	EA	1"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	228.98 46.08	69.12
40 05 23 23-1220	EA	1-1/4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	290.96 50.26	75.39
40 05 23 23-1221	EA	1-1/2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	308.10 55.40	83.10
40 05 23 23-1222	EA	2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	334.66 61.71	92.56
40 05 23 23-1223	EA	2-1/2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	523.09 78.92	118.37
40 05 23 23-1224	EA	3"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	577.43 92.39	138.58
40 05 23 23-1225	EA	4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	753.39 110.71	166.06
40 05 23 23-1226	EA	6"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,170.50 138.32	207.47
40 05 23 23-1227	EA	8"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,691.76 229.97	344.95
40 05 23 23-1228	EA	10"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,807.42 306.63	459.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	3,702.89 459.95	689.91
40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	75.35 7.90	11.84
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	85.43 8.39	12.56
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	96.67 9.22	13.81
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	114.27 10.26	15.38
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	126.29 13.86	20.79
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	157.78 15.39	23.08
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	221.40 19.79	29.68
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	263.88 27.72	41.58
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	408.34 46.19	69.28
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	581.44 59.39	89.09
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,014.78 71.55	107.32
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,333.84 85.86	128.79
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,159.08 107.32	160.98
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,566.95 134.15	201.23
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,361.88 153.03	229.54
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,948.12 191.65	287.46
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,210.16 268.31	402.46
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,606.47 383.29	574.94
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	117.74 7.90	11.84
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	119.35 8.39	12.56
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	122.12 9.22	13.81
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	184.02 10.26	15.38
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	196.04 13.86	20.79
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	217.11 15.39	23.08
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	363.67 19.79	29.68
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	399.54 27.72	41.58
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	609.94 46.19	69.28
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,120.35 59.39	89.09
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,443.49 71.55	107.32
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,609.46 85.86	128.79
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,181.28 107.32	160.98
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,600.90 134.15	201.23
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,939.24 153.03	229.54
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,774.28 191.65	287.46
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	9,770.58 268.31	402.46
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	15,065.96 383.29	574.94
40 05 23 23-1268 Type 316 Seamless Annealed Tubing <small>(40 05 23 23)</small>		
Note: For high pressure air (8000 PSIG working pressure).		

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
 40 05 23 Stainless Steel Process Pipe and Tubing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1269			Type 316 Seamless Annealed Tubing <small>(40 05 23 23-1268)</small>		
40 05 23 23-1270	LF		3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	26.16	
40 05 23 23-1271	LF		1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	33.03	
40 05 23 23-1272	LF		3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	40.03	
40 05 23 23-1273			Type 316 Seamless Annealed Tubing Fittings <small>(40 05 23 23-1268)</small>		
Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.					
40 05 23 23-1274	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	83.10	
40 05 23 23-1275	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	97.30	
40 05 23 23-1276	EA		3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	149.88	
40 05 23 23-1277	EA		3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	68.47	
40 05 23 23-1278	EA		3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	113.01	
40 05 23 23-1279	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	84.73	
40 05 23 23-1280	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	106.14	
40 05 23 23-1281	EA		1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	163.50	
40 05 23 23-1282	EA		1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	104.18	
40 05 23 23-1283	EA		1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	160.51	
40 05 23 23-1284	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	101.45	
40 05 23 23-1285	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	131.59	
40 05 23 23-1286	EA		3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	218.37	
40 05 23 23-1287	EA		3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	180.62	
40 05 23 23-1288	EA		3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	222.17	
40 05 23 23-1289			Valves For High Pressure Air (5,000 PSIG) <small>(40 05 23 23-1268)</small>		
40 05 23 23-1290			Needle Valves <small>(40 05 23 23-1289)</small>		
40 05 23 23-1291	EA		3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	418.48	
40 05 23 23-1292	EA		1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	666.69	
40 05 23 23-1293			Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG <small>(40 05 23 23-1289)</small>		
40 05 23 23-1294	EA		1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction	401.54	
40 05 23 23-1295			Other Valves Working Pressure 6,000 PSI <small>(40 05 23 23-1289)</small>		
40 05 23 23-1296	EA		1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,678.84	
40 05 23 23-1297	EA		1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	417.85	
40 05 23 23-1298	EA		Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element	78.87	

END OF SECTION 40



Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 20 Liquid Handling Equipment ⁽⁴³⁾

43 23 Dry Location Liquid Pumps ^(43 20)

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)

43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI..... 4,836.59

43 24 Suspended Liquid Pumps ^(43 20)

43 24 41 Archimedes Screw Pumps ^(43 24)

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)

43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing..... 3,978.48

43 40 Gas and Liquid Storage ⁽⁴³⁾

43 42 Pressurized Tanks And Vessels ^(43 40)

43 42 41 Metallic Specialty Pressure Tanks ^(43 42)

43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)

43 42 41 00-0002	EA	250 Gallon Aboveground LP Gas Storage Tank.....	2,145.80	133.80
43 42 41 00-0003	EA	500 Gallon Aboveground LP Gas Storage Tank.....	3,971.69	200.69
43 42 41 00-0004	EA	1,000 Gallon Aboveground LP Gas Storage Tank.....	5,690.53	214.07

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**THIS PAGE INTENTIONALLY LEFT BLANK**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

Note: Use as directed by owner only.

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 81)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, speciality equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for speciality equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0050 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00
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Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 82)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	1,494.85
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	44.69
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	12.61
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	86.69
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	78.22
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.47
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	5.31
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	13.18
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.76
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	31.46
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	69.80
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	24.78
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	37.68
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	45.89
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.46
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	2,903.71
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	695.60

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	555.00
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	490.68
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,202.50
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	6.77
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	926.38
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	5.07
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	0.91
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.47
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	13.30
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.30
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	0.91
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.52
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	8.05
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	113.44
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	10.18
		Note: 12" Diameter, Type 1	
		For >1,000 To 10,000, Deduct	-1.00
		For >10,000, Deduct	-1.70
		For 9" Diameter, Deduct	-1.80
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	8.36
		Note: 12" Diameter, Type 2	
		For >1,000 To 10,000, Deduct	-0.72
		For >10,000, Deduct	-1.24
		For 9" Diameter, Deduct	-1.80
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	14.35
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	10.76
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	3.76
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	4.58
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	1,524.81
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	37.57
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	490.68
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT	762.50
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT	818.12



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 CALTRANS DIVISION III - GRADING (50 89 80)

50 89 83 17 GENERAL (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001 ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....13,506.27

Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill

50 89 83 19 EARTHWORK (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY	CALTRANS 190101 ROADWAY EXCAVATION	.....	21.96	
		<i>For >1,000, Deduct</i>		-3.29	
50 89 83 19-0002	CY	CALTRANS 190161 ROCK EXCAVATION	.....	37.35	
50 89 83 19-0003	TON	CALTRANS 190185 SHOULDER BACKING	.....	116.95	
50 89 83 19-0004	CY	CALTRANS 192037 STRUCTURE EXCAVATION (RETAINING WALL)	.....	65.13	879.61
50 89 83 19-0005	CY	CALTRANS 192049 STRUCTURE EXCAVATION (SOLDIER PILE WALL)	.....	97.21	305.59
50 89 83 19-0006	CY	CALTRANS 192502 SAND BEDDING	.....	39.97	
		<i>For Up To 8, Add</i>		7.99	
		<i>For >8 To 16, Add</i>		4.00	
		<i>For >48 To 64, Deduct</i>		-2.86	
		<i>For >64 To 96, Deduct</i>		-4.86	
		<i>For >96, Deduct</i>		-6.86	
50 89 83 19-0007	CY	CALTRANS 193013 STRUCTURE BACKFILL (RETAINING WALL)	.....	65.13	879.61
50 89 83 19-0008	CY	CALTRANS 193118 CONCRETE BACKFILL	.....	238.46	
50 89 83 19-0009	CY	CALTRANS 198010 IMPORTED BORROW (CY)	.....	67.14	
50 89 83 19-0010	TON	CALTRANS 198011 IMPORTED BORROW (TON)	.....	93.99	
50 89 83 19-0011	SY	CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1	.....	6.07	
		<i>For Up To 50, Add</i>		1.27	
		<i>For >50 To 150, Add</i>		0.95	
		<i>For >150 To 250, Add</i>		0.63	
		<i>For >250 To 500, Add</i>		0.31	
50 89 83 19-0012	SY	CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2	.....	2.50	
		<i>For Up To 50, Add</i>		0.54	
		<i>For >50 To 150, Add</i>		0.40	
		<i>For >150 To 250, Add</i>		0.26	
		<i>For >250 To 500, Add</i>		0.13	
50 89 83 19-0013	SY	CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1	.....	7.07	
		<i>For Up To 50, Add</i>		1.47	
		<i>For >50 To 150, Add</i>		1.10	
		<i>For >150 To 250, Add</i>		0.73	
		<i>For >250 To 500, Add</i>		0.36	
50 89 83 19-0014	SY	CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	.....	3.43	
		<i>For Up To 50, Add</i>		0.73	
		<i>For >50 To 150, Add</i>		0.54	
		<i>For >150 To 250, Add</i>		0.36	
		<i>For >250 To 500, Add</i>		0.18	
50 89 83 19-0015	SY	CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3	.....	3.23	
		<i>For Up To 50, Add</i>		0.70	
		<i>For >50 To 150, Add</i>		0.52	
		<i>For >150 To 250, Add</i>		0.34	
		<i>For >250 To 500, Add</i>		0.17	
50 89 83 19-0016	SY	CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	.....	5.42	
		<i>For Up To 50, Add</i>		1.20	
		<i>For >50 To 150, Add</i>		0.89	
		<i>For >150 To 250, Add</i>		0.58	
		<i>For >250 To 500, Add</i>		0.29	
50 89 83 19-0017	SY	CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	.....	2.23	

50 89 83 20 LANDSCAPE (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF	CALTRANS 200114 ROCK BLANKET	.....	15.96	
		<i>For >5,000, Deduct</i>		-2.10	
50 89 83 20-0002	SY	CALTRANS 200122 WEED GERMINATION	.....	0.67	
50 89 83 20-0003	SY	CALTRANS 200123 CULTIVATION	.....	2.97	
50 89 83 20-0004	LB	CALTRANS 202004 IRON SULFATE (LB)	.....	7.65	
50 89 83 20-0005	CY	CALTRANS 202006 SOIL AMENDMENT	.....	121.62	
50 89 83 20-0006	EA	CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	.....	1,138.87	
50 89 83 20-0007	EA	CALTRANS 202027 RELOCATE WATER METER	.....	1,138.87	
50 89 83 20-0008	EA	CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER	.....	1,440.07	
50 89 83 20-0009	LB	CALTRANS 202037 ORGANIC FERTILIZER	.....	7.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0010 EA CALTRANS 202038 PACKET FERTILIZER.....	1.20	
50 89 83 20-0011 LB CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	3.85	
50 89 83 20-0012 EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	457.53	
50 89 83 20-0013 EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	851.45	
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B).....	1,323.50	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B).....	2,066.50	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E).....	4.36	
For >100 To 1,000, Deduct	-0.25	
For >1,000 To 5,000, Deduct	-0.38	
For >5,000, Deduct	-0.49	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F).....	2.40	
For >100 To 1,000, Deduct	-0.15	
For >1,000 To 5,000, Deduct	-0.25	
For >5,000, Deduct	-0.31	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H).....	6.74	
For >10 To 100, Deduct	-0.67	
For >100 To 1,000, Deduct	-1.52	
For >1,000 To 10,000, Deduct	-2.36	
For >10,000 To 25,000, Deduct	-3.37	
For >25,000, Deduct	-4.72	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I).....	24.95	
For >100 To 1,000, Deduct	-1.70	
For >1,000 To 5,000, Deduct	-2.77	
For >5,000, Deduct	-3.40	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K).....	626.53	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M).....	8.31	
For >100 To 1,000, Deduct	-0.48	
For >1,000 To 5,000, Deduct	-0.76	
For >5,000, Deduct	-0.97	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S).....	9.26	
For >100 To 1,000, Deduct	-0.58	
For >1,000 To 5,000, Deduct	-0.93	
For >5,000, Deduct	-1.16	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P).....	7.86	
For >100 To 1,000, Deduct	-0.45	
For >1,000 To 5,000, Deduct	-0.70	
For >5,000, Deduct	-0.90	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE.....	4,072.81	
For >5 To 10, Deduct	-203.64	
For >10 To 20, Deduct	-407.28	
For >20, Deduct	-610.92	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A).....	33.73	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B).....	85.62	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U).....	223.80	
50 89 83 20-0028 SY CALTRANS 204045 SOD.....	20.84	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH.....	1.42	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE.....	1.54	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH.....	104.31	
For >5 To 20, Deduct	-8.89	
For >20 To 50, Deduct	-13.33	
For >50, Deduct	-18.55	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR.....	41.18	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR.....	29.15	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER.....	13.08	
50 89 83 20-0035 LF CALTRANS 206005 EDGING.....	17.83	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE.....	425.38	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE.....	686.29	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE.....	759.85	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE.....	839.71	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE.....	944.87	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE.....	1,523.42	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE.....	2,101.96	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR.....	1,060.17	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY.....	344.32	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY.....	373.70	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY.....	416.99	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY.....	442.83	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY.....	528.71	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY.....	803.34	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY.....	967.36	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	990.09	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,362.20	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,795.06	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,288.55	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,056.60	
50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,820.83	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE).....	12.26	
For >1,000, Deduct	-0.61	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE).....	16.84	
For >1,000, Deduct	-0.84	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE).....	21.28	
For >1,000, Deduct	-1.06	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE).....	27.32	
For >1,000, Deduct	-1.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 89 83 20-0061	LF		CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE).....	33.33	
			<i>For >1,000, Deduct</i>	-1.67	
50 89 83 20-0062	LF		CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE).....	46.28	
			<i>For >1,000, Deduct</i>	-2.31	
50 89 83 20-0063	LF		CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	92.25	
			<i>For >1,000, Deduct</i>	-4.61	
50 89 83 20-0064	LF		CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	151.38	
			<i>For >1,000, Deduct</i>	-7.57	
50 89 83 20-0065	LF		CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	64.45	
			<i>For >1,000, Deduct</i>	-3.22	
50 89 83 20-0066	LF		CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	14.10	
			<i>For >1,000, Deduct</i>	-0.71	
50 89 83 20-0067	LF		CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	16.50	
			<i>For >1,000, Deduct</i>	-0.83	
50 89 83 20-0068	LF		CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	19.93	
			<i>For >1,000, Deduct</i>	-1.00	
50 89 83 20-0069	LF		CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	23.94	
			<i>For >1,000, Deduct</i>	-1.20	
50 89 83 20-0070	LF		CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	27.98	
			<i>For >1,000, Deduct</i>	-1.40	
50 89 83 20-0071	LF		CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	35.66	
			<i>For >1,000, Deduct</i>	-1.78	
50 89 83 20-0072	LF		CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	54.50	
			<i>For >1,000, Deduct</i>	-2.73	
50 89 83 20-0073	LF		CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	75.16	
			<i>For >1,000, Deduct</i>	-3.76	
50 89 83 20-0074	LF		CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	112.38	
			<i>For >1,000, Deduct</i>	-5.62	
50 89 83 20-0075	LF		CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	58.93	
50 89 83 20-0076	LF		CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	75.97	
50 89 83 20-0077	LF		CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	95.01	
50 89 83 20-0078	LF		CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	141.89	
50 89 83 20-0079	LF		CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	379.73	
50 89 83 20-0080	LF		CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	878.00	
50 89 83 20-0081	LF		CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	42.32	
50 89 83 20-0082	LF		CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	61.69	
50 89 83 20-0083	LF		CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	76.73	
50 89 83 20-0084	LF		CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	115.07	
50 89 83 20-0085	LF		CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.81	
50 89 83 20-0086	LF		CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	3.03	
50 89 83 20-0087	EA		CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	3,887.95	
50 89 83 20-0088	EA		CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	2,141.12	
50 89 83 20-0089	EA		CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	2,264.82	
50 89 83 20-0090	EA		CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	2,979.34	
50 89 83 20-0091	EA		CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	3,248.96	
50 89 83 20-0092	EA		CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	4,317.66	
50 89 83 20-0093	EA		CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	9,645.39	
50 89 83 20-0094	EA		CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	11,187.32	
50 89 83 20-0095	EA		CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	12,129.66	
50 89 83 20-0096	EA		CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	3,010.02	
50 89 83 20-0097	EA		CALTRANS 208442 FLOW SENSOR.....	1,719.13	
50 89 83 20-0098	EA		CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	100.79	13.67
50 89 83 20-0099	EA		CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	60.82	13.67
50 89 83 20-0100	EA		CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	59.66	13.67
50 89 83 20-0101	EA		CALTRANS 208562 CAM COUPLER ASSEMBLY.....	469.38	
50 89 83 20-0102	EA		CALTRANS 208569 1/2" GATE VALVE.....	310.74	
50 89 83 20-0103	EA		CALTRANS 208570 3/4" GATE VALVE.....	330.52	
50 89 83 20-0104	EA		CALTRANS 208572 1" GATE VALVE.....	361.13	
50 89 83 20-0105	EA		CALTRANS 208573 1 1/4" GATE VALVE.....	398.52	
50 89 83 20-0106	EA		CALTRANS 208574 1 1/2" GATE VALVE.....	424.93	
50 89 83 20-0107	EA		CALTRANS 208575 2" GATE VALVE.....	484.20	
50 89 83 20-0108	EA		CALTRANS 208576 2 1/2" GATE VALVE.....	784.10	
50 89 83 20-0109	EA		CALTRANS 208588 3" GATE VALVE.....	1,188.57	
50 89 83 20-0110	EA		CALTRANS 208589 4" GATE VALVE.....	1,591.37	
50 89 83 20-0111	EA		CALTRANS 208590 6" GATE VALVE.....	2,241.73	
50 89 83 20-0112	EA		CALTRANS 208591 8" GATE VALVE.....	3,371.28	
50 89 83 20-0113	LF		CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.01	
			<i>For >1,000, Deduct</i>	-0.35	
			<i>For Schedule 80, Add</i>	0.30	
50 89 83 20-0114	LF		CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.31	
			<i>For >1,000, Deduct</i>	-0.37	
			<i>For Schedule 80, Add</i>	0.37	
50 89 83 20-0115	LF		CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.40	
			<i>For >1,000, Deduct</i>	-0.42	
			<i>For Schedule 80, Add</i>	0.60	
50 89 83 20-0116	LF		CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	10.02	
			<i>For >1,000, Deduct</i>	-0.50	
			<i>For Schedule 80, Add</i>	0.89	
50 89 83 20-0117	LF		CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	10.39	
			<i>For >1,000, Deduct</i>	-0.52	
			<i>For Schedule 80, Add</i>	1.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	12.49	
<i>For >1,000, Deduct</i>	-0.62	
<i>For Schedule 80, Add</i>	2.01	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	15.69	
<i>For >1,000, Deduct</i>	-0.78	
<i>For Schedule 80, Add</i>	2.61	
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	20.34	
<i>For >1,000, Deduct</i>	-1.02	
<i>For Schedule 80, Add</i>	3.65	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	26.20	
<i>For >1,000, Deduct</i>	-1.31	
<i>For Schedule 80, Add</i>	5.58	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	37.75	
<i>For >1,000, Deduct</i>	-1.89	
<i>For Schedule 80, Add</i>	12.43	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	48.32	
<i>For >1,000, Deduct</i>	-2.42	
<i>For Schedule 80, Add</i>	19.06	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	112.19	
<i>For >1,000, Deduct</i>	-5.61	
<i>For Schedule 80, Add</i>	59.26	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	13.52	
<i>For >1,000, Deduct</i>	-0.68	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	17.38	
<i>For >1,000, Deduct</i>	-0.87	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	20.34	
<i>For >1,000, Deduct</i>	-1.02	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	26.20	
<i>For >1,000, Deduct</i>	-1.31	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	38.50	
<i>For >1,000, Deduct</i>	-1.93	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE.....	927.19	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE.....	1,374.86	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE.....	1,098.40	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE.....	1,558.17	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4").....	285.27	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1").....	374.68	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4").....	640.55	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2").....	868.83	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2").....	1,245.55	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE.....	579.41	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE.....	325.38	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE.....	348.84	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE.....	380.20	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE.....	428.47	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE.....	477.76	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE.....	544.23	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE.....	848.07	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE.....	1,248.01	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE.....	1,834.94	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE.....	2,754.27	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE.....	5,933.00	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE.....	293.10	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE.....	321.84	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE.....	333.26	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE.....	370.80	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE.....	390.83	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE.....	430.36	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE.....	482.41	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE).....	48.32	
<i>For >1,000, Deduct</i>	-2.42	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT.....	56.98	
<i>For >1,000, Deduct</i>	-2.85	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT.....	83.48	
<i>For >1,000, Deduct</i>	-4.17	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	27.43	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	35.31	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	40.80	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	31.92	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	39.99	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	49.64	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	54.78	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT.....	31.64	
<i>For >1,000, Deduct</i>	-1.58	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT.....	38.02	
<i>For >1,000, Deduct</i>	-1.90	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT.....	44.25	
<i>For >1,000, Deduct</i>	-2.21	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT.....	65.15	
<i>For >1,000, Deduct</i>	-3.26	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT.....	92.64	
<i>For >1,000, Deduct</i>	-4.63	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	139.00	
<i>For >1,000, Deduct</i>	-6.95	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	202.51	
<i>For >1,000, Deduct</i>	-10.13	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	273.91	
<i>For >1,000, Deduct</i>	-13.70	
50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT	353.67	
<i>For >1,000, Deduct</i>	-17.68	
50 89 83 21 EROSION CONTROL (50 89 83)		
Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.		
50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL)	370.55	
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY)	67.14	
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON)	83.90	
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT)	0.11	
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE)	4,706.25	
<i>For >5 To 20, Deduct</i>	-333.31	
<i>For >20 To 45, Deduct</i>	-646.96	
<i>For >45, Deduct</i>	-1,058.60	
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD)	0.38	
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE)	1,836.56	
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT)	0.10	
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE)	4,378.90	
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH)	0.66	
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING)	2.11	
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET)	0.69	
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM)	1.62	
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH	0.09	
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL	10.18	
Note: 12" Diameter, Type 1		
<i>For >1,000 To 10,000, Deduct</i>	-1.00	
<i>For >10,000, Deduct</i>	-1.70	
<i>For 9" Diameter, Deduct</i>	-1.80	
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL	8.36	
Note: 12" Diameter, Type 2		
<i>For >1,000 To 10,000, Deduct</i>	-0.72	
<i>For >10,000, Deduct</i>	-1.24	
<i>For 9" Diameter, Deduct</i>	-1.80	
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK	11.56	
50 89 83 21-0018 SF CALTRANS 210420 STRAW	0.18	
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED	0.09	
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY)	93.90	
<i>For >100 To 1,000, Deduct</i>	-15.72	
<i>For >1,000, Deduct</i>	-24.09	
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS	0.06	
50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)		
50 89 84 24 STABILIZED SOILS (50 89 84)		
50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL	11.89	
<i>For 4% Lime Instead Of 5%, Deduct</i>	-0.33	
<i>For 6% Lime Instead Of 5%, Add</i>	0.33	
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL	11.51	
50 89 84 25 AGGREGATE SUBBASES (50 89 84)		
Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE	108.67	
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE	111.39	
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE	106.65	
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE	106.59	
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE	106.53	
50 89 84 26 AGGREGATE BASES (50 89 84)		
Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE	107.97	
<i>For Recycled Aggregate Base, Deduct</i>	-6.38	
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON)	114.35	
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY)	111.39	
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON)	107.87	
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY)	106.65	
50 89 84 27 CEMENT TREATED BASES (50 89 84)		
Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON)	53.26	
<i>For Up To 500, Add</i>	15.69	
<i>For >500 To 1,000, Add</i>	5.33	
<i>For >5,000 To 10,000, Deduct</i>	-2.02	
<i>For >10,000, Deduct</i>	-3.46	
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY)	72.03	
<i>For Up To 500, Add</i>	21.24	
<i>For >500 To 1,000, Add</i>	7.20	
<i>For >5,000 To 10,000, Deduct</i>	-2.74	
<i>For >10,000, Deduct</i>	-4.68	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON)	43.57	
<i>For Up To 500, Add</i>	12.79	
<i>For >500 To 1,000, Add</i>	4.36	
<i>For >5,000 To 10,000, Deduct</i>	-1.66	
<i>For >10,000, Deduct</i>	-2.83	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY)	62.33	
<i>For Up To 500, Add</i>	18.33	
<i>For >500 To 1,000, Add</i>	6.23	
<i>For >5,000 To 10,000, Deduct</i>	-2.37	
<i>For >10,000, Deduct</i>	-4.05	
50 89 84 28 CONCRETE BASES <small>(50 89 84)</small>		
Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE	247.75	
50 89 84 29 TREATED PERMEABLE BASES <small>(50 89 84)</small>		
Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE	974.00	
<i>For >5,000 To 30,000, Deduct</i>	-103.69	
<i>For >30,000 To 100,000, Deduct</i>	-189.33	
<i>For >100,000, Deduct</i>	-235.13	
50 89 84 30 RECLAIMED PAVEMENT <small>(50 89 84)</small>		
Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT	24.04	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED	5.30	
50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS <small>(50 89 80)</small>		
50 89 85 37 BITUMINOUS SEALS <small>(50 89 85)</small>		
Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL)	1.46	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT)	0.85	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT	6,669.88	
50 89 85 37-0004 SY CALTRANS 374491 NON-POLYMER ASPHALTIC EMULSION (SEAL COAT)	4.72	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT)	9.79	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS	77.31	
<i>For Up To 14, Add</i>	21.06	
<i>For >14 To 35, Add</i>	7.73	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL)	1.05	
<i>For Up To 150, Add</i>	0.23	
<i>For >150 To 300, Add</i>	0.11	
<i>For >300 To 500, Add</i>	0.05	
<i>For >3,500 To 5,000, Deduct</i>	-0.03	
<i>For >5,000, Deduct</i>	-0.07	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I)	3.00	
Note: 1/8" thick.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.30	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II)	3.96	
Note: 1/4" thick, 14 to 18 Lbs/SY.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.45	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III)	5.13	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.73	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING	10.53	
50 89 85 39 ASPHALT CONCRETE <small>(50 89 85)</small>		
Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT	1,415.97	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (Up To 25)	171.99	
50 89 85 39-0003 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>25 To 100)	162.33	
50 89 85 39-0004 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>100-250)	147.12	
50 89 85 39-0005 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>250)	139.75	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25)	271.77	
50 89 85 39-0007 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100)	237.62	
50 89 85 39-0008 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250)	203.98	
50 89 85 39-0009 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250)	173.10	

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50 89 CALTRANS Custom Standards And Assemblies

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0010	TON		CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25)	280.14	
50 89 85 39-0011	TON		CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	174.09	
			Note: Includes placement, rolling, finishing and sweeping.		
50 89 85 39-0012	SY		CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	2.10	
			Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Non-woven Polypropylene		
			For Up To 50, Add	0.46	
			For >50 To 150, Add	0.34	
			For >150 To 250, Add	0.22	
			For >250 To 500, Add	0.11	
50 89 85 39-0013	LF		CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B)	9.56	
50 89 85 39-0014	LF		CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A)	7.00	
50 89 85 39-0015	LF		CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C)	3.77	
50 89 85 39-0016	LF		CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D)	15.28	
50 89 85 39-0017	LF		CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E)	9.89	
50 89 85 39-0018	LF		CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....	5.51	
50 89 85 39-0019	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2"	16.40	
			For Up To 500, Add	2.61	
			For >500 To 1,000, Add	1.49	
			For >5,000 To 10,000, Deduct	-0.66	
			For >10,000 To 24,000, Deduct	-1.21	
			For >24,000 To 48,000, Deduct	-1.87	
			For >48,000, Deduct	-2.69	
50 89 85 39-0020	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3".....	22.83	
			For Up To 300, Add	3.41	
			For >300 To 600, Add	2.75	
			For >3,000 To 6,000, Deduct	-0.95	
			For >6,000 To 16,000, Deduct	-1.74	
			For >16,000 To 32,000, Deduct	-2.69	
			For >32,000, Deduct	-3.88	
50 89 85 39-0021	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4".....	30.92	
			For Up To 250, Add	4.30	
			For >250 To 500, Add	2.38	
			For >2,500 To 5,000, Deduct	-1.35	
			For >5,000 To 12,000, Deduct	-2.45	
			For >12,000 To 24,000, Deduct	-3.79	
			For >24,000, Deduct	-5.45	
50 89 85 39-0022	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6".....	46.40	
			For Up To 160, Add	6.45	
			For >160 To 320, Add	3.58	
			For >1,600 To 3,200, Deduct	-2.02	
			For >3,200 To 8,000, Deduct	-3.67	
			For >8,000 To 16,000, Deduct	-5.69	
			For >16,000, Deduct	-8.17	
50 89 85 39-0023	TON		CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	174.09	
50 89 85 39-0024	TON		CALTRANS 397005 TACK COAT	856.91	
50 89 85 39-0025	SF		CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY).....	200.47	
			For >500 To 1,000, Deduct	-20.05	
			For >1,000 To 2,500, Deduct	-36.08	
			For >2,500 To 5,000, Deduct	-52.12	
			For >5,000 To 10,000, Deduct	-68.16	
			For >10,000, Deduct	-84.20	
50 89 85 39-0026	SF		CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT)	3.40	
			For >500 To 1,000, Deduct	-0.34	
			For >1,000 To 2,500, Deduct	-0.61	
			For >2,500 To 5,000, Deduct	-0.88	
			For >5,000 To 10,000, Deduct	-1.16	
			For >10,000, Deduct	-1.43	
50 89 85 39-0027	LF		CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....	5.61	
50 89 85 39-0028	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....	4.76	
			For Up To 2,500, Add	3.57	
			For >2,500 To 5,000, Add	1.19	
			For >10,000 To 25,000, Deduct	-0.48	
			For >25,000, Deduct	-0.71	
50 89 85 39-0029	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....	6.34	
			For Up To 2,500, Add	4.76	
			For >2,500 To 5,000, Add	1.59	
			For >10,000 To 25,000, Deduct	-0.63	
			For >25,000, Deduct	-0.95	
50 89 85 40			CONCRETE PAVEMENT <small>(50 89 85)</small>		
			Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 40-0001	CY		CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	379.22	
			For >1,000 To 5,000, Deduct	-18.46	
			For >5,000, Deduct	-46.65	
50 89 85 40-0002	CY		CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT	365.23	
			For >1,000 To 5,000, Deduct	-18.46	
			For >5,000, Deduct	-45.95	
50 89 85 41			EXISTING CONCRETE PAVEMENT <small>(50 89 85)</small>		
			Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.		
50 89 85 41-0001	EA		CALTRANS 410096 DRILL AND BOND (DOWEL BAR).....	31.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0002 SY CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	411.89	
<i>For Up To 100, Add</i>	576.52	
<i>For >100 To 250, Add</i>	288.26	
50 89 85 41-0003 LF CALTRANS 414220 REPLACE JOINT SEAL (ASPHALT RUBBER).....	9.22	
50 89 85 41-0004 LF CALTRANS 414221 REPLACE JOINT SEAL (SILICONE).....	8.85	
50 89 85 41-0005 LF CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	15.88	
50 89 85 41-0006 LF CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	18.86	
50 89 85 41-0007 LF CALTRANS 414224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	37.73	
50 89 85 41-0008 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	12.94	
50 89 85 41-0009 LF CALTRANS 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	13.48	
50 89 85 41-0010 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER.....	60.56	
<i>For Up To 100, Add</i>	24.19	
<i>For >100 To 250, Add</i>	13.61	
<i>For >250 To 500, Add</i>	6.81	
<i>For >1,000 To 2,000, Deduct</i>	-1.52	
<i>For >2,000 To 5,000, Deduct</i>	-3.03	
<i>For >5,000 To 10,000, Deduct</i>	-4.55	
<i>For >10,000 To 20,000, Deduct</i>	-6.06	
<i>For >20,000, Deduct</i>	-7.57	
50 89 85 41-0011 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	49.62	
50 89 85 41-0012 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	24.30	
<i>For >500 To 1,000, Deduct</i>	-2.43	
<i>For >1,000 To 2,500, Deduct</i>	-4.37	
<i>For >2,500 To 5,000, Deduct</i>	-6.32	
<i>For >5,000 To 10,000, Deduct</i>	-8.26	
<i>For >10,000, Deduct</i>	-10.21	
50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRANS Standard.		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.82	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	2.74	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	4.76	
<i>For Up To 2,500, Add</i>	3.57	
<i>For >2,500 To 5,000, Add</i>	1.19	
<i>For >10,000 To 25,000, Deduct</i>	-0.48	
<i>For >25,000, Deduct</i>	-0.71	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	30.07	
<i>For >100 To 1,000, Deduct</i>	-15.04	
<i>For >1,000, Deduct</i>	-22.55	
50 89 86 CALTRANS DIVISION VI - STRUCTURES (50 89 86)		
50 89 86 47 EARTH RETAINING SYSTEMS (50 89 86)		
50 89 86 47-0001 SF CALTRANS 475010 RETAINING WALL (MASONRY WALL).....	67.85	9.22
<i>For >3:1 Sloped Soil At Top, Add</i>	4.20	
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES (50 89 86)		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	19.27	24.75
50 89 86 60 EXISTING STRUCTURES (50 89 86)		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1").....	129.48	
<i>For Horizontal Cores, Add</i>	25.59	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	51.17	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2").....	159.48	
<i>For Horizontal Cores, Add</i>	31.59	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	63.17	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3").....	175.08	
<i>For Horizontal Cores, Add</i>	34.59	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.18	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4").....	233.36	
<i>For Horizontal Cores, Add</i>	46.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	92.23	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5").....	268.74	
<i>For Horizontal Cores, Add</i>	53.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	106.13	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6").....	303.49	
<i>For Horizontal Cores, Add</i>	60.01	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	120.03	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7").....	397.12	
<i>For Horizontal Cores, Add</i>	78.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.98	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8").....	489.52	
<i>For Horizontal Cores, Add</i>	96.97	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	193.94	
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9").....	56.50	
<i>For Horizontal Cores, Add</i>	10.06	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.12	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10").....	527.38	
<i>For Horizontal Cores, Add</i>	104.24	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	208.47	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12").....	607.59	
For Horizontal Cores, Add	120.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	240.06	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2").....	143.69	
For Horizontal Cores, Add	28.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.86	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2").....	167.57	
For Horizontal Cores, Add	33.09	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.17	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES (50 89 80)		
50 89 87 64 PLASTIC PIPE (50 89 87)		
Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 64-0001 LF CALTRANS 641101 12" PLASTIC PIPE	68.17	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0002 LF CALTRANS 641104 15" PLASTIC PIPE	87.51	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0003 LF CALTRANS 641107 18" PLASTIC PIPE	115.46	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0004 LF CALTRANS 641110 21" PLASTIC PIPE	137.57	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0005 LF CALTRANS 641113 24" PLASTIC PIPE	163.56	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0006 LF CALTRANS 641119 30" PLASTIC PIPE	243.84	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0007 LF CALTRANS 641125 36" PLASTIC PIPE	297.11	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0008 LF CALTRANS 641128 42" PLASTIC PIPE	335.48	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 64-0009 LF CALTRANS 641131 48" PLASTIC PIPE	408.53	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65 CONCRETE PIPE (50 89 87)		
Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 65-0001 LF CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	65.06	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.25	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0002 LF CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	80.87	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.04	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0003 LF CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	92.70	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.64	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0004 LF CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	119.32	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0005 LF CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	137.94	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.90	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0006 LF CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	170.26	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-8.51	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0007 LF CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	182.04	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-9.10	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0008 LF CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	203.09	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-10.15	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	223.97	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-11.20	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	288.16	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-14.41	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	345.40	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-17.27	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	424.28	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-21.21	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	508.89	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-25.44	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	753.52	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-37.68	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	874.36	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-43.72	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	1,043.18	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-52.16	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,325.94	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-66.30	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,616.34	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-80.82	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	90.76	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-4.54	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	178.14	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-8.91	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	198.50	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-9.93	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	218.68	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-10.93	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	65.06	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.25	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	80.87	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.04	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	92.70	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.64	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	137.94	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.90	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	170.26	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.51	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	182.04	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.10	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	223.97	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.20	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	288.16	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	424.28	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.21	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	67.80	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	84.38	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.22	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	96.39	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.82	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	143.37	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	189.45	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.47	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	234.01	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.70	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	363.43	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	447.69	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0040 LF CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV)	537.68	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-26.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0041 LF CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V)	70.83	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.54	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0042 LF CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V)	100.47	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.02	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V)	149.36	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.47	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V)	182.04	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.10	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V)	245.11	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.26	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V)	288.16	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V)	473.55	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-23.68	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V)	508.89	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-25.44	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V)	874.36	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-43.72	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	65.64	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.28	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	139.08	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	67.23	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.36	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	95.61	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.78	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0054 LF CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	123.11	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.16	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0055 LF CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	142.22	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.11	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	187.89	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0057	LF		CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....231.90 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-11.60	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0058	LF		CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....299.63 Note: Includes 1.53 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-14.98	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0059	LF		CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....359.63 Note: Includes 1.78 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-17.98	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0060	LF		CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....921.16 Note: Includes 2.96 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-46.06	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0061	LF		CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....148.05 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-7.40	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0062	LF		CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....195.84 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-9.79	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0063	LF		CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....242.68 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-12.13	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0064	LF		CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....315.24 Note: Includes 1.53 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-15.76	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0065	LF		CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....846.56 Note: Includes 2.64 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-42.33	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0066	LF		CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....156.35 Note: Includes 0.64 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-7.82	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0067	LF		CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....193.50 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-9.68	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0068	LF		CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....257.33 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-12.87	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0069	LF		CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II).....269.79 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-13.49	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0070	LF		CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III).....462.66 Note: Includes 1.78 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-23.13	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0071	LF		CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE.....84.94 Note: Includes 0.64 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-4.25	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0072	LF		CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE.....126.52 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-6.33	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 65-0073	LF		CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE.....166.45 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			<i>For >1,000, Deduct</i>	-8.32	
			<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93	
			<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0074	LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE	.....	202.82	
	Note: Includes 1.30 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-10.14	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66	CORRUGATED METAL PIPE ^(50 89 87)			
	Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.			
50 89 87 66-0001	LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK)	.....	32.50	
	Note: Includes 0.29 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0002	LF CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK)	.....	35.49	
	Note: Includes 0.29 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0003	LF CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK)	.....	43.72	
	Note: Includes 0.29 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0004	LF CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK)	.....	47.64	
	Note: Includes 0.29 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0005	LF CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK)	.....	53.92	
	Note: Includes 0.32 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0006	LF CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK)	.....	57.12	
	Note: Includes 0.32 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0007	LF CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK)	.....	59.54	
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0008	LF CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK)	.....	64.66	
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0009	LF CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK)	.....	75.62	
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0010	LF CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK)	.....	81.93	
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0011	LF CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK)	.....	94.94	
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0012	LF CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK)	.....	89.20	
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0013	LF CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK)	.....	96.83	
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0014	LF CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK)	.....	112.61	
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0015	LF CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK)	.....	106.03	
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0016	LF CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK)	.....	114.84	
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0017	LF CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK)	.....	133.18	
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 66-0018	LF CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK)	.....	117.68	
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.93	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0040	LF			CALTRANS 665048 48" CORRUGATED STEEL PIPE (.138" THICK) 375.30 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0041	LF			CALTRANS 665049 48" CORRUGATED STEEL PIPE (.168" THICK) 420.21 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0042	LF			CALTRANS 665050 54" CORRUGATED STEEL PIPE (.079" THICK) 364.17 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0043	LF			CALTRANS 665051 54" CORRUGATED STEEL PIPE (.109" THICK) 409.01 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0044	LF			CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) 451.70 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0045	LF			CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) 504.89 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0046	LF			CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) 474.42 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0047	LF			CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) 521.94 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0048	LF			CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) 580.35 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0049	LF			CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) 570.30 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0050	LF			CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) 622.52 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0051	LF			CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) 764.79 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0052	LF			CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) 838.81 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0053	LF			CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) 905.31 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0054	LF			CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) 968.84 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0055	LF			CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) 1,080.07 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0056	LF			CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) 1,037.02 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0057	LF			CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) 1,102.64 Note: Includes 4.44 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0058	LF			CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) 125.70 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0059	LF			CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 138.03 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0060	LF			CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) 38.83 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0061	LF			CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) 48.09 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.93 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0105	LF		CALTRANS 665158 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....615.42 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0106	LF		CALTRANS 665159 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....676.51 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0107	LF		CALTRANS 665160 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....760.68 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0108	LF		CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....838.63 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0109	LF		CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....927.44 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0110	LF		CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....1,029.37 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0111	LF		CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....998.99 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0112	LF		CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....1,109.06 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0113	LF		CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....1,069.95 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0114	LF		CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....1,203.43 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0115	LF		CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....1,144.36 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0116	LF		CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....213.13 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0117	LF		CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK).....155.72 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0118	LF		CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....173.55 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0119	LF		CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....292.77 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0120	LF		CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....140.06 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0121	LF		CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK).....277.75 Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0122	LF		CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....242.73 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0123	LF		CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....60.35 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0124	LF		CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....64.52 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	
50 89 87 66-0125	LF		CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....77.50 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	0.93 1.37	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0126	LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	109.29		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0127	LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	118.85		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0128	LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	200.66		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0129	LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	119.09		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0130	LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	127.56		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0131	LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	66.28		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0132	LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	71.44		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0133	LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	122.89		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0134	LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	134.75		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0135	LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	171.81		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0136	LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	200.84		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0137	LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	141.65		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0138	LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	236.37		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0139	LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	85.33		
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0140	LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	104.45		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0141	LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	120.11		
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0142	LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	123.24		
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0143	LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	141.69		
	Note: Includes 0.80 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0144	LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	131.61		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0145	LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	159.36		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		
50 89 87 66-0146	LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	177.66		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0147	LF		CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	183.07	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0148	LF		CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	208.85	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0149	LF		CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	231.89	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0150	LF		CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	229.36	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0151	LF		CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	259.85	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0152	LF		CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	288.55	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0153	LF		CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	268.89	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0154	LF		CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	304.07	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0155	LF		CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	337.54	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0156	LF		CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	323.75	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0157	LF		CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	355.00	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0158	LF		CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	392.93	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0159	LF		CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	378.43	
			Note: Includes 2.05 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0160	LF		CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	412.94	
			Note: Includes 2.05 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0161	LF		CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	483.16	
			Note: Includes 2.33 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0162	LF		CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	526.34	
			Note: Includes 2.33 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0163	LF		CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	801.59	
			Note: Includes 2.64 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0164	LF		CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK)	173.75	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0165	LF		CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK)	356.60	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0166	LF		CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	64.66	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0167	LF		CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	89.20	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0168	LF		CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	96.83	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.93	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0169	LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....	112.61		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 66-0170	LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	48.09		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 66-0171	LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	140.06		
	Note: Includes 0.89 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 67	STRUCTURAL PLATE CULVERTS <small>(50 89 87)</small>			
	Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.			
50 89 87 67-0001	LF CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK)	937.46		
	Note: Includes 4.05 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 67-0002	LF CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	1,024.15		
	Note: Includes 5.30 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 67-0003	LF CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	1,136.04		
	Note: Includes 6.22 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 67-0004	LF CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK).....	1,306.20		
	Note: Includes 0.32 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68	SUBSURFACE DRAINS <small>(50 89 87)</small>			
	Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.			
50 89 87 68-0001	LF CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	33.10		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68-0002	LF CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	44.56		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68-0003	LF CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	48.67		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68-0004	LF CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	63.23		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68-0005	LF CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	68.62		
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 68-0006	LF CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	53.27		
	<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.93		
	<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37		
50 89 87 69	OVERSIDE DRAINS <small>(50 89 87)</small>			
	Note: Includes constructing overside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.			
50 89 87 69-0001	LF CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	34.90		
50 89 87 69-0002	LF CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	42.74		
50 89 87 69-0003	LF CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	46.66		
50 89 87 69-0004	LF CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN	56.32		
50 89 87 69-0005	LF CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	57.90		
50 89 87 69-0006	LF CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	63.02		
50 89 87 69-0007	LF CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	79.71		
50 89 87 69-0008	LF CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	92.73		
50 89 87 69-0009	LF CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	86.66		
50 89 87 69-0010	LF CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	94.28		
50 89 87 69-0011	LF CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	110.06		
50 89 87 69-0012	LF CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	113.10		
50 89 87 69-0013	LF CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	123.34		
50 89 87 69-0014	LF CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	144.24		
50 89 87 69-0015	LF CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	161.79		
50 89 87 69-0016	LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	165.01		
50 89 87 69-0017	LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	190.85		
50 89 87 69-0018	LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	213.17		
50 89 87 69-0019	LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	217.51		
50 89 87 69-0020	LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	248.18		
50 89 87 69-0021	LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	276.88		
50 89 87 69-0022	LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	287.23		
50 89 87 69-0023	LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	325.13		
50 89 87 69-0024	LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	363.23		
50 89 87 69-0025	LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	395.89		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 87 69-0026	LF	CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	47.11	
50 89 87 69-0027	LF	CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	51.05	
50 89 87 69-0028	LF	CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	63.71	
50 89 87 69-0029	LF	CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	68.85	
50 89 87 69-0030	LF	CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	95.41	
50 89 87 69-0031	LF	CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	103.12	
50 89 87 69-0032	LF	CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	120.19	
50 89 87 69-0033	LF	CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	124.87	
50 89 87 69-0034	LF	CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	135.23	
50 89 87 69-0035	LF	CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	157.80	
50 89 87 69-0036	LF	CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	178.31	
50 89 87 69-0037	LF	CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	180.29	
50 89 87 69-0038	LF	CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	208.10	
50 89 87 69-0039	LF	CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	221.59	
50 89 87 69-0040	LF	CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	269.50	
50 89 87 69-0041	LF	CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	304.01	
50 89 87 69-0042	LF	CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	312.22	
50 89 87 69-0043	LF	CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	353.35	
50 89 87 69-0044	LF	CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	234.18	
50 89 87 69-0045	LF	CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	90.92	
50 89 87 69-0046	LF	CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	135.67	
50 89 87 69-0047	LF	CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	128.34	
50 89 87 69-0048	LF	CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	168.73	
50 89 87 69-0049	LF	CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	274.34	
50 89 87 69-0050	LF	CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	457.00	
50 89 87 69-0051	LF	CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN	66.54	
50 89 87 69-0052	LF	CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN	112.91	
50 89 87 69-0053	EA	CALTRANS 692303 8" ANCHOR ASSEMBLY	638.77	
50 89 87 69-0054	EA	CALTRANS 692305 12" ANCHOR ASSEMBLY	794.15	
50 89 87 69-0055	EA	CALTRANS 692306 15" ANCHOR ASSEMBLY	888.97	
50 89 87 69-0056	EA	CALTRANS 692307 18" ANCHOR ASSEMBLY	990.71	
50 89 87 69-0057	EA	CALTRANS 692309 24" ANCHOR ASSEMBLY	1,216.03	
50 89 87 69-0058	EA	CALTRANS 692311 30" ANCHOR ASSEMBLY	1,457.90	
50 89 87 69-0059	EA	CALTRANS 692313 36" ANCHOR ASSEMBLY	1,699.96	
50 89 87 69-0060	EA	CALTRANS 692319 54" ANCHOR ASSEMBLY	2,428.54	

50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)

50 89 87 70-0001	LF	CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK)	223.59	
50 89 87 70-0002	LF	CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK)	223.59	
50 89 87 70-0003	LF	CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK)	254.25	
50 89 87 70-0004	LF	CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK)	282.95	
50 89 87 70-0005	LF	CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK)	347.70	
50 89 87 70-0006	LF	CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK)	337.20	
50 89 87 70-0007	LF	CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK)	375.30	
50 89 87 70-0008	LF	CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK)	227.67	
50 89 87 70-0009	LF	CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	240.96	
50 89 87 70-0010	LF	CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK)	275.58	
50 89 87 70-0011	LF	CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK)	310.08	
50 89 87 70-0012	LF	CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	365.42	
50 89 87 70-0013	LF	CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK)	116.18	29.16
		<i>For >1,000, Deduct</i>	-5.81	
50 89 87 70-0014	LF	CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK)	162.75	31.81
		<i>For >1,000, Deduct</i>	-8.14	
50 89 87 70-0015	LF	CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK)	184.82	33.33
		<i>For >1,000, Deduct</i>	-9.24	
50 89 87 70-0016	LF	CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK)	262.82	43.73
		<i>For >1,000, Deduct</i>	-13.14	
50 89 87 70-0017	LF	CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK)	345.83	74.32
		<i>For >1,000, Deduct</i>	-17.29	
50 89 87 70-0018	LF	CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK)	379.00	74.32
		<i>For >1,000, Deduct</i>	-18.95	
50 89 87 70-0019	LF	CALTRANS 703575 24" WELDED STEEL PIPE (.250" THICK)	409.76	85.76
		<i>For >1,000, Deduct</i>	-20.49	
50 89 87 70-0020	LF	CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK)	482.93	85.76
		<i>For >1,000, Deduct</i>	-24.15	
50 89 87 70-0021	LF	CALTRANS 703598 30" WELDED STEEL PIPE (.250" THICK)	476.26	100.05
		<i>For >1,000, Deduct</i>	-23.81	
50 89 87 70-0022	LF	CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK)	560.94	100.05
		<i>For >1,000, Deduct</i>	-28.05	
50 89 87 70-0023	LF	CALTRANS 703618 36" WELDED STEEL PIPE (.250" THICK)	631.83	120.07
		<i>For >1,000, Deduct</i>	-31.59	
50 89 87 70-0024	LF	CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK)	748.68	120.07
		<i>For >1,000, Deduct</i>	-37.43	
50 89 87 70-0025	LF	CALTRANS 703644 42" WELDED STEEL PIPE (.250" THICK)	1,284.92	134.36
		<i>For >1,000, Deduct</i>	-64.25	
50 89 87 70-0026	LF	CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK)	1,284.92	134.36
		<i>For >1,000, Deduct</i>	-64.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0027 LF CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	1,475.65	151.52
For >1,000, Deduct	-73.78	
50 89 87 70-0028 LF CALTRANS 703755 8" COATED WELDED STEEL PIPE (.188" THICK)	129.23	29.16
For >1,000, Deduct	-6.46	
50 89 87 70-0029 LF CALTRANS 703757 10" COATED WELDED STEEL PIPE (.250" THICK)	177.29	31.81
For >1,000, Deduct	-8.86	
50 89 87 70-0030 LF CALTRANS 703760 12" COATED WELDED STEEL PIPE (.250" THICK)	184.82	33.33
For >1,000, Deduct	-9.24	
50 89 87 70-0031 LF CALTRANS 703762 18" COATED WELDED STEEL PIPE (.250" THICK)	287.44	43.73
For >1,000, Deduct	-14.37	
50 89 87 70-0032 LF CALTRANS 703763 18" COATED WELDED STEEL PIPE (.375" THICK)	370.46	74.32
For >1,000, Deduct	-18.52	
50 89 87 70-0033 LF CALTRANS 703764 20" COATED WELDED STEEL PIPE (.375" THICK)	406.37	74.32
For >1,000, Deduct	-20.32	
50 89 87 70-0034 LF CALTRANS 703765 24" COATED WELDED STEEL PIPE (.250" THICK)	424.30	85.76
For >1,000, Deduct	-21.22	
50 89 87 70-0035 LF CALTRANS 703767 30" COATED WELDED STEEL PIPE (.250" THICK)	517.30	100.05
For >1,000, Deduct	-25.87	
50 89 87 70-0036 LF CALTRANS 703768 30" COATED WELDED STEEL PIPE (.375" THICK)	601.99	100.05
For >1,000, Deduct	-30.10	
50 89 87 70-0037 LF CALTRANS 703769 36" COATED WELDED STEEL PIPE (.250" THICK)	681.08	120.07
For >1,000, Deduct	-34.05	
50 89 87 70-0038 LF CALTRANS 703769 36" COATED WELDED STEEL PIPE (.375" THICK)	797.93	120.07
For >1,000, Deduct	-39.90	
50 89 87 70-0039 LF CALTRANS 703771 42" COATED WELDED STEEL PIPE (.250" THICK)	1,342.38	134.36
For >1,000, Deduct	-67.12	
50 89 87 70-0040 LF CALTRANS 703772 42" COATED WELDED STEEL PIPE (.375" THICK)	1,342.38	134.36
For >1,000, Deduct	-67.12	
50 89 87 70-0041 LF CALTRANS 703773 48" COATED WELDED STEEL PIPE (.375" THICK)	1,541.31	151.52
For >1,000, Deduct	-77.07	
50 89 87 70-0042 EA CALTRANS 705007 12" STEEL FLARED END SECTION	574.29	70.75
50 89 87 70-0043 EA CALTRANS 705009 15" STEEL FLARED END SECTION	669.09	75.81
50 89 87 70-0044 EA CALTRANS 705011 18" STEEL FLARED END SECTION	806.56	80.86
50 89 87 70-0045 EA CALTRANS 705013 21" STEEL FLARED END SECTION	1,011.79	88.44
50 89 87 70-0046 EA CALTRANS 705015 24" STEEL FLARED END SECTION	1,339.11	96.03
50 89 87 70-0047 EA CALTRANS 705016 27" STEEL FLARED END SECTION	1,687.31	96.03
50 89 87 70-0048 EA CALTRANS 705019 30" STEEL FLARED END SECTION	2,040.56	108.65
50 89 87 70-0049 EA CALTRANS 705023 36" STEEL FLARED END SECTION	3,510.92	129.89
50 89 87 70-0050 EA CALTRANS 705027 42" STEEL FLARED END SECTION	4,497.85	151.54
50 89 87 70-0051 EA CALTRANS 705031 48" STEEL FLARED END SECTION	6,463.97	173.19
50 89 87 70-0052 EA CALTRANS 705035 54" STEEL FLARED END SECTION	7,145.34	216.49
50 89 87 70-0053 EA CALTRANS 705037 60" STEEL FLARED END SECTION	9,647.53	259.79
50 89 87 70-0054 EA CALTRANS 705039 66" STEEL FLARED END SECTION	10,820.20	389.68
50 89 87 70-0055 EA CALTRANS 705041 72" STEEL FLARED END SECTION	12,579.13	519.57
50 89 87 70-0056 EA CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	677.00	70.75
50 89 87 70-0057 EA CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	791.68	75.81
50 89 87 70-0058 EA CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	954.64	80.86
50 89 87 70-0059 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	1,208.91	88.44
50 89 87 70-0060 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	1,610.92	96.03
50 89 87 70-0061 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	2,040.05	96.03
50 89 87 70-0062 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION	2,474.23	108.65
50 89 87 70-0063 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION	4,285.39	129.89
50 89 87 70-0064 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION	5,496.09	151.54
50 89 87 70-0065 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION	7,920.59	173.19
50 89 87 70-0066 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION	8,740.61	216.49
50 89 87 70-0067 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION	899.73	126.10
50 89 87 70-0068 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION	1,084.31	157.17
50 89 87 70-0069 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION	1,315.93	198.95
50 89 87 70-0070 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION	1,508.51	237.92
50 89 87 70-0071 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION	1,838.67	275.37
50 89 87 70-0072 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION	2,215.09	439.79
50 89 87 70-0073 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION	2,304.62	605.52
50 89 87 70-0074 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION	3,116.00	764.20
50 89 87 70-0075 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION	3,745.54	958.82
50 89 87 70-0076 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION	4,062.78	1,081.36
50 89 87 70-0077 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION	4,555.62	1,211.14
50 89 87 70-0078 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION	5,045.37	1,211.14
50 89 87 70-0079 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION	858.85	80.86
50 89 87 70-0080 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION	937.25	88.44
50 89 87 70-0081 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION	1,010.57	96.03
50 89 87 70-0082 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION	1,547.76	108.65
50 89 87 70-0083 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION	3,011.27	129.89
50 89 87 70-0084 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION	4,051.81	151.54
50 89 87 70-0085 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION	6,290.27	173.19
50 89 87 70-0086 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION	7,192.50	216.49
50 89 87 70-0087 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION	8,689.83	259.79

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0001	EA		CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE	442.15	
50 89 87 71-0002	LF		CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	54.82	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500 To 1,000, Deduct</i>	-4.88	
			<i>For >1,000 To 2,000, Deduct</i>	-7.32	
			<i>For >2,000 To 5,000, Deduct</i>	-9.76	
			<i>For >5,000, Deduct</i>	-12.20	
50 89 87 71-0003	CY		CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL	238.46	
50 89 87 71-0004	CY		CALTRANS 710370 SAND BACKFILL	59.19	
			<i>For Up To 10, Add</i>	15.97	
			<i>For >10 To 25, Add</i>	5.92	
50 89 87 71-0005	LF		CALTRANS 710372 8" CURED-IN-PLACE PIPELINER	83.99	
			<i>For >10 To 25, Add</i>	59.27	
			<i>For >25 To 50, Add</i>	38.91	
			<i>For >50 To 100, Add</i>	19.46	
			<i>For >500 To 1,000, Deduct</i>	-2.62	
			<i>For >1,000 To 2,000, Deduct</i>	-4.81	
			<i>For >2,000 To 5,000, Deduct</i>	-7.42	
			<i>For >5,000, Deduct</i>	-11.80	
50 89 87 71-0006	LF		CALTRANS 710374 10" CURED-IN-PLACE PIPELINER	119.13	
			<i>For >10 To 25, Add</i>	71.41	
			<i>For >25 To 50, Add</i>	47.88	
			<i>For >50 To 100, Add</i>	23.94	
			<i>For >500 To 1,000, Deduct</i>	-3.40	
			<i>For >1,000 To 2,000, Deduct</i>	-6.34	
			<i>For >2,000 To 5,000, Deduct</i>	-9.74	
			<i>For >5,000, Deduct</i>	-15.61	
50 89 87 71-0007	LF		CALTRANS 710376 12" CURED-IN-PLACE PIPELINER	141.89	
			<i>For >10 To 25, Add</i>	81.37	
			<i>For >25 To 50, Add</i>	54.90	
			<i>For >50 To 100, Add</i>	27.45	
			<i>For >500 To 1,000, Deduct</i>	-3.96	
			<i>For >1,000 To 2,000, Deduct</i>	-7.41	
			<i>For >2,000 To 5,000, Deduct</i>	-11.37	
			<i>For >5,000, Deduct</i>	-18.27	
50 89 87 71-0008	LF		CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	225.19	
			<i>For >10 To 25, Add</i>	108.32	
			<i>For >25 To 50, Add</i>	75.09	
			<i>For >50 To 100, Add</i>	37.55	
			<i>For >500 To 1,000, Deduct</i>	-5.78	
			<i>For >1,000 To 2,000, Deduct</i>	-10.97	
			<i>For >2,000 To 5,000, Deduct</i>	-16.75	
			<i>For >5,000, Deduct</i>	-27.14	
50 89 87 71-0009	LF		CALTRANS 710380 18" CURED-IN-PLACE PIPELINER	269.92	
			<i>For >10 To 25, Add</i>	126.25	
			<i>For >25 To 50, Add</i>	87.94	
			<i>For >50 To 100, Add</i>	43.97	
			<i>For >500 To 1,000, Deduct</i>	-6.84	
			<i>For >1,000 To 2,000, Deduct</i>	-13.02	
			<i>For >2,000 To 5,000, Deduct</i>	-19.85	
			<i>For >5,000, Deduct</i>	-32.22	
50 89 87 71-0010	LF		CALTRANS 710382 21" CURED-IN-PLACE PIPELINER	348.60	
			<i>For >10 To 25, Add</i>	150.83	
			<i>For >25 To 50, Add</i>	106.51	
			<i>For >50 To 100, Add</i>	53.26	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000 To 2,000, Deduct</i>	-16.35	
			<i>For >2,000 To 5,000, Deduct</i>	-24.88	
			<i>For >5,000, Deduct</i>	-40.52	
50 89 87 71-0011	LF		CALTRANS 710384 24" CURED-IN-PLACE PIPELINER	437.90	
			<i>For >10 To 25, Add</i>	178.96	
			<i>For >25 To 50, Add</i>	127.72	
			<i>For >50 To 100, Add</i>	63.86	
			<i>For >500 To 1,000, Deduct</i>	-10.46	
			<i>For >1,000 To 2,000, Deduct</i>	-20.14	
			<i>For >2,000 To 5,000, Deduct</i>	-30.60	
			<i>For >5,000, Deduct</i>	-49.97	
50 89 87 71-0012	LF		CALTRANS 710386 27" CURED-IN-PLACE PIPELINER	584.34	
			<i>For >10 To 25, Add</i>	226.59	
			<i>For >25 To 50, Add</i>	163.38	
			<i>For >50 To 100, Add</i>	81.69	
			<i>For >500 To 1,000, Deduct</i>	-13.65	
			<i>For >1,000 To 2,000, Deduct</i>	-26.41	
			<i>For >2,000 To 5,000, Deduct</i>	-40.07	
			<i>For >5,000, Deduct</i>	-65.59	
50 89 87 71-0013	LF		CALTRANS 710388 30" CURED-IN-PLACE PIPELINER	650.87	
			<i>For >10 To 25, Add</i>	252.11	
			<i>For >25 To 50, Add</i>	181.82	
			<i>For >50 To 100, Add</i>	90.91	
			<i>For >500 To 1,000, Deduct</i>	-15.20	
			<i>For >1,000 To 2,000, Deduct</i>	-29.41	
			<i>For >2,000 To 5,000, Deduct</i>	-44.61	
			<i>For >5,000, Deduct</i>	-73.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER	780.96	
For >10 To 25, Add	295.64	
For >25 To 50, Add	214.20	
For >50 To 100, Add	107.10	
For >500 To 1,000, Deduct	-18.07	
For >1,000 To 2,000, Deduct	-35.03	
For >2,000 To 5,000, Deduct	-53.10	
For >5,000, Deduct	-87.02	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER	912.55	
For >10 To 25, Add	342.93	
For >25 To 50, Add	248.84	
For >50 To 100, Add	124.42	
For >500 To 1,000, Deduct	-21.06	
For >1,000 To 2,000, Deduct	-40.84	
For >2,000 To 5,000, Deduct	-61.90	
For >5,000, Deduct	-101.46	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER	1,046.29	
For >10 To 25, Add	395.63	
For >25 To 50, Add	286.71	
For >50 To 100, Add	143.36	
For >500 To 1,000, Deduct	-24.20	
For >1,000 To 2,000, Deduct	-46.92	
For >2,000 To 5,000, Deduct	-71.12	
For >5,000, Deduct	-116.55	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER	1,369.28	
For >10 To 25, Add	510.96	
For >25 To 50, Add	371.29	
For >50 To 100, Add	185.65	
For >500 To 1,000, Deduct	-31.51	
For >1,000 To 2,000, Deduct	-61.14	
For >2,000 To 5,000, Deduct	-92.65	
For >5,000, Deduct	-151.92	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER	1,745.16	
For >10 To 25, Add	666.44	
For >25 To 50, Add	482.01	
For >50 To 100, Add	241.00	
For >500 To 1,000, Deduct	-40.53	
For >1,000 To 2,000, Deduct	-78.50	
For >2,000 To 5,000, Deduct	-119.03	
For >5,000, Deduct	-194.97	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	319.98	
For >500 To 1,000, Deduct	-1.57	
For >1,000 To 2,000, Deduct	-3.14	
For >2,000, Deduct	-6.28	
50 89 87 71-0020 LF CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER	362.36	
For >500 To 1,000, Deduct	-1.70	
For >1,000 To 2,000, Deduct	-3.40	
For >2,000, Deduct	-6.80	
50 89 87 71-0021 LF CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER	443.27	
For >500 To 1,000, Deduct	-1.85	
For >1,000 To 2,000, Deduct	-3.71	
For >2,000, Deduct	-7.42	
50 89 87 71-0022 LF CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	31.42	
50 89 87 71-0023 LF CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	47.20	
50 89 87 71-0024 LF CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	63.60	
50 89 87 71-0025 LF CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	78.92	
50 89 87 71-0026 LF CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	103.45	
50 89 87 71-0027 LF CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	124.16	
50 89 87 71-0028 LF CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	142.16	
50 89 87 71-0029 LF CALTRANS 710448 12" CEMENTITIOUS PIPELINER	74.78	
50 89 87 71-0030 LF CALTRANS 710450 15" CEMENTITIOUS PIPELINER	83.86	
50 89 87 71-0031 LF CALTRANS 710452 18" CEMENTITIOUS PIPELINER	89.34	
50 89 87 71-0032 LF CALTRANS 710454 21" CEMENTITIOUS PIPELINER	95.83	
50 89 87 71-0033 LF CALTRANS 710456 24" CEMENTITIOUS PIPELINER	102.14	
50 89 87 71-0034 LF CALTRANS 710458 27" CEMENTITIOUS PIPELINER	107.20	
50 89 87 71-0035 LF CALTRANS 710460 30" CEMENTITIOUS PIPELINER	112.09	
50 89 87 71-0036 LF CALTRANS 710462 36" CEMENTITIOUS PIPELINER	107.55	
50 89 87 71-0037 LF CALTRANS 710478 36" WELDED STEEL PIPELINER	717.27	
50 89 87 71-0038 LF CALTRANS 710480 42" WELDED STEEL PIPELINER	827.67	
50 89 87 71-0039 LF CALTRANS 710482 48" WELDED STEEL PIPELINER	941.13	
50 89 87 71-0040 LF CALTRANS 710484 54" WELDED STEEL PIPELINER	1,148.56	
50 89 87 71-0041 LF CALTRANS 710486 60" WELDED STEEL PIPELINER	1,242.64	
50 89 87 71-0042 LF CALTRANS 710488 66" WELDED STEEL PIPELINER	1,357.46	
50 89 87 71-0043 LF CALTRANS 710490 72" WELDED STEEL PIPELINER	1,621.09	
50 89 87 71-0044 LF CALTRANS 710491 78" WELDED STEEL PIPELINER	1,710.61	
50 89 87 71-0045 LF CALTRANS 710492 84" WELDED STEEL PIPELINER	1,811.10	
50 89 87 71-0046 LF CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	323.30	
50 89 87 71-0047 LF CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")	402.32	
50 89 87 71-0048 LF CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")	498.15	
50 89 87 71-0049 LF CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")	598.15	
50 89 87 71-0050 LF CALTRANS 710512 42" X 29" WELDED STEEL PIPELINER (ARCH)	796.28	
50 89 87 71-0051 LF CALTRANS 710514 49" X 33" WELDED STEEL PIPELINER (ARCH)	918.23	
50 89 87 71-0052 LF CALTRANS 710516 57" X 38" WELDED STEEL PIPELINER (ARCH)	1,043.76	
50 89 87 71-0053 LF CALTRANS 710518 64" X 43" WELDED STEEL PIPELINER (ARCH)	1,279.98	
50 89 87 71-0054 LF CALTRANS 710520 71" X 47" WELDED STEEL PIPELINER (ARCH)	1,382.71	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 89 87 71-0055	LF	CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)	1,815.10	
50 89 87 71-0056	LF	CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)	67.02	
50 89 87 71-0057	LF	CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)	84.25	
50 89 87 71-0058	LF	CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)	103.45	
50 89 87 71-0059	LF	CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)	119.37	
50 89 87 71-0060	LF	CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)	136.63	
50 89 87 71-0061	LF	CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)	156.01	
50 89 87 71-0062	LF	CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)	176.05	
50 89 87 71-0063	LF	CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)	204.04	
50 89 87 71-0064	LF	CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)	233.39	
50 89 87 71-0065	LF	CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)	258.04	
50 89 87 71-0066	LF	CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)	282.67	
50 89 87 71-0067	LF	CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)	323.31	
50 89 87 71-0068	LF	CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)	363.93	
50 89 87 71-0069	LF	CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)	468.78	
50 89 87 71-0070	LF	CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)	572.28	
50 89 87 71-0071	LF	CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)	604.36	
50 89 87 71-0072	LF	CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)	758.06	
50 89 87 71-0073	LF	CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)	80.08	
50 89 87 71-0074	LF	CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)	100.68	
50 89 87 71-0075	LF	CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)	123.96	
50 89 87 71-0076	LF	CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)	143.15	
50 89 87 71-0077	LF	CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)	164.02	
50 89 87 71-0078	LF	CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)	187.51	
50 89 87 71-0079	LF	CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)	211.82	
50 89 87 71-0080	LF	CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)	245.98	
50 89 87 71-0081	LF	CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)	281.84	
50 89 87 71-0082	LF	CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26)	311.87	
50 89 87 71-0083	LF	CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26)	341.87	
50 89 87 71-0084	LF	CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)	391.71	
50 89 87 71-0085	LF	CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)	441.55	
50 89 87 71-0086	LF	CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)	571.02	
50 89 87 71-0087	LF	CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)	698.82	
50 89 87 71-0088	LF	CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)	738.06	
50 89 87 71-0089	LF	CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26)	927.56	
50 89 87 71-0090	LF	CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21)	96.95	
50 89 87 71-0091	LF	CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21)	121.91	
50 89 87 71-0092	LF	CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21)	150.45	
50 89 87 71-0093	LF	CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21)	173.87	
50 89 87 71-0094	LF	CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21)	199.40	
50 89 87 71-0095	LF	CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21)	228.19	
50 89 87 71-0096	LF	CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21)	258.02	
50 89 87 71-0097	LF	CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21)	300.16	
50 89 87 71-0098	LF	CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21)	344.42	
50 89 87 71-0099	LF	CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21)	381.39	
50 89 87 71-0100	LF	CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21)	418.33	
50 89 87 71-0101	LF	CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	480.07	
50 89 87 71-0102	LF	CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	541.80	
50 89 87 71-0103	LF	CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	703.08	
50 89 87 71-0104	LF	CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	862.27	
50 89 87 71-0105	LF	CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	910.75	
50 89 87 71-0106	LF	CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	1,146.51	

50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)**50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)**

50 89 88 73-0001	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18".....	28.47	
		<i>For Up To 20, Add</i>	17.36	
		<i>For >20 To 50, Add</i>	9.85	
		<i>For >50 To 100, Add</i>	3.76	
		<i>For >500 To 1,000, Deduct</i>	-3.76	
		<i>For >1,000, Deduct</i>	-6.35	
50 89 88 73-0002	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24".....	32.61	
		<i>For Up To 20, Add</i>	19.36	
		<i>For >20 To 50, Add</i>	10.96	
		<i>For >50 To 100, Add</i>	4.20	
		<i>For >500 To 1,000, Deduct</i>	-4.20	
		<i>For >1,000, Deduct</i>	-7.11	
50 89 88 73-0003	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18".....	29.99	
		<i>For Up To 20, Add</i>	17.74	
		<i>For >20 To 50, Add</i>	10.05	
		<i>For >50 To 100, Add</i>	3.85	
		<i>For >500 To 1,000, Deduct</i>	-3.85	
		<i>For >1,000, Deduct</i>	-6.52	
50 89 88 73-0004	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24".....	34.65	
		<i>For Up To 20, Add</i>	19.77	
		<i>For >20 To 50, Add</i>	11.17	
		<i>For >50 To 100, Add</i>	4.30	
		<i>For >500 To 1,000, Deduct</i>	-4.30	
		<i>For >1,000, Deduct</i>	-7.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0005 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36"	48.11	
For Up To 20, Add	26.94	
For >20 To 50, Add	15.20	
For >50 To 100, Add	5.87	
For >500 To 1,000, Deduct	-5.87	
For >1,000, Deduct	-10.01	
50 89 88 73-0006 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24"	41.91	
For Up To 20, Add	22.81	
For >20 To 50, Add	12.85	
For >50 To 100, Add	4.98	
For >500 To 1,000, Deduct	-4.98	
For >1,000, Deduct	-8.52	
50 89 88 73-0007 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36"	58.92	
For Up To 20, Add	31.46	
For >20 To 50, Add	17.70	
For >50 To 100, Add	6.88	
For >500 To 1,000, Deduct	-6.88	
For >1,000, Deduct	-11.79	
50 89 88 73-0008 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18"	38.10	
For Up To 20, Add	25.95	
For >20 To 50, Add	14.52	
For >50 To 100, Add	5.72	
For >500 To 1,000, Deduct	-4.99	
For >1,000, Deduct	-8.44	
50 89 88 73-0009 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24"	46.17	
For Up To 20, Add	31.43	
For >20 To 50, Add	17.58	
For >50 To 100, Add	6.93	
For >500 To 1,000, Deduct	-6.03	
For >1,000, Deduct	-10.20	
50 89 88 73-0010 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30"	60.31	
For Up To 20, Add	41.08	
For >20 To 50, Add	22.98	
For >50 To 100, Add	9.05	
For >500 To 1,000, Deduct	-7.90	
For >1,000, Deduct	-13.36	
50 89 88 73-0011 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	63.51	
For Up To 20, Add	43.23	
For >20 To 50, Add	24.18	
For >50 To 100, Add	9.53	
For >500 To 1,000, Deduct	-8.30	
For >1,000, Deduct	-14.03	
50 89 88 73-0012 SF CALTRANS 730070 DETECTABLE WARNING SURFACE	55.82	
50 89 88 73-0013 CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	200.30	
For Up To 20, Add	14.19	
For >20 To 50, Add	5.32	
For >100 To 200, Deduct	-4.01	
For >200 To 400, Deduct	-8.01	
For >400, Deduct	-12.02	
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	9.89	
For Up To 100, Add	4.32	
For >100 To 500, Add	1.23	
For >1,000 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-1.60	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	11.56	
For Up To 100, Add	4.87	
For >100 To 500, Add	1.37	
For >1,000 To 5,000, Deduct	-0.79	
For >5,000, Deduct	-1.76	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	12.46	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	19.25	
For Up To 20, Add	13.48	
For >20 To 50, Add	7.70	
For >50 To 100, Add	2.89	
For >500 To 1,000, Deduct	-2.89	
For >1,000, Deduct	-4.81	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	104.09	
For Up To 100, Add	43.83	
For >100 To 500, Add	12.33	
For >1,000 To 5,000, Deduct	-7.12	
For >5,000, Deduct	-15.89	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER)	32.27	
For Up To 20, Add	22.59	
For >20 To 50, Add	12.91	
For >50 To 100, Add	4.84	
For >500 To 1,000, Deduct	-4.84	
For >1,000, Deduct	-8.07	

50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)

50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A)	613.21
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	239.29
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT)	5.89

50 Custom Standards And Assemblies
50 89 CALTRANS Custom Standards And Assemblies
50 89 80 CALTRANS Construction Performance Requirements



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 78-0004	SF		CALTRANS 780460 ANTI-GRAFFITI COATING	1.83	
			<i>For Up To 100, Add</i>	1.07	
			<i>For >100 To 250, Add</i>	0.52	
			<i>For >250 To 500, Add</i>	0.22	
50 89 88 78-0005	EA		CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	103.84	22.55
50 89 88 80 FENCES <small>(50 89 88)</small>					
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.					
50 89 88 80-0001	LF		CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	13.97	
50 89 88 80-0002	LF		CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	14.77	
50 89 88 80-0003	LF		CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	15.87	
50 89 88 80-0004	LF		CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	14.68	
50 89 88 80-0005	LF		CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	13.16	
50 89 88 80-0006	LF		CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	16.67	
50 89 88 80-0007	LF		CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	8.15	
50 89 88 80-0008	LF		CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	44.22	
			<i>For Up To 100, Add</i>	8.37	
			<i>For >100 To 250, Add</i>	3.08	
			<i>For >2,500 To 5,000, Deduct</i>	-1.54	
			<i>For >5,000, Deduct</i>	-3.08	
50 89 88 80-0009	LF		CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	42.86	
			<i>For Up To 100, Add</i>	8.14	
			<i>For >100 To 250, Add</i>	3.00	
			<i>For >2,500 To 5,000, Deduct</i>	-1.50	
			<i>For >5,000, Deduct</i>	-3.00	
50 89 88 80-0010	LF		CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	44.28	
			<i>For Up To 100, Add</i>	8.38	
			<i>For >100 To 250, Add</i>	3.08	
			<i>For >2,500 To 5,000, Deduct</i>	-1.54	
			<i>For >5,000, Deduct</i>	-3.08	
50 89 88 80-0011	LF		CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	45.84	
			<i>For Up To 100, Add</i>	8.61	
			<i>For >100 To 250, Add</i>	3.16	
			<i>For >2,500 To 5,000, Deduct</i>	-1.58	
			<i>For >5,000, Deduct</i>	-3.16	
50 89 88 80-0012	LF		CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5)	47.60	
			<i>For Up To 100, Add</i>	8.93	
			<i>For >100 To 250, Add</i>	3.28	
			<i>For >2,500 To 5,000, Deduct</i>	-1.64	
			<i>For >5,000, Deduct</i>	-3.28	
50 89 88 80-0013	LF		CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	49.57	
			<i>For Up To 100, Add</i>	9.23	
			<i>For >100 To 250, Add</i>	3.37	
			<i>For >2,500 To 5,000, Deduct</i>	-1.69	
			<i>For >5,000, Deduct</i>	-3.37	
50 89 88 80-0014	LF		CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6)	51.56	
			<i>For Up To 100, Add</i>	9.64	
			<i>For >100 To 250, Add</i>	3.53	
			<i>For >2,500 To 5,000, Deduct</i>	-1.77	
			<i>For >5,000, Deduct</i>	-3.53	
50 89 88 80-0015	LF		CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	55.57	
			<i>For Up To 100, Add</i>	10.24	
			<i>For >100 To 250, Add</i>	3.73	
			<i>For >2,500 To 5,000, Deduct</i>	-1.87	
			<i>For >5,000, Deduct</i>	-3.73	
50 89 88 80-0016	LF		CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM)	52.76	
			<i>For Up To 100, Add</i>	9.82	
			<i>For >100 To 250, Add</i>	3.59	
			<i>For >2,500 To 5,000, Deduct</i>	-1.80	
			<i>For >5,000, Deduct</i>	-3.59	
50 89 88 80-0017	LF		CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED)	112.86	
			<i>For Up To 100, Add</i>	19.31	
			<i>For >100 To 250, Add</i>	6.84	
			<i>For >2,500 To 5,000, Deduct</i>	-3.42	
			<i>For >5,000, Deduct</i>	-6.84	
50 89 88 80-0018	LF		CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8)	60.69	
			<i>For Up To 100, Add</i>	11.21	
			<i>For >100 To 250, Add</i>	4.09	
			<i>For >2,500 To 5,000, Deduct</i>	-2.04	
			<i>For >5,000, Deduct</i>	-4.09	
50 89 88 80-0019	EA		CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4)	458.47	
50 89 88 80-0020	EA		CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4)	542.82	
50 89 88 80-0021	EA		CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4)	638.34	
50 89 88 80-0022	EA		CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4)	1,550.44	
50 89 88 80-0023	EA		CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5)	969.03	
50 89 88 80-0024	EA		CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5)	2,194.90	
50 89 88 80-0025	EA		CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5)	2,533.13	
50 89 88 80-0026	EA		CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5)	2,831.16	
50 89 88 80-0027	EA		CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6)	467.02	
50 89 88 80-0028	EA		CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6)	592.91	
50 89 88 80-0029	EA		CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD)	281.65	
50 89 88 80-0030	EA		CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	605.13	
50 89 88 80-0031	EA		CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED)	630.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6).....	694.56	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6).....	806.40	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6).....	1,035.12	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	1,048.44	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6).....	1,147.68	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6).....	1,703.71	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6).....	2,021.45	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6).....	2,400.34	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6).....	2,723.57	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6).....	3,055.90	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6).....	3,392.73	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6).....	4,077.35	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7).....	3,224.87	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM).....	61.89	
For Up To 100, Add	11.39	
For >100 To 250, Add	4.15	
For >2,500 To 5,000, Deduct	-2.07	
For >5,000, Deduct	-4.15	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8).....	732.62	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	744.84	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8).....	981.32	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	1,268.72	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD).....	1,562.70	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE.....	6.44	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.64	
For >2,500 To 5,000, Deduct	-0.32	
For >5,000, Deduct	-0.64	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE.....	295.10	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE.....	1,440.07	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE.....	30.46	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)

50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER.....	2.74	
For >100, Deduct	-0.27	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE).....	7.31	2.74
For >100, Deduct	-0.73	
For >100, Deduct	-0.73	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE).....	8.45	2.74
For >100, Deduct	-0.85	
For >100, Deduct	-0.85	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED).....	78.89	32.99

50 89 89 82 SIGNS AND MARKERS (50 89 89)

50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER.....	201.65	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	20.10	38.25
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED).....	20.81	24.75

50 89 89 83 RAILINGS AND BARRIERS (50 89 89)

50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST).....	70.53	10.82
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST).....	141.35	16.21
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST).....	74.78	2.97
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL.....	10.82	

50 89 89 84 MARKINGS (50 89 89)

50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE.....	2.13	
For Up To 5,000 LF, Add	0.43	
For >25,000 LF, Deduct	-0.32	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE.....	2.83	
For Up To 5,000 LF, Add	0.57	
For >25,000 LF, Deduct	-0.42	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4).....	1.27	
For Up To 5,000 LF, Add	0.25	
For >25,000 LF, Deduct	-0.19	
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	1.10	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING.....	9.83	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING.....	9.83	
50 89 89 84-0007 LF CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1).....	0.72	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.83	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.12	

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies

50 89 80 CALTRANS Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.98	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	1.12	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	1.56	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.29	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.19	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	1.17	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.18	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	1.43	
For Up To 5,000 LF, Add	0.29	
For >25,000 LF, Deduct	-0.21	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE BROKEN 12-3).....	0.67	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.58	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.73	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.51	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.73	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.87	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.73	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.90	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	9.45	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS.....	6.77	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
50 89 89 84-0026 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.43	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.06	
50 89 89 84-0027 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.55	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0028 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.66	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0029 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	0.84	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
50 89 89 84-0030 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	1.09	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.16	
50 89 89 84-0031 SF CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	6.62	
50 89 89 84-0032 SF CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	10.06	
50 89 89 84-0033 LF CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE.....	2.24	
For Up To 250, Add	1.12	
For >250 To 1,000, Add	0.56	
For >5,000 To 10,000, Deduct	-0.34	
For >10,000 To 25,000, Deduct	-0.56	
For >25,000 To 50,000, Deduct	-0.78	
For >50,000, Deduct	-0.90	
50 89 89 84-0034 SF CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	3.85	
For Up To 250, Add	1.93	
For >250 To 1,000, Add	0.96	
For >5,000 To 10,000, Deduct	-0.58	
For >10,000 To 25,000, Deduct	-0.96	
For >25,000 To 50,000, Deduct	-1.35	
For >50,000, Deduct	-1.54	
50 89 89 84-0035 LF CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE.....	3.39	
For Up To 250, Add	1.70	
For >250 To 1,000, Add	0.85	
For >5,000 To 10,000, Deduct	-0.51	
For >10,000 To 25,000, Deduct	-0.85	
For >25,000 To 50,000, Deduct	-1.19	
For >50,000, Deduct	-1.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0036 SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING	4.91	
<i>For Up To 250, Add</i>	2.46	
<i>For >250 To 1,000, Add</i>	1.23	
<i>For >5,000 To 10,000, Deduct</i>	-0.74	
<i>For >10,000 To 25,000, Deduct</i>	-1.23	
<i>For >25,000 To 50,000, Deduct</i>	-1.72	
<i>For >50,000, Deduct</i>	-1.96	

END OF SECTION 50

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies

50 89 80 CALTRANS Construction Performance Requirements



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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